



NMP4-CT-2004-500101

SANDiE

*Self-Assembled semiconductor Nanostructures
for new Devices in photonics and Electronics*

Instrument: Network of Excellence

Thematic Priority: Nanotechnologies, Materials, New Processes

**Final activity report
(July 2004 – June 2008)**

Period covered: from 2004-07-01 to 2008-06-30

Date of preparation: 2008-06-30

Start date of project: 2004-07-01

Duration: 48 months

Project coordinator: Prof. Dr. Marius Grundmann
Project coordinator organisation: Universität Leipzig

Revision 1

1. Project execution

The Network

The Network of Excellence SANDiE within the 6th framework programme started on July 1st 2004 and was funded by the European Commission until June 30th 2008. The acronym SANDiE stands for "Self-Assembled semiconductor Nanostructures for new Devices in photonics and Electronics". Thirty-four institutions from Portugal to Russia, among them five industrial companies, have established a close partnership to integrate their human resources, their facilities and their research agenda in the field of self-assembled semiconductor nanostructures on a European scale. The Network of Excellence is dedicated to the formation of an integrated and cohesive approach to research and knowledge in the field of self-assembled semiconductor nanostructures. The Network supports spreading of research results and excellence into the scientific community. In the fourth year of its existence the Network has again successfully reached all of its integration goals. Publicly available information can be found on the SANDiE website www.sandie.org.

The scientific scope

Most prominent on the research agenda are self-assembled semiconductor quantum dots. The self-assembly process allows fabrication of structures in the 10 nm size range during epitaxy without artificial patterning. These nanostructures can then be cemented in position by the deposition of further layers of the substrate material. By varying the semiconductor materials involved, the growth conditions, and by vertically stacking layers of nanostructures, a rich variety of novel materials can be produced for the study of the fundamental properties of strongly confined systems, and for the development of advanced electronic and photonic devices.

The scientific network activities are focussed into five topical areas. The involved Network partners are leaders in their respective fields, as detailed in the following. These research areas have been constantly discussed and updated. In year 2 road maps have been developed for the respective work packages and updated in year 3. By assembly decision, area 4 has been split into two work packages effective for the third year of the Network

Area 1: Long-wavelength (1.3 μm and 1.55 μm emission wavelength) quantum dots

Such quantum dots are attractive for fiber-based (data) communication devices such as lasers, amplifiers and detectors. For the most advanced long-wavelength structures application relevant properties such as their low chirp, bit error rates of transmission experiments and industrial feasibility of fabrication of large area homogeneous arrays are determined in close cooperation with industry. The area interacts with area 2 to merge long wavelength properties with single photon devices.

Area 2: Single photon devices

Single photons with designed physical properties such as controlled quantum statistics and entanglement of emitted pairs of photons offer novel quantum mechanically motivated communication schemes such as quantum cryptography and secure communication. Single quantum dots are the prime candidate for electrically driven solid-state light sources and are investigated also as detectors for such photons. Several SANDiE Partners, including an industrial company, are leading in this field and have established a close cooperation.

Area 3: Inter-sublevel optical transitions

Such transitions occur between various confined states and confined states and the continuum. Spectrally they have ultra-long wavelength ($\sim 20 \mu\text{m}$), important e.g. for spectroscopy. Various approaches to novel mid infrared lasers are explored by the leading groups in Europe.

Area 4: Novel self-assembled nanostructures

The Network and the respective partners have a leading role within Europe with regard to novel self-assembled semiconductor nanostructures based on whisker-like growth in various material systems such as SiGe, III-V compounds (GaInAs, GaInP) and II-VI compounds (MgZnO). Such structures are promising for novel light emitters and one-dimensional electronics. Whisker growth allows defect-free epitaxy on dissimilar substrates such as GaAs/Si and ZnO/Al₂O₃. Also several other material systems and approaches to the fabrication of self-assembled semiconductor nanostructures are investigated on an exploratory basis. Two workpackages are devoted now to this area, focussing on 1D structures and novel materials, respectively.

Area 5: Theoretical simulation

The theoretical simulation of growth, electronic and optical properties, electron-phonon coupling and many-body effects and the comparison with experimental data, down to the level of imaging of individual wave-functions, are essential for a broad-based understanding, design and control of self-assembled semiconductor nanostructures. The Network unites the most comprehensive approach to this topic in Europe.

The resources and the approach of the Network reach from the study of fundamental phenomena to their exploitation for the design of novel materials, invention and analysis of novel growth processes, and for the use of the self-assembled nanostructures in advanced electronic, photonic and optoelectronic devices. Significant scientific progress was made by the partners in the last year in all topical areas. The Network helped to spread the knowledge among the partners, into the scientific community and into the public. A very large increase in joint publications indicates the harvesting of the integration efforts of the previous years.

The management

The Network is coordinated by Universität Leipzig (Prof. Grundmann) where the Network office has been established. The office is staffed with the scientific Network officer (Dr. Weber) and a secretary (Mrs. Wendisch), who oversee and run the day-to-day operations, organize events and prepare necessary documentation. The office has set up and maintains the website www.sandie.org that provides information to the public about the Network itself and events organized by the Network, e.g. workshops, training courses or Girl's days. The website also contains the intranet. The intranet is the backbone of internal communication and the electronic dissemination of information within the network. The Network is governed by the Executive Committee that has six distinguished members. Important decisions are voted on in the Assembly where each partner is represented with one vote. The Assembly convenes twice a year. The cooperation within the Network has been formally agreed by the partners in a Consortium Agreement that also regulates intellectual property issues. After establishing according procedures, the Network welcomes the accession of five new Partners (of which are four from the New Member States) and another major industrial company.

In order to sustain the very successful networking and strong collaborations between the Partners after the end of the European Commission funding period, the partners have agreed

on a new Consortium Agreement. This Agreement was enacted in June 2008, setting the base for a successful continuation of the Network goals after the end of EC funding.

The past four years

The Network has set itself, in negotiation with the European Commission, quantifiable goals with respect to the achievement of the integration of people, facilities, research and training events. The level of integration in each of these areas is measured numerically from a variety of indicators all of which are above target for the third year. The Network has established itself as a stable structure with well-defined decision making processes and a lively and amicable working atmosphere. Several joint projects and investigations have been performed and progress in existing efforts has been made that would not have emerged without the Network. It has expanded carefully by three Partners, well integrated now, in the second year.

The Network continues its joint programme of workshops and technical training courses that is to a large extent open to the public and can be found on our website. An increasing number of PhD theses within the Network are jointly supervised by two partners. The students perform their research in two or more facilities of the Network thus increasing their experience with complementary methods and using the infrastructure in the European Research Area efficiently.

The scientific success of the Partners can be seen in the coordination and the participation in numerous national and several European projects, such as IP's NODE, ZODIAC and the STReP's NATAL, TRIUMPH and NANDOS. These projects benefit from the integration of partners within SANDiE.

Progress in the five topical areas has been manyfold and is briefly summarized in the following:

Area 1: Long-wavelength (1.3 μm and 1.55 μm emission wavelength) quantum dots

SAN for long wavelength emission have been investigated mostly on GaAs and InP semiconducting substrates. Three approaches, a metamorphic buffer layer, capping with GaAsSb layers and a strain-engineered InGaAs layer were all successful in achieving quantum dot emission around 1.55 μm . Record results have been demonstrated in the field of mode locked lasers with subpicosecond pulse generation at repetition rates of 130 GHz (InAs/InP lasers) and 80 GHz (InAs/GaAs lasers). Temperature independent Linewidth Enhancement Factor up to 85°C has been reported. Over 72 journal and invited papers have been published.

Area 2: Single photon devices

The control of the exciton fine structure splitting of single quantum dots for the generation of entangled photons, the preparation of potential quantum bit states by electron or nuclear spin polarisation of single quantum dots by optical pumping and the generation of single photons at telecom wavelengths from electrically driven sources has been achieved.

Fruitful tight collaborations and exchange of ideas within the workpackage partners resulted in the proof that the exciton fine structure splitting (FSS) can be permanently reduced to zero by post-growth thermal annealing of the quantum dots, or actively tuned to zero by the application of in-plane external electric or magnetic fields. The understanding of the FSS have made it possible to grow naturally zero split quantum dots, which have been used successfully in the development of an entangled photon pair source with the highest recorded fidelity of 76%. A bi-photon interferometer has been constructed, which has allowed the probing of a

variety of properties of the entangled photon source. All this results have positioned the SANDiE network of excellence in a world leading position in the control and understanding of FSS.

Work on electrically excited single photon emission has been continued. An electrically driven single photon emitter at ~ 900 nm has been realized based on an oxide aperture that constricts the current flow in a way that only one single QD is pumped. Major improvements have been achieved on electrically excited single photon emission at ~ 1.3 μm . The measured degree of suppression of multiphoton emission from a planar cavity single photon LED has been improved from $g^{(2)}(0) \sim 0.4$ to ~ 0.28 before correction for dark counts, corresponding to $g^{(2)}(0) \sim 0.19$ for the source itself.

Area 3: Inter-sublevel optical transitions

Cooperation of various partners led to the following achievements: The enhanced electron-phonon coupling for quantum dots charged with two electrons has been evidenced. Also intervalence band spectroscopy was performed on quantum dot infrared photodetectors. The intersublevel absorption of a single quantum dot in the mid-infrared has been observed. Design and fabrication of two dimensional photonic crystals in order to enhance the interaction between intersublevel transitions and electromagnetic field has been achieved. The ultrafast dynamics and capture in doped quantum dots following an interband optical pumping has been investigated using time-resolved electro-optic sampling. The experimental studies were performed with the equipments available within the Sandie network or in collaboration with external partners (free-electron laser facility of Felix, CLIO, Rossendorf). Interaction with theory groups external to SANDiE network did provide additional support to interpret the dynamic experimental data.

Area 4: Novel self-assembled nanostructures

This area is focussed on one-dimensional nanostructures and novel materials. Growth and characterization of one-dimensional (linear) SAN and built-in nanostructures has emerged as a specific research area with many partners involved. Joint projects have been executed in the field of experimental research (growth and characterization of nanowires) as well as theoretical modeling of the growth process. In this area, also novel materials (other than the comparably well known GaAs/InGaAs), novel preparation methods and analysis methods for self-assembled nanostructures are investigated in an exploratory fashion.

Area 5: Theoretical simulation

The main objective is the calculation of the electronic structure of quantum dots on the basis of geometrical and structural data. The focus was on further refinement of the methods, in particular joint research efforts to integrate the effects of piezoelectricity and of an external magnetic field into the simulation tools. In the area of simulation of SAN growth, the attention has largely shifted to nanowires, as indicated by the establishment of WP15. Thus the theoretical analysis of the growth process was extended to nanowires. The efforts were focused on the question how the conditions of nanowire growth affect the morphology of the wires. This includes their internal atomic structure (zincblende or wurtzite), as well as the structure of their side facets.

Conclusion

The Network of Excellence SANDiE has continued its fruitful and successful course in the fourth year. The pace to the envisioned high level of integration has accelerated and the set goals have been overfulfilled. We are grateful to the EC for their support.

List of SANDiE Partners

The SANDiE Network of Excellence is formed by 34 Partners that are located in 15 countries across Europe and North America. Among the Partners are universities, research institutes and industrial companies.

- P01 Universität Leipzig, Germany (Coordinator)
- P02 Katholieke Universiteit Leuven, Belgium
- P03 Universiteit Antwerpen, Belgium
- P04 Technische Universität Berlin, Germany
- P05 Max-Planck-Institut für Mikrostrukturphysik, Halle, Germany
- P06 Lunds Universitet, Sweden
- P07 Technische Universiteit Eindhoven, The Netherlands
- P08 The University of Sheffield, United Kingdom
- P09 University Nottingham, United Kingdom
- P10 Heriot-Watt University, Edinburgh, United Kingdom
- P11 CNRS, Laboratoire de Photonique et de Nanostructures, Marcoussis, France
- P12 Institut National des Sciences Appliquées de Rennes (INSA-LENS), France
- P13 Université Paris XI, Orsay, France
- P14 Consiglio Nazionale delle Ricerche (CNR-IMEM, Parma), Italy
- P15 Universidade de Aveiro, Portugal
- P16 Universitat de València, Spain
- P17 Universidad de Cádiz, Spain
- P18 Johannes Kepler Universität Linz, Austria
- P19 Bookham Technology plc, United Kingdom
- P20 Universität Dortmund, Germany
- P21 AIXTRON AG, Germany
- P22 Consejo Superior de Investigaciones Científicas (CSIC, Madrid), Spain
- P23 Max-Planck-Institut für Festkörperforschung, Stuttgart, Germany
- P24 Zentrum für Mikro- und Nanostrukturen, TU Wien, Austria
- P25 Toshiba Research Europe Limited, United Kingdom
- P26 A. F. Ioffe Physico-Technical Institute, St. Petersburg, Russia
- P27 Fritz-Haber-Institut der MPG, Berlin, Germany
- P28 Innolume GmbH, Germany
- P29 Lancaster University (since July 2006)
- A01 Institute of Physics, Polish Academy of Sciences, Warsaw, Poland (since Jan. 2006)
- A02 Charles University, Prague, Czech Republic (since Jan. 2006)
- A03 Intel Corporation, United States of America (since Jan. 2006)
- A04 Semiconductor Physics Institute Vilnius, Lithuania (since Feb. 2008)
- A05 AGH University of Science and Technology, Krakow, Poland (since March 2008)

2. Dissemination and use

List of all publications and presentations

- **ID:** 01449

Authors: A. Marent, M. Geller, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: A novel nonvolatile memory based on self-organized quantum dots
(Planned) journal: Microelectronics Journal
(Planned) date of publication 2008
Research paper in international journal? (y/n): y
Status: in press
Submitted to Network Office: 2008-08-13

- **ID:** 01448

Authors: A. Mutig, G. Fiol, P. Moser, F. Hopfer, M. Kuntz, V.A. Shchukin, N.N. Ledentsov, D. Bimberg, S.S. Mikhlin, I.L. Krestnikov, D.A. Livshits, and A.R. Kovsh
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg), P28 (Innolume)
Title: 120 °C 20 Gbit/s operation on 980 nm single mode VCSEL (talk)
(Planned) event: 21st Int. Semiconductor Laser Conference, Sorrento, Italy, September 14-18, 2008
(Planned) date of presentation 2008-09-15
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-08-13

- **ID:** 01447

Authors: L.Ya. Karachinsky, I.I. Novikov, G. Fiol, M. Kuntz, Yu.M. Shernyakov, N. Yu. Gordeev, M.V. Maximov, M.B. Lifshits, V.A. Shchukin, N.N. Ledentsov, S.S. Mikhlin, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg), P28 (Innolume)
Title: High-power wavelength stabilized laser based on the tilted cavity concept (invited talk)
(Planned) event: 16th Int. Symp. "Nanostructures: Physics and Technology", Vladivostok, Russia, July 14-19, 2008
(Planned) date of presentation 2008-07-14 to 2008-07-19
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-08-13

- **ID:** 01446

Authors: J. Kim, C. Meuer, D. Bimberg, G. Eisenstein
Authors - SANDiE partners: P04 (TU Berlin)
Title: Role of carrier reservoirs on the slow phase recovery of quantum dot semiconductor optical amplifiers (talk)
(Planned) event: Int. Workshop on Semiconductor QD Devices and Applications, Rennes, France, July 7-8, 2008
(Planned) date of presentation 2008-08-07
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-08-13

- **ID:** 01445

Authors: F. Hopfer, D. Bimberg, V.A. Shchukin, N.N. Ledentsov
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)
Title: High-Speed Directly and Indirectly Modulated VCSELS (invited talk)
(Planned) event: 20th Indium Phosphide and Related Materials Conference, Versailles, France, May 25-29, 2008
(Planned) date of presentation 2008-05-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-08-13

- **ID:** 01444

Authors: C. Meuer, M. Laemmlin, S. Liebich, J. Kim and D. Bimberg, A. Capua and G. Eisenstein, R. Bonk, T. Vallaitis and J. Leuthold
Authors - SANDiE partners: P04 (TU Berlin)
Title: High Speed Cross Gain Modulation using Quantum Dot Semiconductor Optical Amplifiers at 1.3 μm
(Planned) event: The Conference on Lasers and Electro-Optics (CLEO), the Quantum Electronics and Laser Science Conference (QELS), San Jose, United States, May 4-9, 2008
(Planned) date of presentation 2008-05-06
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-08-13

- **ID:** 01443

Authors: M. Winkelkemper, A. Hoffmann, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Control of the Linear Polarization of Excitonic Emission from Group III-nitride Quantum Dots (poster)
(Planned) event: 8th International Conference on Physics of Light-Matter Coupling in Nanostructures (PLMCN8), Tokyo, Japan, 7-11, April 2008
(Planned) date of presentation 2008-04-09
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-08-13

- **ID:** 01442

Authors: Dieter Bimberg, Sven Rodt
Authors - SANDiE partners: P04 (TU Berlin)

Title: Flying Q-bits from single quantum dots for future quantum cryptography (invited talk)
(Planned) event: 8th International Conference on Physics of Light-Matter Coupling in Nanostructures (PLMCN8), Tokyo, Japan, 7-11, April 2008
(Planned) date of presentation: 2008-04-10
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-08-13
• **ID:** 01441
Authors: R. Timm, A. Lenz, H. Eisele, L. Ivanova, I. Farrer, D. A. Ritchie, G. Balakrishnan, D. L. Huffaker, and M. Dähne
Authors - SANDiE partners: P04 (TU Berlin)
Title: Influence of group-V exchange processes and Sb segregation on the interface quality of GaSb/GaAs quantum wells (poster)
(Planned) event: 35th Conference on the Physics and Chemistry of Semiconductor Interfaces, January 13-17, 2008
(Planned) date of presentation: 2008-01-13 to 2008-01-17
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-08-13
• **ID:** 01440
Authors: R. Timm, A. Lenz, L. Ivanova, H. Eisele, G. Balakrishnan, D. L. Huffaker, I. Farrer, D. A. Ritchie, and M. Dähne
Authors - SANDiE partners: P04 (TU Berlin)
Title: Formation, atomic structure, and electronic properties of GaSb/GaAs quantum rings (talk)
(Planned) event: 35th Conference on the Physics and Chemistry of Semiconductor Interfaces, January 13-17, 2008
(Planned) date of presentation: 2008-01-16
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-08-13
• **ID:** 01439
Authors: A. Lenz, R. Timm, H. Eisele, L. Ivanova, R.L. Sellin, H.-Y. Liu, M. Hopkinson, U.W. Pohl, D. Bimberg, and M. Dähne
Authors - SANDiE partners: P04 (TU Berlin), P08 (Uni Sheffield)
Title: Limits of quantum dot growth: Nanovoids in the In(Ga)As/GaAs system (talk)
(Planned) event: 35th Conference on the Physics and Chemistry of Semiconductor Interfaces, January 13-17, 2008
(Planned) date of presentation: 2008-01-15
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-08-13
• **ID:** 01438
Authors: L. Ya. Karachinsky, I. I. Novikov, G. Fiol, M. Kuntz, Yu. M. Shernyakov, N. Yu. Gordeev, M. V. Maximov, M. B. Lifshits, T. Kettler, K. Posilovic, V. A. Shchukina, N. N. Ledentsov, S. S. Mikhrin, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg), P28 (INNOLUME)
Title: Tilted cavity concept for the high-power wavelength stabilized diode lasers (invited talk)
(Planned) journal: Proceedings of SPIE - Proceedings of the Photonics Prague 2008 conference
(Planned) date of publication: 2008
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2008-07-28
• **ID:** 01437
Authors: J. Kim, M. Laemmlin, C. Meuer, S. Liebich, D. Bimberg, and G. Eisenstein
Authors - SANDiE partners: P04 (TU Berlin)
Title: Small-signal cross-gain modulation and crosstalk characteristics of quantum-dot semiconductor optical amplifiers at 1.3 μm
(Planned) journal: Phys. Stat. Sol.
(Planned) date of publication: 2008
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2008-07-28
• **ID:** 01436
Authors: Kim, M. Laemmlin, C. Meuer, D. Bimberg, and G. Eisenstein
Authors - SANDiE partners: P04 (TU Berlin)
Title: Static gain saturation model of quantum-dot semiconductor optical amplifiers
(Planned) journal: IEEE Journal of Quantum Electronics, vol. 44, no. 7, pp. 658-666, 2008
(Planned) date of publication: 2008-07-07
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-07-28
• **ID:** 01435
Authors: Christian Meuer, Jungho Kim, Matthias Laemmlin, Sven Liebich, Amir Capua, Gadi Eisenstein, Alexey R. Kovsh, Sergey S. Mikhrin, Igor L. Krestnikov and Dieter Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg), P28 (INNOLUME)
Title: Static gain saturation in quantum dot semiconductor optical amplifiers
(Planned) journal: Optics Express
(Planned) date of publication: 2008-05-22
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-07-28
• **ID:** 01434
Authors: F. Hopfer, M. Kuntz, M. Lämmlin, G. Fiol, N. N. Ledentsov, A. R. Kovsh, S. S. Mikrin, I. Kaiander, V. Haisler, A. Lochmann, A. Mutig, C. Schubert, A. Umbach, V. M. Ustinov, U. W. Pohl and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg), P28 (INNOLUME)
Title: Quantum dot photonics: edge emitter, amplifier and VCSEL

(Planned) journal: Proc. of SPIE Vol. 7009 700902-1
(Planned) date of publication: 2008
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2008-07-28
 • **ID:** 01433
Authors: M. Geller, A. Marent, T. Nowozin, D. Feise, K. Pötschke, N. Akçay, N. Öncan, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Towards an universal memory based on self-organized quantum dots
(Planned) journal: Physica E, Vol. 40, Issue 6 (2008) 1811–1814
(Planned) date of publication: 2007-09-29 (online)
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-07-28
 • **ID:** 01432
Authors: M. Geller, A. Marent, T. Nowozin, D. Bimberg, N. Akçay, and N. Öncan
Authors - SANDiE partners: P04 (TU Berlin)
Title: A write time of 6 ns for quantum dot–based memory structures
(Planned) journal: Appl.Phys. Lett. 92, 92108
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-07-28
 • **ID:** 01431
Authors: J. Kim, M. Laemmlin, C. Meuer, S. Liebich, D. Bimberg, and G. Eisenstein
Authors - SANDiE partners: P04 (TU Berlin)
Title: Enhancing Small-Signal Cross-Gain Modulation of Quantum-Dot Optical Amplifiers by Injecting Carriers to Excited States
(Planned) event: Optical Fiber Communication Conference and Exposition and The National Fiber Optic Engineers Conference (OFC/NFOEC 2008, San José, USA)
(Planned) date of presentation: 2008-02-26
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-07-28
 • **ID:** 01430
Authors: J. W. Tomm, V.G. Talalaev
Authors - SANDiE partners: P05 (MPI Halle)
Title: Carrier dynamics in active-region materials for semiconductor laser applications
(Planned) event: Laser Optics Berlin Convention (Berlin, Germany, March 17-19, 2008)
(Planned) date of presentation: 2008
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-07-15
 • **ID:** 01429
Authors: Ziegler M., Talalaev V., Tomm J.W., Elsaesser T., Ressel P., Sumpf B., Erbert G.
Authors - SANDiE partners: P05 (MPI Halle)
Title: Surface recombination and facet heating in high-power diode lasers
(Planned) journal: Appl. Phys. Lett., 92, 203506 (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-07-15
 • **ID:** 01428
Authors: Talalaev V.G., Novikov B.V., Sokolov A.S., Strom I.V., Tomm J.W., Zakharov N.D., Werner P., Cirlin G.E., Tonkikh A.A.
Authors - SANDiE partners: P05 (MPI Halle)
Title: Resonances related to an array of InAs quantum dots and controlled by an external electric field
(Planned) journal: Semiconductors 41 (2), 197-204 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-07-15
 • **ID:** 01427
Authors: C C Büttner, N D Zakharov, E Pippel, U Goesele and P Werner
Authors - SANDiE partners: P05 (MPI Halle)
Title: Gold-enhanced oxidation of MBE-grown silicon nanowires
(Planned) journal: Semicond. Sci. Technol. 23, 075040 (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-07-15
 • **ID:** 01426
Authors: Smirnov M.B., Talalaev V.G., Novikov B.V., Sarangov S.V., Tsyrlin G.E., Zakharov N.D.
Authors - SANDiE partners: P05 (MPI Halle)
Title: Numerical simulation of the temperature dependence of the photoluminescence spectra of InAs/GaAs quantum dots
(Planned) journal: phys. stat. sol. 49 (6), 1184-1190 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2008-07-15
• **ID:** 01425
Authors: Talalaev V.G., Novikov B.V., Sokolov A.S., Strom I.V., Tomm J.W., Zakharov N.D., Werner P., Cirlin G.E., Tonkikh A.A.
Authors - SANDiE partners: P05 (MPI Halle)
Title: Resonances related to an array of InAs quantum dots and controlled by an external electric field
(Planned) journal: Semiconductors 41 (2), 197-204 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-07-15
• **ID:** 01424
Authors: Smirnova, M. B., Talalaev, V. G., Novikov, B. V., Sarangov, S. V., Tsyrlin, G. E., Zakharov, N. D
Authors - SANDiE partners: P05 (MPI Halle)
Title: Numerical simulation of the temperature dependence of the photoluminescence spectra of InAs/GaAs quantum dots
(Planned) journal: PHYSICS OF THE SOLID STATE 49, 1184-1190 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-07-15
• **ID:** 01423
Authors: Ledentsov, N. N., Bimberg, D., Hopfer, F., Mutig, A., Shchukin, V. A., Savel'ev, A. V., Fiol, G., Stock, E., Eisele, H., Daehne, M., Gerthsen, D., Fischer, U., Litvinov, D., Rosenauer, A., Mikhrin, S. S., Kovsh, A. R., Zakharov, N. D., Werner, P.
Authors - SANDiE partners: P04 (TU Berlin), P05 (MPI Halle)
Title: Submonolayer quantum dots for high speed surface emitting lasers
(Planned) journal: NANOSCALE RESEARCH LETTERS 2, 417-429 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-07-15
• **ID:** 01422
Authors: Sobolev, M. M., Cirlin, G. E., Tonkikh, A. A., Zakharov, N. D.
Authors - SANDiE partners: P05 (MPI Halle), P15 (Uni Aveiro), P26 (Ioffe)
Title: Wannier-Stark effect in Ge/Si quantum dot superlattices
(Planned) journal: SEMICONDUCTORS 42, 305-309 (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-07-15
• **ID:** 01421
Authors: Oh, Sang Ho, van Benthem, Klaus, Molina, Sergio I., Borisevich, Albina Y., Luo, Weidong, Werner, Peter, Zakharov, Nikolai D., Kurnar, Dhananjay, Pantelides, Sokrates T., Pennycook, Stephen
Authors - SANDiE partners: P05 (MPI Halle)
Title: Point defect configurations of supersaturated Au atoms inside Si nanowires
(Planned) journal: Nano Lett 8, 1016-1019 (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-07-15
• **ID:** 01420
Authors: Naumova, O. V., Nastaushev, Yu V, Svitashva, S. N., Sokolov, L. V., Zakharov, N. D., Gavrilova, T. A., Dultsev, F. N, Aseev, A. L.
Authors - SANDiE partners: P05 (MPI Halle)
Title: Molecular-beam epitaxy-grown Si whisker structures: morphological, optical and electrical properties
(Planned) journal: Nanotechnology 19, 225708 (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-07-15
• **ID:** 01419
Authors: J.C. Rimada, M. Prezioso, L. Nasi, E. Gombia, R. Mosca, G. Trevisi, L. Seravalli, P. Frigeri, C. Bocchi and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Electrical and structural characterization of InAs/InGaAs quantum dot structures
(Planned) journal: Mat. Sci. Engineering B
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2008-07-11
• **ID:** 01418
Authors: J.C. Rimada, M. Prezioso, L. Nasi, E. Gombia, R. Mosca, G. Trevisi, L. Seravalli, P. Frigeri, C. Bocchi and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Electrical and structural characterization of InAs/InGaAs quantum dot structures
(Planned) event: 9th International Workshop on Expert Evaluation & Control of Compound Semiconductor Materials & Technologies, Lodz, 1st-4th June 2008
(Planned) date of presentation: 2008-06-01 to 2008-06-04
Research paper in international journal? (y/n): n

Status: presented
Submitted to Network Office: 2008-07-11
ID: 01417
Authors: G. Trevisi, L. Seravalli, P. Frigeri, M. Prezioso, J.C. Rimada, E. Gombia, R. Mosca, L. Nasi, C. Bocchi and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: The effects of quantum dot coverage in InAs/(In)GaAs nanostructures for long wavelength emission
(Planned) journal: Microelectron. J (2008), doi:10.1016/j.mejo.2008.06.015
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-07-11
ID: 01416
Authors: J G Lozano, A M Sánchez, R. García, S. Ruffenach, O. Briot, D. González
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Characterization of the misfit dislocation networks in InN quantum dots grown on GaN
(Planned) event: SANDiE Workshop "Characterization and Modelling of Self-Assembled Semiconductor Nanostructures" Paris, France
(Planned) date of presentation: 12-13 Dec 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-05-19
ID: 01415
Authors: A M Beltrán, T Ben, A M Sánchez, J M Ripalda, S I Molina
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Análisis estructural de puntos cuánticos de InAs/GaAs(001) recubiertos por capas de GaSb/GaAs
(Planned) journal: X Congreso Nacional de Materiales San Sebastián (Spain)
(Planned) date of publication: 18-20 June 2008
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-05-19
ID: 01414
Authors: D L Sales, P L Galindo, T Ben, R García, S I Molina, D Fuster, Y González, L González, M Varela, S J Pennycook
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Finite element simulation of the elastic energy of semiconductor quantum wires at their initial growth stage
(Planned) event: SANDiE Workshop "Characterization and Modelling of Self-Assembled Semiconductor Nanostructures" Paris, France
(Planned) date of presentation: 12-13 Dec 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-05-19
ID: 01413
Authors: P L Galindo, J Pizarro, A Yáñez, E Guerrero, A Rosenauer, M Schowalter, D L Sales, S I Molina
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Parallel software for the simulation of HAADF-STEM images of large semiconductor nanostructures
(Planned) event: SANDiE Workshop "Characterization and Modelling of Self-Assembled Semiconductor Nanostructures" Paris, France
(Planned) date of presentation: 12-13 Dec 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-05-19
ID: 01412
Authors: S. J. Pennycook, M. Varela, M. F. Chisholm, A. Y. Borisevich, A. R. Lupini, K. van Benthem, M. P. Oxley, W. Luo, S-H. Oh, D. Kumar, D. L. Sales, S. I. Molina, S. T. Pantelides
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Functionality of nanostructures through aberration-corrected microscopy and first principles theory
(Planned) journal: 10th International Conference on Advanced Materials (IUMRS-ICAM 2007). Invited talk. Bangalore, India
(Planned) date of publication: 8-13 Oct 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-05-19
ID: 01411
Authors: S. J. Pennycook, M. Varela, M. F. Chisholm, A. Y. Borisevich, A. R. Lupini, K. Van Benthem, J. Tao, M. P. Oxley, S. N. Rashkeev, W. Luo, J. R. McBride, S. J. Rosenthal, D. L. Sales, S. I. Molina, S. T. Pantelides
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Characterization of Nanostructures with Single Atom Sensitivity through Aberration-Corrected STEM
(Planned) event: Materials Science and Technology Conference 2007. Invited talk. Detroit, Michigan, USA
(Planned) date of presentation: 16-20 Sept. 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-05-19
ID: 01410
Authors: T. Ben, D. L. Sales, J. Pizarro, P. L. Galindo, M. Varela, S. J. Pennycook, D. Fuster, L. González, Y. González, S. Kret, S. I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Influence of the growth temperature of the InP capping layer on the stacking of InAs quantum wire layers: a theoretical and experimental study of the strain field
(Planned) event: Electron Microscopy Analysis Group (EMAG) 2007 Glasgow (U. K.)
(Planned) date of presentation: 5-7 Sept 2007
Research paper in international journal? (y/n): n

Status: presented
Submitted to Network Office: 2008-05-19
• **ID:** 01409
Authors: A.M. Beltrán, T. Ben, A. M. Sánchez, J. M. Ripalda, S. I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Structural characterization by Transmission Electron Microscopy of GaSb/GaAs/InAs quantum dots
(Planned) event: AGH-UST Workshop on Advanced sample preparation techniques for TEM
(Planned) date of presentation: 24-29 June 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-05-19
• **ID:** 01408
Authors: J.G. Lozano, A.M. Sánchez, R. García, M. Herrera, N.D. Browning, S. Ruffenach, O. Briot, D. González
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Configuration of the misfit dislocation networks in uncapped and capped InN quantum dots
(Planned) journal: Appl. Phys. Lett. 91, 071915 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-05-19
• **ID:** 01407
Authors: J. G. Lozano, F. M. Morales, R. García, D. González, V. Lebedev, Ch. Y. Wang, V. Cimalla and O. Ambacher
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Cubic InN growth on sapphire (0001) using cubic indium oxide as buffer layer
(Planned) journal: Appl. Phys. Lett 90 (2007), 091901
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-05-19
• **ID:** 01406
Authors: M. Henini, J. Ibañez, M. Schmidbauer, M. Shafí, S. V. Novikov, L. Turyanska, S. I. Molina, D. L. Sales, M. F. Chisholm, J. Misiewicz
Authors - SANDiE partners: P09 (Uni Nottingham), P17 (Uni Cadiz)
Title: Molecular beam epitaxy of GaBiAs on (311) GaAs substrates
(Planned) journal: Appl. Phys. Lett., 91 (2007) 251909-1-3
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-05-19
• **ID:** 01405
Authors: D. L. Sales, J. Pizarro, P. Galindo, R. Garcia, G. Trevisi, P. Frigeri, L. Nasi, S. Franchi, S. I. Molina
Authors - SANDiE partners: P14 (CNR-IMEM), P17 (Uni Cadiz)
Title: Critical strain regions evaluation of self assembled semiconductor quantum dots
(Planned) journal: Nanotechnology, 18 (2007) 475503-1-6
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-05-19
• **ID:** 01404
Authors: Russell, A; Fal'ko, VI; Tartakovskii, AI, et al.
Authors - SANDiE partners: P08 (Uni Sheffield), P29 (Uni Lancaster)
Title: Bistability of optically induced nuclear spin orientation in quantum dots
(Planned) journal: PHYSICAL REVIEW B Volume: 76 Issue: 19 Article Number: 195310
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-06-06
• **ID:** 01403
Authors: Makhonin, MN; Tartakovskii, AI; Van'kov, AB, et al.
Authors - SANDiE partners: P08 (Uni Sheffield), P29 (Uni Lancaster)
Title: Long nuclear spin polarization decay times controlled by optical pumping in individual quantum dots
(Planned) journal: PHYSICAL REVIEW B Volume: 77 Issue: 12 Article Number: 125307
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-06-06
• **ID:** 01402
Authors: P. Rinke, M. Winkelkemper, A. Qteish, D. Bimberg, J. Neugebauer, and M. Scheffler
Authors - SANDiE partners: P04 (TU Berlin), P27 (FHI-Berlin)
Title: Consistent set of band parameters for the group-III nitrides AlN, GaN, and InN
(Planned) journal: Phys. Rev. B 77, 075202 (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-06-05
• **ID:** 01401
Authors: M.P. Nowak, B. Szafran, F.M. Peeters

Authors - SANDiE partners: A05 (Uni Krakow), P03 (Uni Antwerpen)
Title: Manipulation of two-electron states by the electric field in stacked self-assembled dots
(Planned) journal: Journal of Physics Condensed Matter
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2008-05-30
 • ID: 01400
Authors: B. Hennequin, L. Turyanska, T. Ben, A. M. Beltrán, S. I. Molina, M. Li, S. Mann, A. Patané, N. R. Thomas
Authors - SANDiE partners: P09 (Uni Nottingham), P17 (Uni Cadiz)
Title: Biocompatible, aqueous near infrared fluorescent labels based on apoferritin-encapsulated PbS quantum dots
(Planned) journal: Adv. Mater.
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2008-05-07
 • ID: 01399
Authors: S. H. Oh, K. van Benthem, S. I. Molina, A. Borisevich, W. Luo, P. Werner, N. D. Zakharov, D. Kumar, S. T. Pantelides, S. J. Pennycook
Authors - SANDiE partners: P17 (Uni Cadiz), P05 (MPI Halle)
Title: Point Defect Configurations of Supersaturated Au Atoms Inside Si Nanowire
(Planned) journal: Nano Letters
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2008-05-07
 • ID: 01398
Authors: B. Szafran
Authors - SANDiE partners: A05 (Uni Krakow)
Title: Correlated persistent currents in a stack of quantum rings
(Planned) journal: Physical Review B
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2008-04-30
 • ID: 01397
Authors: T. Nuytten, M. Hayne, M. Henini and V. V. Moshchalkov
Authors - SANDiE partners: P29 (Uni Lancaster), P02 (KU Leuven), P09 (Uni Nottingham)
Title: InAs/GaAs Self-assembled Quantum Dots Studied as a Function of Magnetic Field and Temperature
(Planned) event: UK Semiconductors 2008
(Planned) date of presentation: 2008-07-02 to 2008-07-03
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2008-04-22
 • ID: 01396
Authors: M. Ahmad Kamarudin, M. Hayne, Q.D. Zhuang, T. Nuytten and V.V. Moshchalkov
Authors - SANDiE partners: P29 (Uni Lancaster), P02 (KU Leuven)
Title: Dissolution of GaSb Quantum Dots by GaAs Capping Layer
(Planned) event: UK Semiconductors 2008
(Planned) date of presentation: 2008-07-02 to 2008-07-03
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2008-04-22
 • ID: 01395
Authors: B. Szafran
Authors - SANDiE partners: A05 (AGH Uni Krakow)
Title: Charged coplanar semiconductor quantum rings: magnetization and interring electron-electron correlation
(Planned) journal: PRB
(Planned) date of publication: 2008-04-04
Research paper in international journal? (y/n): y
Status: in print
Submitted to Network Office: 2008-04-14
 • ID: 01394
Authors: T. Nuytten, M. Hayne, M. Henini and V. V. Moshchalkov
Authors - SANDiE partners: P02 (KU Leuven), P09 (University of Nottingham), P29 (Lancaster University)
Title: Temperature dependence of the photoluminescence of self-assembled InAs/GaAs quantum dots in pulsed magnetic fields
(Planned) journal: Phys. Rev. B 77 115348 (2008)
(Planned) date of publication: 2008-03-25
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-03-31
 • ID: 01393
Authors: V.A. Shchukin, N.N. Ledentsov, L.Ya. Karachinsky, I.I. Novikov, Yu.M. Shernyakov, N.Yu. Gordeev, M.V. Maximov, M.B. Lifshits, A.V. Savelyev, A.R. Kovsh, I.L. Krestnikov, S.S. Mikhrin, and D. Bimberg
Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin), P28 (INNOLUME)
Title: High-power 975 nm tilted cavity laser with a 0.13 nm/K thermal shift of the lasing wavelength
(Planned) journal: Semiconductor Science and Technology, v. 22(9), pp. 1061-1065 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-03-24

• **ID:** 01392

Authors: I. I. Novikov, Yu. M. Shernyakov, M. V. Maximov, N. Yu. Gordeev, N. A. Kaluzhnyi, S.A.Mintairov, V. M. Lantratov, V. A. Shchukin, and N. N. Ledentsov

Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin)

Title: Wavelength-stabilized tilted wave lasers with a narrow vertical beam divergence

(Planned) journal: Semicond. Science Technol.

(Planned) date of publication:

Research paper in international journal? (y/n): y

Status: submitted

Submitted to Network Office: 2008-03-24

• **ID:** 01391

Authors: I. I. Novikov, N. Yu. Gordeev, Yu. M. Shernyakov, Yu. Yu. Kiselev, M. V. Maximov, P. S. Kop'ev, A. Sharon, R. Duboc, D. B. Arbiv, U. Ben-Ami, V. A. Shchukin, and N. N. Ledentsov

Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin)

Title: High-power single mode (>1 W) continuous wave operation of longitudinal photonic band crystal lasers with a narrow vertical beam divergence

(Planned) journal: Appl. Phys. Lett. 92, 103515 (2008)

(Planned) date of publication: 2008

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-03-24

• **ID:** 01390

Authors: A.M. Nadtochy, S.A. Blokhin, A.V. Sakharov, M.M. Kulagina, Yu.M. Zadiranov, N.Yu. Gordeev, M.V. Maximov, V.M. Ustinov, N.N. Ledentsov, E. Stock, T. Warming, D. Bimberg

Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin)

Title: The impact of excitation level on optical properties of GaAs-AlGaO-microdisk based on InAs quantum dots

(Planned) journal: Fizika i Tekhnika Poluprovodnikov

(Planned) date of publication: 2008

Research paper in international journal? (y/n): n

Status: submitted

Submitted to Network Office: 2008-03-24

• **ID:** 01389

Authors: L.Ya.Karachinsky, I.I.Novikov, G.Fiol, M.Kuntz, Yu.M.Shernyakov, N.Yu.Gordeev, M.V.Maximov, M.B.Lifshits, V.A.Shchukin, N.N.Ledentsov, S.S. Mikhlin and D.Bimberg

Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin), P28 (INNOLUME)

Title: High-Power Wavelength Stabilized Laser Based on the Tilted Cavity Concept

(Planned) event: 16th Int. Symp. "Nanostructures: Physics and Technology", Vladivostok, Russia 14–19, July 2008

(Planned) date of presentation: 2008-07-14 to 2008-07-19

Research paper in international journal? (y/n): n

Status: submitted

Submitted to Network Office: 2008-03-24

• **ID:** 01388

Authors: N. Yu. Gordeev, M. V. Maximov, Y. M. Shernyakov, I. I. Novikov, L. Ya. Karachinsky, V. A. Shchukin, T. Kettler, K. Posilovic, N. N. Ledentsov, D. Bimberg, R. Duboc, A. Sharon, D. B. Arbiv, U. Ben-Ami

Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin)

Title: High-power one-, two-, and three-dimensional photonic crystal edgeemitting laser diodes for ultrahigh brightness applications

(Planned) journal: Proc. of SPIE Vol. 6889, 68890W, (2008)

(Planned) date of publication: 2008

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-03-24

• **ID:** 01387

Authors: V. G. Dubrovskii, N. V. Sibirev, G. E. Cirlin, M. Tchernycheva, J. C. Harmand, and V. M. Ustinov

Authors - SANDiE partners: P26 (Ioffe), P11 (LPN/CNRS)

Title: Shape modification of III-V nanowires: The role of nucleation on sidewalls

(Planned) journal: Phys. Rev. E, 2008, v. 77, 031606

(Planned) date of publication: 2008

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-03-24

• **ID:** 01386

Authors: S.A.Blokhin, L.Ya.Karachinsky, I.I.Novikov, N.Yu.Gordeev, A.V.Sakharov, N.A.Maleev, A.G.Kuzmenkov, Yu.M.Shernyakov, M.V.Maximov, A.R.Kovsh, S.S.Mikhlin, V.A.Shchukin, N.N.Ledentsov, V.M.Ustinov and D.Bimberg

Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin), P28 (INNOLUME)

Title: Single lobe single wavelength lasing in ultra-broad area vertical cavity surface-emitting lasers based on the integrated filter concept

(Planned) journal: Journal of Quantum Electronics

(Planned) date of publication: 2008

Research paper in international journal? (y/n): y

Status: submitted

Submitted to Network Office: 2008-03-24

• **ID:** 01385

Authors: V. M. Fomin, V. N. Gladilin, J. T. Devreese, N. A. J. M. Kleemans, P. M. Koenraad

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Electron and exciton energy spectra and the Aharonov-Bohm effect in self-assembled InGaAs/GaAs ring-like nanostructures

(Planned) event: 8th International Conference on Excitonic Processes in Condensed Matter (EXCON'08), Kyoto, Japan

(Planned) date of presentation: 2008-06-22 to 2008-06-27

Research paper in international journal? (y/n): n

Status: accepted

Submitted to Network Office: 2008-03-21

• **ID:** 01384

Authors: N. A. J. M. Kleemans, J. H. Blokland, A. G. Taboada, I. M. A. Bominaar-Silkens, H. C. M. Genuchten, V. M. Fomin, V. N. Gladilin, D. Granados, J. M. García, U. Zeitler, P. C. M. Christianen, J. C. Maan, J. T. Devreese, P. M. Koenraad

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: The impact of the Aharonov-Bohm effect on the electronic and excitonic properties of ring-shaped nanostructures

(Planned) event: International School "Magnetic Fields for Science", August 27 - September 8, 2007, Cargèse, Corsica, France

(Planned) date of presentation: 2007-08-27 to 2007-09-08

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2008-03-21

• **ID:** 01383

Authors: V. M. Fomin, V. N. Gladilin, J. T. Devreese, N. A. J. M. Kleemans, P. M. Koenraad

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Theory of the electron energy spectrum and the Aharonov-Bohm effect in single- and two-electron self-assembled In_xGa_{1-x}As/GaAs quantum rings

(Planned) event: 2nd SANDiE Workshop "Characterization and modelling of self-assembled semiconductor nanostructures" (SanCharMod) Paris

(Planned) date of presentation: 2007-12-12 to 2007-12-13

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2008-03-21

• **ID:** 01382

Authors: J. T. Devreese, V. M. Fomin, V. N. Gladilin

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Exciton-Phonon Interaction in Quantum Dots

(Planned) journal: chapter in the Encyclopedia of Nanoscience and Nanotechnology (second edition) ed. by H. S. Nalwa, American Scientific Publishers

(Planned) date of publication: 2008

Research paper in international journal? (y/n): y

Status: accepted

Submitted to Network Office: 2008-03-21

• **ID:** 01381

Authors: J. T. Devreese, V. M. Fomin, V. N. Gladilin

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Effects of the Electron-Phonon Interaction in Semiconductor Quantum Dots

(Planned) journal: chapter in "Handbook for Self-Assembled Semiconductor Nanostructures for Novel Devices in Photonics and Electronics", ed. by M. Henini, Elsevier

(Planned) date of publication: 2008

Research paper in international journal? (y/n): y

Status: in press

Submitted to Network Office: 2008-03-21

• **ID:** 01380

Authors: J. T. Devreese

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Integrated Functionality: Nanosensors

(Planned) event: 2008 APS March Meeting, New Orleans, Louisiana

(Planned) date of presentation: 2008-03-10 to 2008-03-14

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2008-03-21

• **ID:** 01379

Authors: I. J. T. Devreese

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Optical properties of exciton-phonon systems in quantum dots: Effects of non-adiabaticity

(Planned) event: 4th International Workshop of Functional and Nanostructured Materials. Gdansk, Poland

(Planned) date of presentation: 2007-09-01 to 2007-09-06

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2008-03-21

• **ID:** 01378

Authors: J. Milton Pereira Jr., P. Vasilopoulos, and F.M. Peeters

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Tunable quantum dots in bilayer graphene

(Planned) journal: Nano Letters 7, 946-949 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-03-20

• **ID:** 01377

Authors: A. Vagov, M. D. Croitoru, V. M. Axt, T. Kuhn, F. M. Peeters

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Non-monotonic field dependence of damping and reappearance of Rabi rotations in quantum dots
(Planned) journal: Phys. Rev. Lett. 98, 227403 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-03-20
• ID: 01376

Authors:B. Szafran, E. Barczyk, and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen), A5 (AGH Uni Krakow)
Title: Exciton spectra in vertical stacks of triple and quadruple quantum dots in an electric field
(Planned) journal: PRL
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2008-03-20
• ID: 01375

Authors: L.K. Castelano, G.-Q. Hai, B. Partoens, and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Control of the persistent currents in two interacting quantum rings through the Coulomb interaction and inter-ring tunneling
(Planned) journal: PRL
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2008-03-20
• ID: 01374

Authors: B. Szafran and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen), A05 (AGH Uni Krakow)
Title: Signatures of lateral coupling of double quantum dots in the exciton photoluminescence spectrum
(Planned) journal: Phys. Rev. B 76, 195442 (2007) (9 pages)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-03-20
• ID: 01373

Authors: E. Anisimovas, M.B. Tavernier, and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen), A4 (Semiconductor Physics Institute Vilnius)
Title: Electron-vortex separation in quantum dots
(Planned) journal: Phys. Rev. B 77, 045327 (2008) (4 pages)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-03-20
• ID: 01372

Authors: B. Li, A.F. Slachmuylders, B. Partoens, W. Magnus, and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Dielectric mismatch effect on shallow impurity states in a nanowire
(Planned) journal: Phys. Rev. B 77, 115335 (2008) (10 pages).
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-03-20
• ID: 01371

Authors: Y. Sidor, B. Partoens, and F. M. Peeters
Authors - SANDiE partners: P03
Title: Influence of the shape and size of a quantum wire on the trion binding energy
(Planned) journal: PRL
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2008-03-20
• ID: 01370

Authors: Pascale Senellart and Bruno Gayral
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Contrôle de l'émission spontanée d'un émetteur à l'état solide
(Planned) journal: Images de la Physique
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-03-19
• ID: 01369

Authors: J.C. Harmand, F. Glas, G. Patriarche, Maria Tchernycheva
Authors - SANDiE partners: P11 (LPN-CNRS), P13 (Uni Paris)
Title: Nanocolonnes semiconductrices
(Planned) journal: Images de la Physique
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2008-03-19
• ID: 01368
Authors: Oleg Makarovsky
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Novel quantum dots in GaMnAs p-i-n diodes: their formation and nature of electron eigenstates
(Planned) event: The 15th International Symposium Nanostructures: Physics and Technology, June 25-29 2007 (Novosibirsk, Russia)
(Planned) date of presentation: 2007-06-25 to 2007-06-29
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-03-15
• ID: 01367
Authors: Oleg Makarovsky
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Probing the electron eigenstates and the chemical potential in GaMnAs/GaAs heterostructures by magnetotunneling and photocurrent spectroscopy
(Planned) event: 24th International Conference on Defects in Semiconductors (ICDS-24), Albuquerque, New Mexico
(Planned) date of presentation: 2007-07
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-03-15
• ID: 01366
Authors: Oleg Makarovsky
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Novel quantum dots in GaMnAs p-i-n diodes: their formation and nature of electron eigenstates
(Planned) event: The 24th International Conference on Defects in Semiconductors (ICDS-24), 22-27 July 2007, Albuquerque, New Mexico, USA
(Planned) date of presentation: 2007-07-22 to 2007-07-27
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-03-15
• ID: 01365
Authors: L. Turyanska
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Biocompatible aqueous near infrared fluorescent labels based on colloidal PbS quantum dots
(Planned) event: 2nd Workshop on Low-Dimensional Structures: Growth, Properties and Applications, Aveiro, Portugal
(Planned) date of presentation: 2008-01-31 to 2008-02-01
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-03-15
• ID: 01364
Authors: L. Turyanska
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Biocompatible aqueous near infrared fluorescent labels based on colloidal PbS quantum dots
(Planned) event: QD day meeting, Institute of Physics, Imperial College, London
(Planned) date of presentation: 2008-01
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-03-15
• ID: 01363
Authors: A. Patane
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Anisotropy of electron-electron interaction in quantum dots
(Planned) event: International Conference on Non-equilibrium carrier dynamics in semiconductors, HCIS, Tokyo
(Planned) date of presentation: 2007-07
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-03-15
• ID: 01362
Authors: A. Baumgartner
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Resonant tunneling excitation of self-assembled InAs quantum dots
(Planned) event: The Ural International Winter School, Yekaterinburg, Nizhny Novgorod, Russia
(Planned) date of presentation: 2008-02-14
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-03-15
• ID: 01361
Authors: L. Eaves
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Tunnelling spectroscopy of quantum dots
(Planned) event: School on Magnetic Fields for Science, Cargèse, Corsica
(Planned) date of presentation: 2007-08
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-03-15

- **ID:** 01360
Authors: L. Eaves
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Magnetotunneling spectroscopy: imaging electron wavefunctions in heterostructures
(Planned) event: March Meeting of the American Physical Society, New Orleans, USA
(Planned) date of presentation: 2008-03
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-03-15
- **ID:** 01359
Authors: M.Henini
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Low Dimensional Structures and Devices
(Planned) event: Tutorial on "Low Dimensional Structures and Devices", Pondicherry, India
(Planned) date of presentation: 2008-01-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-03-15
- **ID:** 01358
Authors: M.Henini
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Recent Progress in Self-Assembled Quantum-Dot Optical Devices
(Planned) event: Plenary Talk at the International Conference on Nano and Micro Electronics, Pondicherry, India
(Planned) date of presentation: 2008-01-04 to 2008-01-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-03-15
- **ID:** 01357
Authors: M.Henini
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Optical and Morphological Properties of Self-Assembled Quantum Dots Grown by Molecular Beam Epitaxy on Novel Index Surfaces
(Planned) event: 13th Latin American Conference on the Physics of Surfaces and its Applications CLACSA XIII), Santa Marta, Colombia
(Planned) date of presentation: 2007-12-03 to 2007-12-07
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-03-15
- **ID:** 01356
Authors: M.Henini
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Molecular Beam Epitaxy From Research to Mass-Production
(Planned) event: International Conference on Semiconductor Materials and Optics, Warsaw, Poland
(Planned) date of presentation: 2007-10-18 to 2007-10-21
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-03-15
- **ID:** 01355
Authors: M.Henini
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Recent Progress in Self-Assembled Quantum-Dot Optical Devices for Telecommunication Applications
(Planned) event: SPIE International Symposium on Optics East 2007: Nanophotonics for Communication: Materials, Devices, and Systems IV (IT407), Boston MA, USA
(Planned) date of presentation: 2007-09-09 to 2007-09-12
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-03-15
- **ID:** 01354
Authors: Editor M.Henini
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Handbook of Self-Assembled Semiconductor Nanostructures for Novel Devices in Photonics and Electronics
(Planned) journal: to be published by Elsevier Advanced Technology
(Planned) date of publication: 2008
Research paper in international journal? (y/n): n
Status: to be published
Submitted to Network Office: 2008-03-15
- **ID:** 01353
Authors: T. Nuytten, M. Hayne, L. Seravalli, S. Franchi, V.V. Moshchalkov
Authors - SANDiE partners: P02 (KU Leuven), P14 (CNR-IMEM, Parma), P29 (Lancaster University)
Title: Exciton Confinement in Strain-Engineered InAs/InGaAs/GaAs Quantum Dots Studied in High Magnetic Fields
(Planned) event: Workshop on Recent Advances of Low Dimensional Structures and Devices, 7-9 April 2008, Nottingham University (P09)
(Planned) date of presentation: 2008-04-07 to 2008-04-09
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-03-06
- **ID:** 01352
Authors: G. Kakazei, P. Martin, A. Ruiz, M. Varela, M. Alonso, J. Palomares, R. Rubinger, M. Carmo, N. Sobolev
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Ferromagnetic resonance of ultra-thin Co/Ag superlattices on Si(111)

(Planned) event: 52nd Conf. on Magnetism and Magnetic Materials (Tampa, Florida, November 5–9, 2007)
(Planned) date of presentation: 2007-11-05 to 2007-11-09
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-02-29

- **ID:** 01351
Authors: N.A. Sobolev, M.A. Oliveira, A.J. Neves, A.O. Ankiewicz, R.M. Rubinger, M.C. Carmo, O. Picht, W. Wesch, R.P. Borges, M. Godinho, J. Biskupek, U. Kaiser, W. Gehlhoff
Authors - SANDiE partners: P15 (Uni Aveiro), P04 (TU Berlin)
Title: Magnetic and structural properties of Mn and As implanted silicon
(Planned) event: 52nd Conf. on Magnetism and Magnetic Materials (Tampa, Florida, November 5–9, 2007)
(Planned) date of presentation: 2007-11-05 to 2007-11-09
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-02-29
- **ID:** 01350
Authors: A.S. Pereira, A.O. Ankiewicz, W. Gehlhoff, S. Pereira, M. Grundmann, M.C. Carmo, T. Trindade, N.A. Sobolev
Authors - SANDiE partners: P15 (Uni Aveiro), P04 (TUB), P01 (Uni Leipzig)
Title: Surface modification of Co-doped ZnO nanocrystals and its effects on the magnetic properties
(Planned) event: 52nd Conf. on Magnetism and Magnetic Materials (Tampa, Florida, November 5–9, 2007)
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): y
Status: presented
Submitted to Network Office: 2008-02-29
- **ID:** 01349
Authors: R.M. Rubinger, M.C. Carmo, N.A. Sobolev, S. Pereira, A.D. Bouravleuv, S. Mitani, T. Ishibashi, A. Koukitu, K. Sato
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Magnetic and structural properties of MnP nanowhiskers grown by MBE
(Planned) event: 52nd Conf. on Magnetism and Magnetic Materials (Tampa, Florida, November 5–9, 2007)
(Planned) date of presentation: 2007-11-5 to 2007-11-9
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-02-29
- **ID:** 01348
Authors: A.F. Zinovieva, A.V. Dvurechenskii, N.P. Stepina, A.S. Deryabin, A.I. Nikiforov, R. Rubinger, N.A. Sobolev, J.P. Leitão, M.C. Carmo
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: ESR of electrons localized on Ge/Si quantum dots
(Planned) event: 15th Internat. Symposium “Nanostructures: Physics and Technology” (Novosibirsk, June 25–29, 2007)
(Planned) date of presentation: 2007-06-25 to 2007-06-29
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-02-29
- **ID:** 01347
Authors: N.A. Sobolev
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Radiation effects in quantum dot structures
(Planned) journal: To appear in Handbook of Self-Assembled Semiconductor Nanostructures for Novel Devices in Photonics and Electronics, ed. by M. Henini (Elsevier, 2008).
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: to be published
Submitted to Network Office: 2008-02-29
- **ID:** 01346
Authors: A. Chahboun, M.I. Vasilevskiy, N.V. Baidus, A. Cavaco, N.A. Sobolev, M.C. Carmo, E. Alves, and B.N. Zvonkov
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Further insight into the temperature quenching of photoluminescence from InAs/GaAs self-assembled quantum dots
(Planned) journal: J. Appl. Phys.
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2008-02-29
- **ID:** 01345
Authors: A.F. Zinovieva, A.V. Dvurechenskii, N.P. Stepina, A.S. Deryabin, A.I. Nikiforov, R. Rubinger, N.A. Sobolev, J.P. Leitão, and M.C. Carmo
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Spin resonance of electrons localized on Ge/Si quantum dots
(Planned) journal: Phys. Rev. B.
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2008-02-29
- **ID:** 01344
Authors: G.N. Kakazei, P.P. Martin, A. Ruiz, M. Varela, M. Alonso, E. Paz, F.J. Palomares, F. Cebollada, R.M. Rubinger, M.C. Carmo, N.A. Sobolev
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Ferromagnetic resonance of ultra-thin Co/Ag superlattices on Si(111)

(Planned) journal: J. Appl. Phys.
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2008-02-29
• **ID:** 01343
Authors: A.S. Pereira, A.O. Ankiewicz, W. Gehlhoff, A. Hoffmann, S. Pereira, T. Trindade, M. Grundmann, M.C. Carmo, and N.A. Sobolev
Authors - SANDiE partners: P15 (Uni Aveiro), P04 (TUB), P01 (Uni Leipzig)
Title: Surface modification of Co-doped ZnO nanocrystals and its effects on the magnetic properties
(Planned) journal: J. Appl. Phys. 103, 07D140 (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-29
• **ID:** 01342
Authors: A.D. Bouravleuv, S. Mitani, R.M. Rubinger, M.C. do Carmo, N.A. Sobolev, T. Ishibashi, A. Koukitu, K. Takanashi, K. Sato
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Magnetic properties of MnP nanowhiskers grown by MBE
(Planned) journal: Physica E - Low-Dimensional Systems & Nanostructures, doi:10.1016/j.physe.2007.09.166.
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-29
• **ID:** 01341
Authors: J.P. Leitão, N.M. Santos, N.A. Sobolev, M.R. Correia, N.P. Stepina, M.C. Carmo, S. Magalhães, E. Alves, A.V. Novikov, M.V. Shaleev, D.N. Lobanov, Z.F. Krasilnik
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Radiation hardness of GeSi heterostructures with thin Ge layers
(Planned) journal: Materials Science and Engineering B, Vol. 147 (2008) 191
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-29
• **ID:** 01340
Authors: N.A. Sobolev, M.A. Oliveira, R.M. Rubinger, A.J. Neves, M.C. Carmo, V.P. Lesnikov, V.V. Podolskii, Yu.A. Danilov, E.S. Demidov, G.N. Kakazei
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Ferromagnetic resonance and Hall effect characterization of GaMnSb layers
(Planned) journal: Journal of Superconductivity and Novel Magnetism, Vol. 20 (2007) 399
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-29
• **ID:** 01339
Authors: K. Kowalik, O. Krebs, A. Lemaître, S. Seidl, B. Eble, A. Kudelski, J. A. Gaj, and P. Voisin
Authors - SANDiE partners: P11 (LPN-CNRS), A01 (Institute of Physics, Polish Academy of Sciences, Warsaw)
Title: Monitoring electrically-driven cancellation of exciton fine structure in a semiconductor quantum dot by optical orientation
(Planned) journal: Appl. Phys. Lett. 91, 183104 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
• **ID:** 01338
Authors: K. Kowalik, O. Krebs, A. Lemaître, J. A. Gaj, and P. Voisin
Authors - SANDiE partners: P11 (LPN-CNRS), A01 (Institute of Physics, Polish Academy of Sciences, Warsaw)
Title: Optical alignment and polarization conversion of neutral exciton spin in individual InAs/GaAs quantum dots
(Planned) journal: Phys. Rev. B
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2008-02-18
• **ID:** 01337
Authors: P.A. Postigo, F. Suárez, A. Sanz-Hervás, J. Sangrador, C. G. Fonstad
Authors - SANDiE partners: P22 (CSIC Madrid)
Title: Growth of InP on GaAs (001) by hydrogen-assisted low-temperature solid-source molecular beam epitaxy
(Planned) journal: Journal of Applied Physics 103 (1) 013508-1 (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
• **ID:** 01336
Authors: P. A. Postigo, A. R. Alija, L. J. Martínez, M. L. Dotor, D. Golmayo, C. Seassal, P. Viktorovitch, J. Sánchez-Dehesa, M. Galli, A. Politi, M. Patrini, and L. C. Andreani
Authors - SANDiE partners: P22 (CSIC Madrid)
Title: Laser nanosources based on planar photonic crystals as new platforms for nanophotonic devices
(Planned) journal: Photonics and Nanostructures - Fundamentals and Applications ,5, 79-85 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-02-18

• **ID:** 01335

Authors: D. Sarkar, H.P. van der Meulen, J.M. Calleja, L. J. Martínez, I. Prieto, A. R. Alija, D. Granados, A.G. Taboada, J.M. García and P.A. Postigo

Authors - SANDiE partners: P22 (CSIC Madrid)

Title: Optical Emission of InAs/GaAs Quantum Rings Coupled to a two-dimensional Photonic Crystal Microcavity

(Planned) journal: Physica E (2007), doi: 10.1016/j.physe.2007.10.095

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-02-18

• **ID:** 01334

Authors: Diego Alonso-Álvarez, Benito Alén, Jorge M. García, J. M. Ripalda

Authors - SANDiE partners: P22 (CSIC Madrid)

Title: Optical investigation of type II GaSb/GaAs self assembled quantum dots

(Planned) journal: Applied Physics Letters 91, 263103 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-02-18

• **ID:** 01333

Authors: N. A. J. M. Kleemans, I. M. A. Bominaar-Silkens, V. M. Fomin, V. N. Gladilin, D. Granados, A. G. Taboada, J. M. García, P. Offermans, U. Zeitler, P. C. M. Christianen, J. C. Maan, J. T. Devreese, and P. M. Koenraad

Authors - SANDiE partners: P22 (CSIC Madrid), P07 (Uni Eindhoven)

Title: Oscillatory Persistent Currents in Self-Assembled Quantum Rings

(Planned) journal: Phys. Rev. Lett. 99, 146808 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-02-18

• **ID:** 01332

Authors: Alonso-González, B. Alén, D. Fuster, Y. González, L. González, J. Martínez- Pastor

Authors - SANDiE partners: P22 (CSIC Madrid), P16 (Uni Valencia)

Title: Formation and optical characterization of single InAs quantum dots grown on GaAs nanoholes

(Planned) journal: Appl. Phys. Lett. 91, 163104 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-02-18

• **ID:** 01331

Authors: M.A. Ruiz-Castillo, A. Segura, J. A. Sans, J. Martínez-Pastor, D. Fuster, Y. González and L. González

Authors - SANDiE partners: P22 (CSIC Madrid), P16 (Uni Valencia)

Title: Pressure dependence of photoluminescence of InAs/InP self-assembled quantum wires

(Planned) journal: Phys. Stat. Solidi (b), 244, 59-64 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-02-18

• **ID:** 01330

Authors: Pablo Alonso-González, Luisa González, Yolanda González, David Fuster, Iván Fernández-Martínez, Javier Martín-Sánchez and Leon Abelmann

Authors - SANDiE partners: P22 (CSIC Madrid)

Title: New process for high optical quality InAs quantum dots grown on patterned GaAs(001) substrates

(Planned) journal: Nanotechnology 18, 355302 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-02-18

• **ID:** 01329

Authors: A. J. Bennett (T), D. G. Gevaux (T), Z. L. Yuan (T), A. J. Shields (T), P. Atkinson (C) and D. A. Ritchie (C)

Authors - SANDiE partners: P25 (Toshiba)

Title: Experimental position-time entanglement with degenerate single photons

(Planned) journal: Phys. Rev. A, 77, 023803 (2008)

(Planned) date of publication: 2008

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-02-18

• **ID:** 01328

Authors: H. W. Li (T), P. Simmonds (C), H. E. Beere (C), B. E. Kardynal (T), D. A. Ritchie (C) and A. J. Shields (T)

Authors - SANDiE partners: P25 (Toshiba)

Title: Quantum dot resonant tunneling diodes for telecom wavelength single photon detection

(Planned) journal: Proc. of SPIE, 6766, 67660N-6, (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2008-02-18
ID: 01327
Authors: S. S. Hees (T)(C), B. E. Kardynal (T), A. J. Shields (T), I. Farrer (C) and D. A. Ritchie (C)
Authors - SANDiE partners: P25 (Toshiba)
Title: Capture dynamics of hot electrons on quantum dots in RTDs studied by noise measurement
(Planned) journal: New Journal of Physics, 10, 013027, (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
ID: 01326
Authors: A. J. Hudson (T)(C), R. M. Stevenson (T), A. J. Bennett (T), R. J. Young (T), C. A. Nicoll (C), P. Atkinson (C), K. Cooper (C), D. A. Ritchie (C) and A. J. Shields (T)
Authors - SANDiE partners: P25 (Toshiba)
Title: Coherence of an entangled exciton-photon state
(Planned) journal: Phys. Rev. Lett., 99, 266802, (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
ID: 01325
Authors: R. J. Young (T), R. M. Stevenson (T), P. Atkinson (C), K. Cooper (C), D. A. Ritchie (C) and A. J. Shields (T)
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum dots in planar cavities – single and entangled photon sources
(Planned) journal: Advances in Solid State Physics, 46, 55-65, (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
ID: 01324
Authors: P. M. Intallura (T)(C), M. B. Ward (T), O. Z. Karimov (T), Z. L. Yuan (T), P. See (T), A. J. Shields (T), P. Atkinson (C) and D. A. Ritchie (C)
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum key distribution using a triggered quantum dot source emitting near 1.3 μm
(Planned) journal: Appl. Phys. Lett., 91, 161103, (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
ID: 01323
Authors: R. J. Young (T), S. J. Dewhurst (T)(C), R. M. Stevenson (T), P. Atkinson (C), A. J. Bennett (T), M. B. Ward (T), K. Cooper (C), D. A. Ritchie (C) and A. J. Shields (T)
Authors - SANDiE partners: P25 (Toshiba)
Title: Single electron-spin memory with a semiconductor quantum dot
(Planned) journal: New Journal of Physics, 9, 365, (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
ID: 01322
Authors: P. J. Simmonds (C), H. E. Beere (C), H. W. Li (T), B. E. Kardynal (T), P. See (T), A. J. Shields (T) and D. A. Ritchie (C)
Authors - SANDiE partners: P25 (Toshiba)
Title: Growth by molecular beam epitaxy of self-assembled InAs quantum dots on InAlAs and InGaAs lattice-matched to InP
(Planned) journal: J. Vac. Sci. Technol, B, 25, (3) 1044, (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
ID: 01321
Authors: A. J. Shields (T)
Authors - SANDiE partners: P25 (Toshiba)
Title: Semiconductor quantum light sources
(Planned) journal: Nature Photonics, 1, 215, (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
ID: 01320
Authors: B. E. Kardynal (T), S. S. Hees (T), A. J. Shields (T), C. Nicoll (C), I. Farrer (C) and D. A. Ritchie (C)
Authors - SANDiE partners: P25 (Toshiba)
Title: Photon number resolving detector based on a quantum dot field effect transistor
(Planned) journal: Appl. Phys. Lett., 90, 181114 (2007).
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18

- **ID:** 01319
Authors: H. W. Li (T), B. E. Kardynal (T), P. See (T), A. J. Shields (T), P. Simmonds (C), H. E. Beere (C) and D. A. Ritchie (C)
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum dot resonant tunnelling diode for telecommunication wavelength single photon detection
(Planned) journal: Appl. Phys. Lett., 91, 073516 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
- **ID:** 01318
Authors: J. R. Gell (C)(T), M. B. Ward (T), A. J. Shields (T), P. Atkinson (C), S. P. Bremner (C), D. Anderson (C), M. Kataoka (C), C. H. W. Barnes (C), G. A. C. Jones (C), D. A. Ritchie (C)
Authors - SANDiE partners: P25 (Toshiba)
Title: Temporal characteristics of surface-acoustic-wave-driven luminescence from a lateral p-n junction
(Planned) journal: Appl. Phys. Lett., 91, 013506 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
- **ID:** 01317
Authors: Z. L. Yuan (T), B. E. Kardynal (T), A. W. Sharpe (T) and A. J. Shields (T)
Authors - SANDiE partners: P25 (Toshiba)
Title: High speed single photon detection in the near infrared
(Planned) journal: Appl. Phys. Lett., 91, 041114 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
- **ID:** 01316
Authors: J. F. Dynes (T), Z. L. Yuan (T), A. W. Sharpe (T) and A. J. Shields (T)
Authors - SANDiE partners: P25 (Toshiba)
Title: Practical quantum key distribution over 60 hours at an optical fiber distance of 20km using weak and vacuum decoy pulses for enhanced security
(Planned) journal: Optics Express, 15, 8465-8471 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
- **ID:** 01315
Authors: R. J. Young (T), R. M. Stevenson (T), A. J. Hudson (C), P. Atkinson (C), K. Cooper (C), D. A. Ritchie (C) and A. J. Shields (T)
Authors - SANDiE partners: P25 (Toshiba)
Title: Generating triggered single and entangled photons with a semiconductor source
(Planned) journal: "Quantum Communication and Security" Edited by M. Zukowski (IOS Press 2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
- **ID:** 01314
Authors: R. J. Young (T), S. J. Dewhurst, R. M. Stevenson (T), A. J. Shields (T), P. Atkinson (C), K. Cooper (C) and D. A. Ritchie (C)
Authors - SANDiE partners: P25 (Toshiba)
Title: Controlling the polarisation correlation of photon pairs from a charge-tunable quantum dot
(Planned) journal: Appl. Phys. Lett., 91, 011114 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
- **ID:** 01313
Authors: M. Feucker, R. Seguin, S. Rodt, A. Hoffmann, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Decay dynamics of neutral and charged excitonic complexes in single InAs/GaAs quantum dots
(Planned) journal: Applied Physics Letters 92, 063116, 2008
(Planned) date of publication: 2008-02-14
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
- **ID:** 01312
Authors: A. Marent, M. Geller, A. Schliwa, D. Feise, K. Pötschke, and D. Bimberg, N. Akçay and N. Öncan
Authors - SANDiE partners: P04 (TU Berlin)
Title: 10^6 years extrapolated hole storage time in GaSb/AlAs quantum dots
(Planned) journal: Appl. Phys. Lett. 91, 242109
(Planned) date of publication: 2007-12-14
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
- **ID:** 01311
Authors: Andrei Schliwa, Momme Winkelkemper, and Dieter Bimberg
Authors - SANDiE partners: P04 (TU Berlin)

Title: Impact of size, shape, and composition on piezoelectric effects and electronic properties of In(Ga)As/GaAs quantum dots
(Planned) journal: Physical Review B 76, 205324
(Planned) date of publication: 2007-11-12
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
• **ID:** 01310
Authors: M. Winkelnkemper, R. Seguin, S. Rodt, A. Schliwa, L. Reißmann, A. Strittmatter, A. Hoffmann, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Polarized emission lines from single InGaN/GaN quantum dots: Role of the valence-band structure of Wurtzite group-III nitrides
(Planned) journal: Physics E 40, 2217 (2008)(Conf. Proc. der MSS-13 in Genua 2007)
(Planned) date of publication: 2007-12-04 (online)
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
• **ID:** 01309
Authors: M. Kuntz, G. Fiol, M. Laemmlin, C. Meuer, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: High-speed mode-locked quantum-dot lasers and optical amplifiers
(Planned) journal: Proceedings of The IEEE, Special Issue on Optoelectronic Devices Based on Quantum Dots, 95 (9) p. 1767-1778, 2007
(Planned) date of publication: 2007-09-09
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
• **ID:** 01308
Authors: F. Hopfer, A. Mutig, G. Fiol, M. Kuntz, V.A. Shchukin, V.A. Haisler, T. Warming, E. Stock, S.S. Mikhlin, I.L. Krestnikov, D.A. Livshits, A.R. Kovsh, C. Bornholdt, A. Lenz, H. Eisele, M. Dähne, N.N. Ledentsov, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)
Title: 20 Gb/s 85 °C error-free operation of VCSELs based on submonolayer deposition of quantum dots
(Planned) journal: IEEE Journal of Selected Topics in Quantum Electronics; 13(5), p. 1302-1308 (2007)
(Planned) date of publication: 2007-10
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
• **ID:** 01307
Authors: N.N. Ledentsov, D. Bimberg, F. Hopfer, A. Mutig, V.A. Shchukin, A.V. Savel'ev, G. Fiol, E. Stock, H. Eisele, M. Dähne, D. Gerthsen, U. Fischer, D. Litvinov, A. Rosenauer, S.S. Mikhlin, A.R. Kovsh, N.D. Zakharov and P. Werner
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg), P28 (Innolume), P05 (MPI Halle)
Title: Submonolayer Quantum Dots for High Speed Surface Emitting Lasers
(Planned) journal: Nanoscale Research Letters, 2, 417 (2007)
(Planned) date of publication: 2007-08-10
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
• **ID:** 01306
Authors: Scholz, M., S. Buttner, O. Benson, A.I. Toropov, A.K. Bakarov, A.K. Kalagin, A. Lochmann, E. Stock, O. Schulz, F. Hopfer, V.A. Haisler, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Non-classical light emission from a single electrically driven quantum dot
(Planned) journal: Optics Express 15 (15) p. 9107-9112
(Planned) date of publication: 2007-07-10
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
• **ID:** 01305
Authors: V.I. Zubkov, I.S. Shulgunova, A.V. Solomonov, M. Geller, A. Marent, D. Bimberg, A.E. Zhukov, E.S. Semenova und V.M. Ustinov
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)
Title: Direct observation of charge-carrier capture in an array of self-assembled InAs/GaAs quantum dots
(Planned) journal: Bulletin of the Russian Academy of Sciences: Physics, 71 (1), p. 106
(Planned) date of publication: 2007-01
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-18
• **ID:** 01304
Authors: N.Yu. Gordeev, M.V. Maximov, Y.M. Shernyakov, I.I. Novikov, L.Ya. Karachinsky, V.A. Shchukin, T. Kettler, K. Posilovic N.N. Ledentsov, D. Bimberg, R. Duboc, A. Sharon, D.B. Arbiv, U. Ben-Ami
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)
Title: High-power one-, two-, and three-dimensional photonic crystal edge-emitting laser diodes for ultrahigh brightness applications
(Planned) event: Photonics West 2008 (OPTO 2008)
(Planned) date of presentation: 2008-01
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-02-18
• **ID:** 01303
Authors: M. Winkelnkemper, M. Dworzak, T. Bartel, A. Schliwa, A. Hoffmann, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)

Title: Recombination dynamics of localized excitons in InGaN/GaN quantum dots
(Planned) event: 2nd SANDiE Workshop on Characterization and modelling of self-assembled semiconductor nanostructures (SanCharMod 2007), Paris, France, December 12-13, 2007
(Planned) date of presentation: 2007-12-13
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-02-18
• ID: 01302
Authors: Nikolai N. Ledentsov, Friedhelm Hopfer, and Dieter Bimberg,
Authors - SANDiE partners: P04 (TU Berlin)
Title: High-Speed Quantum-Dot Vertical-Cavity Surface-Emitting Lasers
(Planned) journal: Proceedings of the IEEE Vol. 95, No. 9, September 2007
(Planned) date of publication: 2007-09
Research paper in international journal? (y/n): y
Status: invited paper
Submitted to Network Office: 2008-02-18
• ID: 01301
Authors: G. Trevisi, L. Seravalli, P. Frigeri, M. Prezioso, J.C. Rimada, E. Gombia, R. Mosca, L. Nasi, C. Bocchi and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: The effects of quantum dot coverage in InAs/(In)GaAs nanostructures for long wavelength emission
(Planned) event: Workshop on Recent Advances of Low Dimensional Structures and Devices, Nottingham (UK)
(Planned) date of presentation: 2008-04-07 to 2008-04-09
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-02-15
• ID: 01300
Authors: L.Seravalli, P. Frigeri, G. Trevisi and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: 1.59 μm room temperature emission from metamorphic InAs/InGaAs quantum dots grown on GaAs substrates
(Planned) journal: Applied Physics Letters, 92 213104 (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-15
• ID: 01299
Authors: S. Sanguinetti, M. Guzzi, E. Grilli, M. Gurioli, L. Seravalli, P. Frigeri, S. Franchi, M. Capizzi, S. Mazzuccato, A. Polimeni
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Effective Phonon Bottleneck in the Carrier Thermalization of InAs/GaAs Quantum Dots
(Planned) journal: Physical Review B
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2008-02-15
• ID: 01298
Authors: L. Nasi, C. Bocchi, F. Germini, M. Prezioso, E. Gombia, R. Mosca, P. Frigeri, G. Trevisi, L. Seravalli, and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Defects in nanostructures with ripened InAs/GaAs quantum dots
(Planned) journal: Journal of Materials Science: Materials in Electronics; doi: 10.1007/s10854-008-9657-6
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-15
• ID: 01297
Authors: L. Cavigli, L. Lunghi M. Abbarchi, A. Vinattieri, B. Alloing, C. Zinoni, A. Fiore, A. Gerardino, P. Frigeri, L. Seravalli, S. Franchi, M. Gurioli
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Purcell Effect In Micropillars With Oxidized Bragg Mirrors
(Planned) journal: physica status solidi (c), 5, 2433 (2008); doi: 10.1002/pssc.200777617
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2008-02-15
• ID: 01296
Authors: L. Cavigli, L. Lunghi M. Abbarchi, A. Vinattieri, B. Alloing, C. Zinoni, A. Fiore, A. Gerardino P. Frigeri L. Seravalli, S. Franchi, M. Gurioli
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Purcell Effect In Micropillars With Oxidized Bragg Mirrors
(Planned) event: 10th Conference on the "Optics of Excitons in Confined Systems" (OECS-10) Messina (Italy)
(Planned) date of presentation: 2007-09-10 to 2007-09-13
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2008-02-15
• ID: 01295
Authors: P. Frigeri, L. Nasi, M. Prezioso, L. Seravalli, G. Trevisi, E. Gombia, R. Mosca, F. Germini, C. Bocchi, S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Effects of the quantum dot ripening in high-coverage InAs/GaAs nanostructures
(Planned) journal: Journal of Applied Physics, 102, 083506 (2007)

(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-15
 • **ID:** 01294
Authors: A. Kleinsorge, T. Hammerschmidt, and P. Kratzer
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Annealing of overgrown InAs/GaAs quantum dots: a tight-binding study
(Planned) event: Spring Meeting of the German Physical Society, Berlin
(Planned) date of presentation: 2008-02-26
Research paper in international journal? (y/n): n
Status: contributed
Submitted to Network Office: 2008-02-15
 • **ID:** 01293
Authors: : M. R. Krause, A. J. Stollenwerk, J. Reed, V. P. LaBella, M. Hortamani, P. Kratzer und M. Scheffler
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Electronic structure changes of Si(001) (2×1) from subsurface Mn observed by STM
(Planned) journal: Phys. Rev. B 75, 205326 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-15
 • **ID:** 01292
Authors: M. Hortamani, P. Kratzer und M. Scheffler
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Density-functional study of Mn-mono-silicide on Si(001) and Si(111) surfaces: film formation versus island nucleation
(Planned) journal: Phys. Rev. B 76, 235426 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-15
 • **ID:** 01291
Authors: T. Hammerschmidt, P. Kratzer and M. Scheffler
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Analytic Many-Body Potential for the Investigation of InAs/GaAs Surfaces and Nanostructures: Application to the Formation Energy of InAs Quantum-Dots
(Planned) journal: Phys. Rev. B 77, 235303 (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-15
 • **ID:** 01290
Authors: P. J. Carrington, V. A. Solov'eva, Q. Zhuang, S. V. Ivanov and A. Krier
Authors - SANDiE partners: P29 (Uni Lancaster, P26 (Ioffe)
Title: Type II InSb/InAs quantum dot structures grown by molecular beam epitaxy using Sb₂ and As₂ fluxes
(Planned) journal: conference proceedings for oral presentation at SPIE Photonics West 2008, San Jose, CA, USA, 6900-16 (Invited Paper)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2008-02-14
 • **ID:** 01289
Authors: K. Veselinov, F. Grillot, C. Cornet, J. Even, A. Bekiarski, M. Gioannini et S. Loualiche
Authors - SANDiE partners: P12 (INSA-LENS)
Title: Analysis of the Double Laser Emission Occurring in 1.55 μm InAs/InP (113)B Quantum-Dot Lasers
(Planned) journal: IEEE Journal of Quantum Electronics, 2007. 43(9): p. 810-16
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-13
 • **ID:** 01288
Authors: J. M. Ulloa, P. M. Koenraad, E. Gapihan, A. Letoublon et N. Bertru
Authors - SANDiE partners: P12 (INSA-LENS), P07 (TU Eindhoven)
Title: Double capping of molecular beam epitaxy grown InAs/InP quantum dots studied by cross-sectional scanning tunneling microscopy
(Planned) journal: Applied Physics Letters, 2007. 91(7): p. 073106-3
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-13
 • **ID:** 01287
Authors: L. Pedesseau, J. Even, F. Doré et C. Cornet
Authors - SANDiE partners: P12 (INSA-LENS)
Title: Atomic Calculations Applied to Semiconductor Hetero Structures
(Planned) journal: Computation in Modern Science and Engineering, 2007. 963(2): p. 1331-4
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-13

- **ID:** 01286
Authors: N. Massé, E. Homeyer, I. P. Marko, A. R. Adams, S. J. Sweeney, O. Dehaese, R. Piron, F. Grillot et S. Loualiche
Authors - SANDiE partners: P12 (INSA-LENS)
Title: Temperature and pressure dependence of the recombination processes in 1.5 μm InAs/InP(311)B quantum dot lasers
(Planned) journal: Applied Physics Letters, 2007. 91: p. 131113
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-13
- **ID:** 01285
Authors: E. Homeyer, R. Piron, F. Grillot, O. Dehaese, K. Tavernier, E. Macé, A. LeCorre et S. Loualiche
Authors - SANDiE partners: P12 (INSA-LENS)
Title: First demonstration of a 1.52 μm RT InAs/InP(3 1 1)B laser with an active zone based on a single QD layer
(Planned) journal: Semiconductor Science and Technology, 2007. 22: p. 827-30
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-13
- **ID:** 01284
Authors: E. Homeyer, R. Piron, F. Grillot, O. Dehaese, K. Tavernier, E. Macé, J. Even, A. Le Corre et S. Loualiche
Authors - SANDiE partners: P12 (INSA-LENS)
Title: Demonstration of a Low Threshold Current in 1.54 μm InAs/InP(311)B Quantum Dot Laser with Reduced Quantum Dot Stacks
(Planned) journal: Japanese Journal of Applied Physics, 2007. 46(10): p. 6903-05
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-13
- **ID:** 01283
Authors: J. Even, F. Dore, C. Cornet, L. Pedesseau, A. Schliwa et D. Bimberg
Authors - SANDiE partners: P12 (INSA-LENS), P04 (TU Berlin)
Title: Semianalytical evaluation of linear and nonlinear piezoelectric potentials for quantum nanostructures with axial symmetry
(Planned) journal: Applied Physics Letters, 2007. 91(12): p. 122112-3
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-13
- **ID:** 01282
Authors: I. Alghoraibi, T. Rohel, R. Piron, N. Bertru, C. Paranthoen, G. Elias, A. Nakkar, H. Folliot, A. L. Corre et S. Loualiche
Authors - SANDiE partners: P12 (INSA-LENS)
Title: Negative characteristic temperature of long wavelength InAs/AlGaInAs quantum dot lasers grown on InP substrates
(Planned) journal: Applied Physics Letters, 2007. 91(26): p. 261105
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-13
- **ID:** 01281
Authors: T. Ben, A. M. Beltrán, B. Hennequin, L. Turyanska, A. Patané, N.R. Thomas, S. I. Molina
Authors - SANDiE partners: P17 (Uni Cádiz), P09 (Uni Nottingham)
Title: Análisis del encapsulamiento por nanorreacción y re-ensamblamiento de puntos cuánticos de PbS en apoferritina para emisión infrarroja
(Planned) event: X Congreso Nacional de Materiales
(Planned) date of presentation: 2008-06-18 to 2008-06-20
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2008-02-12
- **ID:** 01280
Authors: C. Czekalla, J. Guinard, C. Hanisch, B. Cao, E.M. Kaidashev, N. Boukos, A. Travlos, J. Renard, B. Gayral, D. Le Si Dang, M. Lorenz, M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Spatial fluctuations of the optical emission from single ZnO/MgZnO nanowire quantum wells
(Planned) journal: Nanotechnology 19 (2008) 115202 (6pp)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-12
- **ID:** 01279
Authors: H. Groiss, E. Kaufmann, G. Springholz, T. Schwarzl, G. Hesser, F. Schäffler, W. Heiss, K. Koike, T. Itakura, T. Hotei, M. Yano, T. Wojtowicz
Authors - SANDiE partners: P18 (Uni Linz)
Title: Size control and midinfrared emission of epitaxial PbTe/CdTe quantum dot precipitates grown by molecular beam epitaxy
(Planned) journal: Appl. Phys. Lett. 91, 222106-1/3 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-12
- **ID:** 01278
Authors: W. Heiss, H. Groiss, E. Kaufmann, G. Hesser, M. Böberl, G. Springholz, F. Schäffler, R. Leitsmann, F. Bechstedt, K. Koike, H.

Harada, M. Yano

Authors - SANDiE partners: P18 (Uni Linz)

Title: Quantum dots with coherent interfaces between rocksalt-PbTe and zincblende-CdTe

(Planned) journal: Appl. Phys. 101, 081723-1/5 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n):y

Status: published

Submitted to Network Office: 2008-02-12

• **ID:** 01277

Authors: W. Heiss, M. Böberl, T. Schwarzl, G. Springholz, J. Fürst, H. Pascher

Authors - SANDiE partners: P18 (Uni Linz)

Title: Applications of lead-salt microcavities for mid-infrared devices

(Planned) journal: Proc. IEEE-Optoelectronics

(Planned) date of publication: 2008

Research paper in international journal? (y/n): y

Status: in print

Submitted to Network Office: 2008-02-12

• **ID:** 01276

Authors: G. Lecamp, J. P. Hugonin, P. Lalanne, R. Braive, S. Varoutsis, S. Laurent, A. Lemaître, I. Sagnes, G. Patriarche, I. Robert-Philip and I. Abram

Authors - SANDiE partners: P11 (LPN)

Title: Submicron-diameter semiconductor pillar microcavities with very high quality factors

(Planned) journal: Appl. Phys. Lett. 90, 091120 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-02-12

• **ID:** 01275

Authors: M. Larqué, A. Beveratos and I. Robert-Philip

Authors - SANDiE partners: P11 (LPN)

Title: Entangling single photons on a beamsplitter

(Planned) journal: Eur. Phys. J. D.

(Planned) date of publication: 2008

Research paper in international journal? (y/n): y

Status: in print

Submitted to Network Office: 2008-02-12

• **ID:** 01274

Authors: A. P. Vasil'ev, A. G. Gladyshev, A. E. Zhukov, N. V. Kryzhanovskaya, V. S. Mikhlin, Yu. G. Musikhin, V. S. Petrov, V. V. Ratnikov, N. M. Shmidt

Authors - SANDiE partners: P26 (Ioffe)

Title: Metamorphic InAs quantum dots: Photoluminescence features related to cooperative phenomena in the quantum dot-matrix system

(Planned) journal: Pis'ma v ZhTF (in Russian), 33(14), 10-18 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n):n

Status: published

Submitted to Network Office: 2008-02-06

• **ID:** 01273

Authors: O.A.Neucheva, A.A.Evstrapov, Yu.B.Samsonenko, G.E.Cirlin

Authors - SANDiE partners: P26 (Ioffe)

Title: Interaction of optical radiation with GaAs nanowhisker arrays

(Planned) journal: Pis'ma v ZhTF (in Russian), 33(21), pp. 56-62 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): n

Status: published

Submitted to Network Office: 2008-02-06

• **ID:** 01272

Authors: O. M.V.Maximov, A.E.Zhukov, Yu.M.Shernyakov, V.M.Ustinov, I.I.Novikov, N.Yu.Gordeev, I. Krestnikov, D. Livshits, S. Mikhlin, A. Kovsh

Authors - SANDiE partners: P26 (Ioffe), P28 (INNOLUME)

Title: 1.32 μm quantum dot laser with a 45 cm⁻¹ modal gain

(Planned) journal: Appl. Phys. Lett

(Planned) date of publication: 2008

Research paper in international journal? (y/n): y

Status: submitted

Submitted to Network Office: 2008-02-06

• **ID:** 01271

Authors: O. M.V.Maximov, Yu.M.Shernyakov, I.I.Novikov, L.Ya.Karachinsky, N.Yu.Gordeev, U.Ben-Ami, D.B.Arbiv, A.Sharon, V.A.Shchukin, N.N.Ledentsov, T.Kettler, K.Posilovic, and D.Bimberg

Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin)

Title: High power low beam divergence edge emitting semiconductor lasers with one and two-dimensional photonic band gap crystal waveguide

(Planned) journal: IEEE Journal of Selected Topics in Quantum Electronics

(Planned) date of publication: 2008

Research paper in international journal? (y/n):y

Status: accepted

Submitted to Network Office: 2008-02-06

- **ID:** 01270
Authors: 8. Fang-I Lai, H.P.D.Yang, G.Lin, I-Chen Hsu, Jui-Nung Liu, N.A.Maleev, S.A.Blokhin, H.C.Kuo, J.Y.Chi
Authors - SANDiE partners: P26 (Ioffe)
Title: High-Power Single-Mode Submonolayer Quantum-Dot Photonic Crystal Vertical-Cavity Surface-Emitting Lasers
(Planned) journal: Journal of Selected Topics in Quantum Electronics, 13, 1318-1323 (2007).
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-06
- **ID:** 01269
Authors: A. G. Kuzmenkov, V. M. Ustinov, G. S. Sokolovskii, N. A. Maleev, S. A. Blokhin, A. G. Deryagin, S. V. Chumak, A. S. Shulenkov, S. S. Mikhlin, A. R. Kovsh, A. D. McRobbie, W. Sibbett, M. A. Cataluna and E. U. Rafailov
Authors - SANDiE partners: P26 (Ioffe), P28 (INNOLUME)
Title: Self-sustained pulsation in the oxide-confined vertical-cavity surface emitting lasers based on submonolayer InGaAs quantum dots
(Planned) journal: Appl. Phys. Lett. 91, 121106 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-06
- **ID:** 01268
Authors: L.Ya.Karachinsky, M.Kuntz, G.Fiol, V.A.Schchukin, N.N.Ledentsov, D.Bimberg, A.R.Kovsh, S.S.Mikhlin, I.I.Novikov, Yu.M.Shernyakov, M.V.Maximov
Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin), P28 (INNOLUME)
Title: High-power wavelength stabilized 970 nm Tilted Cavity Laser with a 41.3 dB Side Mode Suppression Ratio
(Planned) journal: Applied Physics Letters, v. 91(24), 241112 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-06
- **ID:** 01267
Authors: V.G. Dubrovskii, N.V. Sibirev, R.A. Suris, G.E. Cirlin, J.C. Harmand, V.M. Ustinov
Authors - SANDiE partners: P26 (Ioffe), P11 (LPN/CNRS)
Title: Diffusion-controlled growth of semiconductor nanowires: Vapor pressure versus high vacuum deposition
(Planned) journal: Surf.Sci., v. 601, 2007, p.4395-4401
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-06
- **ID:** 01266
Authors: V.G.Dubrovskii and N.V.Sibirev
Authors - SANDiE partners: P26 (Ioffe)
Title: Growth thermodynamics of nanowires and its application to polytypism of zinc blende III-V nanowires
(Planned) journal: Phys. Rev. B, 2008, v. 77, 035414
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-06
- **ID:** 01265
Authors: 2. V. G. Dubrovskii; I. P. Soshnikov; A. A. Tonkikh; V. M. Ustinov; G. E. Cirlin; Yu. B. Samsonenko
Authors - SANDiE partners: P26 (Ioffe)
Title: MBE Growth Of GaAs Nanowhiskers Stimulated By The Adatom Diffusion
(Planned) journal: International Journal Of Nanoscience, V.6., P.225-231 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-06
- **ID:** 01264
Authors: I. S.A.Blokhin, A.V.Sakharov, A.M.Nadochy, M.M.Kulagina, Yu.M.Zadiranov, N.Yu.Gordeev, M.V.Maximov, V.M.Ustinov, N.N.Ledentsov, E.Stock, T.Warming, D.Bimberg
Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin)
Title: The impact of thermal effects on emission characteristics of asymmetrical AlGaO-waveguide microdisks based on quantum dots
(Planned) journal: Applied Physical Letters, 91, 121108 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-02-06
- **ID:** 01263
Authors: Virginie Chamard, Julian Stangl, Stephane Labat, Bernhard Mandl, Rainer T. Lechner and Till. H. Metzger
Authors - SANDiE partners: P18 (Uni Linz), P06 (Uni Lund)
Title: Evidence of stacking fault distribution along an InAs nanowire using micro-focussed coherent x-ray diffraction
(Planned) journal: J. Appl. Cryst.
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: in print
Submitted to Network Office: 2008-01-21
- **ID:** 01262
Authors: V. Holy, K. Mundboth, C. Mocuta, T. H. Metzger, J. Stangl, G. Bauer, T. Boeck, M. Schmidbauer

Authors - SANDiE partners: P18 (Uni Linz), P23 (MPI Stuttgart)
Title: Structural characterization of self-assembled semiconductor islands by three-dimensional x-ray diffraction mapping in reciprocal space
(Planned) journal: Thin Solid Films
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: in print
Submitted to Network Office: 2008-01-21
 • ID: 01261

Authors: M. Brehm, T. Suzuki, Z. Zhong, T. Fromherz, J. Stangl, G. Hesser, S. Birner, F. Schäffler, G. Bauer
Authors - SANDiE partners: P18 (Uni Linz), P23 (MPI Stuttgart)
Title: Bandstructure and photoluminescence of SiGe islands with controlled Ge concentration
(Planned) journal: Microelectronic Journal (2007), doi: 10.1016/j.mejo.2007.07.111.
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-01-21
 • ID: 01260

Authors: D. Grützmacher, T. Fromherz, C. Dais, J. Stangl, E. Müller, Y. Ekinci, H. H. Solak, H. Sigg, R. T. Lechner, E. Wintersberger, S. Birner, V. Holy, G. Bauer
Authors - SANDiE partners: P18 (Uni Linz), A02 (Uni Prag), P23 (MPI Stuttgart)
Title: Three-dimensional Si/Ge quantum dot crystals
(Planned) journal: NanoLetters 7, 3150-3156 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-01-21
 • ID: 01259

Authors: J. J. Zhang, M. Stoffel, A. Rastelli, O. G. Schmidt, V. Jovanovic, L. K. Nanver, G. Bauer
Authors - SANDiE partners: P18 (Uni Linz), P23 (MPI Stuttgart)
Title: SiGe growth on patterned Si(001) substrates: surface evolution and evidence of modified island coarsening
(Planned) journal: Appl. Phys. Lett. 91, 173115-1/3 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-01-21
 • ID: 01258

Authors: G. Chen, H. Lichtenberger, G. Bauer, W. Jantsch, F. Schäffler
Authors - SANDiE partners: P18 (Uni Linz)
Title: Ordering of strained Ge islands on prepatterned Si(001) substrates: Morphological evolution and nucleation mechanisms
(Planned) journal: In: Proceedings of the 28th International Conference on the Physics of Semiconductors, Vienna, Austria, 24-28 July 2006 (AIP Conference Proceedings Vol. 893), eds.: W. Jantsch, F. Schäffler, Melville, NY, 2007, pp. 39-40
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2008-01-21
 • ID: 01257

Authors: B. Mandl, J. Stangl, T. Mårtensson, M. Brehm, T. Fromherz, G. Bauer, L. Samuelson, W. Seifert
Authors - SANDiE partners: P18 (Uni Linz), P06 (Uni Lund)
Title: Metal free growth and characterization of InAs_{1-x}Px nanowires
(Planned) journal: In: Proceedings of the 28th International Conference on the Physics of Semiconductors, Vienna, Austria, 24-28 July 2006 (AIP Conference Proceedings Vol. 893), eds.: W. Jantsch, F. Schäffler, Melville, NY, 2007, pp. 97-98
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2008-01-21
 • ID: 01256

Authors: E. E. Vdovin, Yu. N. Khanin, P. L. Shabelnikova, L. Eaves, and M. Henini
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Single-Electron Spin-Dependent Transport in Split-Gate Structures Containing Self-Assembled Quantum Dots
(Planned) journal: Bulletin of the Russian Academy of Sciences: Physics, 2007, Vol. 71, No. 8, pp. 1124–1126
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-01-12
 • ID: 01255

Authors: Yu. N. Khanin, E. E. Vdovin, L. Eaves, I. A. Larkin, A. Patane, O. N. Makarovski, and M. Henini
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Magnetic-Field-Induced Fermi-Edge Singularity in the Tunneling Current through an InAs Self-Assembled Quantum Dot
(Planned) journal: Journal of Experimental and Theoretical Physics, 2007, Vol. 105, No. 1, pp. 152–154
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2008-01-12
 • ID: 01254

Authors: E. E. Vdovin, Yu. N. Khanin, P. L. Shabel'nikova, A. Levin, L. Eaves, S. V. Dubonos, and M. Henini
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: One-Electron Spin-Dependent Transport in Split-Gate Structures Containing Self-Organized InAs Quantum Dots

(Planned) journal: Journal of Experimental and Theoretical Physics, 2007, Vol. 105, No. 1, pp. 145–148

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-01-12

• **ID:** 01253

Authors: S. Godefroo, M. Hayne, M. Jivanescu, A. Stesmans, M. Zacharias, O. Lebedev, G. Van Tendeloo and V. V. Moshchalkov

Authors - SANDiE partners: P02 (KU Leuven), P29 (Uni Lancaster), P03 (Uni Antwerpen)

Title: Classification and control of the origin of photoluminescence from Si nanocrystals

(Planned) journal: Nature Nanotechnology 3, 174-178 (2008)

(Planned) date of publication: 2008

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2008-01-03

• **ID:** 01252

Authors: S.H. Oh, K. van Benthem, S.I. Molina, P. Werner, D. Kumar, S.J. Pennycook

Authors - SANDiE partners: P17 (Uni Cádiz), P05 (MPI Halle)

Title: Characterization of Gold on Silicon Nanowires using Aberration-corrected STEM

(Planned) journal: Microscopy and Microanalysis 13(Suppl 2) (2007) 758-759

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-12-17

• **ID:** 01251

Authors: S. I. Molina, M. Varela, D. L. Sales, T. Ben, J. Pizarro, P. L. Galindo, D. Fuster, Y. González, L. González and S. J. Pennycook

Authors - SANDiE partners: P17 (Uni Cádiz), P22 (CSIC Madrid)

Title: Determination of the strain field in nano-objects from aberration-corrected Zcontrast images

(Planned) journal: Microscopy and Microanalysis 13(Suppl 2) (2007) 746-747

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-12-17

• **ID:** 01250

Authors: P.J. Carrington, V.A. Solov'ev, Q. Zhuang, S.V. Ivanov, and A. Krier

Authors - SANDiE partners: P29 (Uni Lancaster), P26 (Ioffe)

Title: InSb Quantum Dot LEDs Grown by Molecular Beam Epitaxy for Mid-infrared Applications

(Planned) event: One Day Quantum Dot Meeting The Blackett Laboratory, Imperial College London

(Planned) date of presentation: 2008-01-11

Research paper in international journal? (y/n): n

Status: submitted

Submitted to Network Office: 2007-12-10

• **ID:** 01249

Authors: B. Bansal, M. Hayne, M. Geller, D. Bimberg and V. V. Moshchalkov

Authors - SANDiE partners: P02 (KU Leuven), P29 (Uni Lancaster), P04 (TU Berlin)

Title: Excitonic Mott-Transitions in Type-II Quantum Dots

(Planned) event: One Day Quantum Dot Meeting The Blackett Laboratory, Imperial College London

(Planned) date of presentation: 2008-01-11

Research paper in international journal? (y/n): n

Status: submitted

Submitted to Network Office: 2007-12-10

• **ID:** 01248

Authors: Oleg Kolosov, Manus Hayne, Antony Krier, Mohamed Henini

Authors - SANDiE partners: P29 (Uni Lancaster), P09 (Uni Nottingham)

Title: Direct subsurface imaging of iii-v semiconductor nanostructures via Ultrasonic Force Microscopy

(Planned) event: One Day Quantum Dot Meeting The Blackett Laboratory, Imperial College London

(Planned) date of presentation: 2008-01-11

Research paper in international journal? (y/n): n

Status: submitted

Submitted to Network Office: 2007-12-10

• **ID:** 01247

Authors: Julien Houel, Sébastien Sauvage, Philippe Boucaud, Alexandre Dazzi, Rui Prazeres, François Glotin, Jean-Michel Ortéga, Audrey Miard, Aristide Lemaître

Authors - SANDiE partners: P11 (LPN/CNRS), P13 (Uni Paris)

Title: Ultraweak-absorption microscopy of a single semiconductor quantum dot in the mid-infrared range

(Planned) journal: Physical Review Letter

(Planned) date of publication: 2007-11-23

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-12-06

• **ID:** 01246

Authors: S. H. Oh, K. van Benthem, S. I. Molina, P. Werner, D. Kumar, S. J. Pennycook

Authors - SANDiE partners: P17 (Uni Cádiz), P05 (MPI Halle)

Title: Characterization of Gold Atoms on Silicon Nanowires using Aberration-corrected STEM

(Planned) event: Microscopy and Microanalysis 2007 Fort Lauderdale, Florida, EEUU

(Planned) date of presentation: 2007-08-05 to 2007-08-09

Research paper in international journal? (y/n): n

Status: presented
Submitted to Network Office: 2007-11-30
ID: 01245
Authors: S. I. Molina, M. Varela, D. L. Sales, T. Ben, J. Pizarro, P. L. Galindo, D. Fuster, Y. González, L. González, S. J. Pennycook
Authors - SANDiE partners: P17 (Uni Cádiz), P22 (CSIC Madrid)
Title: Determination of the strain field in nano-objects from aberration-corrected Z-contrast images
(Planned) event: Microscopy and Microanalysis 2007 Fort Lauderdale, Florida, EEUU
(Planned) date of presentation: 2007-08-05 to 2007-08-09
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-11-30
ID: 01244
Authors: S. I. Molina, M. Varela, D. L. Sales, P. L. Galindo, D. Fuster, Y. González, B. Alén, L. González, S. J. Pennycook
Authors - SANDiE partners: P17 (Uni Cádiz), P22 (CSIC Madrid)
Title: A phenomenological approach to quantify the composition of semiconductor materials from high-resolution Z-contrast images
(Planned) event: MRS Fall meeting Boston, MA, USA, oral talk
(Planned) date of presentation: 2007-11-25 to 2007-11-30
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-11-30
ID: 01243
Authors: S I Molina, A M Sánchez, A M Beltrán, D L Sales, T Ben, M F Chisholm, M Varela, S J Pennycook, P L Galindo, A. J. Papworth, P. J. Goodhew, J M Ripalda
Authors - SANDiE partners: P17 (Uni Cádiz), P22 (CSIC Madrid)
Title: Incorporation of Sb in InAs/GaAs quantum dots
(Planned) journal: Appl. Phys. Lett. 91, 263105 (2007)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-11-30
ID: 01242
Authors: A. Matulis and F. M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen), A04 (Semiconductor Physics Institute Vilnius)
Title: Quasi-bound states of quantum dots in single and bilayer graphene
(Planned) journal: Phys. Rev. B 77, 115423 (2008) (7pages)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-11-27
ID: 01241
Authors: B. Cao, M. Lorenz, M. Brandt, H. von Wenckstern, J. Lenzner, G. Biehne, M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: p-type conducting ZnO:P microwires prepared by direct carbothermal growth
(Planned) journal: phys. stat sol. (RRL) 2, 37 (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-11-23
ID: 01240
Authors: B.Q. Cao, M. Lorenz, A. Rahm, H. von Wenckstern, C. Czekalla, J. Lenzner, G. Benndorf, M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Phosphorous acceptor doped ZnO nanowires prepared by pulsed laser deposition
(Planned) journal: Nanotechnology 18, 455707 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-11-23
ID: 01239
Authors: Thomas Nobis, Andreas Rahm, Christian Czekalla, Michael Lorenz, Marius Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Optical whispering gallery modes in dodecagonal zinc oxide microcrystals
(Planned) journal: Superlattices and Microstructures 42, 333 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-11-23
ID: 01238
Authors: R. Schmidt-Grund, B. Rheinländer, T. Gühne, H. Hochmuth, V. Gottschalch, A. Rahm, J. Lenzner, and M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: ZnO micro-pillar resonators with coaxial Bragg reflectors
(Planned) journal: Proc. Int. Conf. on the Physics of Semiconductors (ICPS-28), Wien, Austria, 2006, W. Jantsch, F. Schäffler, eds.; AIP Conf. Proc. 893, 1137 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-11-23

- **ID:** 01237
Authors: Thomas Nobis, Andreas Rahm, Michael Lorenz, Marius Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Temperature dependence of the whispering gallery effect in ZnO nanoresonators
(Planned) journal: Proc. Int. Conf. on the Physics of Semiconductors (ICPS-28), Wien, Austria, 2006, W. Jantsch, F. Schäffler, eds.; AIP Conf. Proc. 893, 1057 (2007)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-11-23
- **ID:** 01236
Authors: Daniel Fritsch, Heidemarie Schmidt, and Marius Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Calculated optical properties of wurtzite GaN and ZnO
(Planned) journal: Proc. Int. Conf. on the Physics of Semiconductors (ICPS-28), Wien, Austria, 2006, W. Jantsch, F. Schäffler, eds.; AIP Conf. Proc. 893, 325 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-11-23
- **ID:** 01235
Authors: A.O. Ankiewicz, W. Gehlhoff, E.M. Kaidashev, A. Rahm, M. Lorenz, M. Grundmann, M.C. Carmo, N.A. Sobolev
Authors - SANDiE partners: P01 (Uni Leipzig), P04 (TU Berlin), P15 (Uni Aveiro)
Title: Electron Paramagnetic Resonance Characterization of Mn- and Co-Doped ZnO Nanowires
(Planned) journal: Proc. Int. Conf. on the Physics of Semiconductors (ICPS-28), Wien, Austria, 2006, W. Jantsch, F. Schäffler, eds.; AIP Conf. Proc. 893, 63 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-11-23
- **ID:** 01234
Authors: A. Rahm, E.M. Kaidashev, H. Schmidt, M. Diaconu, A. Pöpl, R. Böttcher, C. Meinecke, T. Butz, M. Lorenz, M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Growth and characterization of Mn- and Co-doped ZnO nanowires
(Planned) journal: Microchimica Acta 156, 21-25 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-11-23
- **ID:** 01233
Authors: Marius Grundmann, Andreas Rahm, Thomas Nobis, Michael Lorenz, Christian Czekalla, Evgeni M. Kaidashev, Jörg Lenzner
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Growth and characterization of ZnO nano- and microstructures
(Planned) journal: in: Handbook for Self-Assembled Semiconductor Nanostructures for Novel Devices in Photonics and Electronics, M. Henini, ed. (Elsevier, 2007), in press
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: in press
Submitted to Network Office: 2007-11-23
- **ID:** 01232
Authors: J. Zuniga-Perez, A. Rahm, C. Czekalla, J. Lenzner, M. Lorenz, M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Ordered growth of tilted ZnO nanowires: morphological, structural and optical characterization
(Planned) journal: Nanotechnology 18, 195303 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-11-23
- **ID:** 01231
Authors: S. Jaensch, H. Schmidt, M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Quantitative scanning capacitance microscopy
(Planned) journal: Physica B: Condensed Matter 376-377, 913 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-11-23
- **ID:** 01230
Authors: A. F. Slachmuylders, B. Partoens, W. Magnus, F. M. Peeters
Authors - SANDiE partners: P03 (Universiteit Antwerpen)
Title: Effect of a metallic gate on the energy levels of a shallow donor
(Planned) journal: Appl. Phys. Lett. 92, 083104 (2008) (3 pages)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-11-20

- **ID:** 01229
Authors: B. Hennequin, L. Turyanska, T. Ben, A.M. Beltrán, S. I. Molina, A. Patanè, N. R. Thomas
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Biocompatible aqueous near infrared fluorescent labels based on apoferritin-encapsulated PbS quantum dots
(Planned) journal: Advanced Materials
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2007-11-05
- **ID:** 01228
Authors: H. Eisele, A. Lenz, R. Heitz, R. Timm, M. Dähne, I. Y. Temko, T. Suzuki, and K. Jacobi
Authors - SANDiE partners: P04 (TU Berlin), P27 (FHI Berlin)
Title: Change of InAs/GaAs quantum dot shape and composition during capping
(Planned) journal: Phys. Rev. Lett.
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2007-10-26
- **ID:** 01227
Authors: V.A. Shchukin, N.N. Ledentsov, L.Ya. Karachinsky, I.I. Novikov, Yu.M. Shernyakov, N.Yu. Gordeev, M.V. Maximov, M.B. Lifshits, A.V. Savelyev, A.R. Kovsh, I.L. Krestnikov, S.S. Mikhrin, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe), P28 (INNOLUME)
Title: A high-power 975 nm tilted cavity laser with a 0.13 nm K-1 thermal shift of the lasing wavelength
(Planned) journal: Semiconductor Science and Technology, 22 (2007) 1061-1065
(Planned) date of publication: 2007-08-22
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-10-26
- **ID:** 01226
Authors: T. Vallaitis, C. Koos, B.-A. Bolles, R. Bonk, W. Freude, M. Laemmlin, C. Meuer, D. Bimberg, J. Leuthold
Authors - SANDiE partners: P04 (TU Berlin)
Title: Quantum Dot Semiconductor Optical Amplifier at 1.3 μ m for Ultra-Fast Cross-Gain Modulation
(Planned) event: 33rd Europ. Conference and Exhibition on Optical Communication, Berlin, Germany, September 16-20, 2007
(Planned) date of presentation: 2007-09-19 (Talk)
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-26
- **ID:** 01225
Authors: J. Kim, M. Laemmlin, C. Meuer, S. Liebich, D. Bimberg and G. Eisenstein
Authors - SANDiE partners: P04 (TU Berlin)
Title: Engineering Spectral Hole Burning and Carrier Exhaustion Mechanisms on the Gain Saturation Behavior of Quantum-Dot Optical Amplifiers
(Planned) event: 33rd Europ. Conference and Exhibition on Optical Communication, Berlin, Germany, September 16-20, 2007
(Planned) date of presentation: 2007-09-16 to 2007-09-20 (Poster)
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-26
- **ID:** 01224
Authors: M. Geller, A. Marent, T. Nowozin, Y. Beyer, N. Akcay, N. Öncan, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: A semiconductor memory based on quantum dots (poster)
(Planned) event: 7th Int. Workshop on Future Information Processing Technologies, Dresden, Germany, September 4-7, 2007
(Planned) date of presentation: 2007-09-04 to 2007-09-07
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-26
- **ID:** 01223
Authors: M. Laemmlin and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: High Speed Optical Amplification Based on Quantum Dots for the 100 G Ethernet (invited talk)
(Planned) event: Nonlinear Photonics (NP 2007) OSA Topical Meeting, Quebec, Canada, September 2-6, 2007
(Planned) date of presentation: 2007-09-04
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-26
- **ID:** 01222
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Onion-like growth and inverted many-particle energies in quantum dots (invited talk)
(Planned) event: 11th Int. Conf. on the Formation of Semiconductor Interfaces, Manaus, Brazil, August 19-24, 2007
(Planned) date of presentation: 2007-08-20
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-26
- **ID:** 01221
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)

Title: Quantum dots: Genesis, the excitonic zoo, and its applications (invited talk)
(Planned) event: Int. Nano-Optoelectronic Workshop (NOW 2007), Beijing, China, July 29 - August 11, 2007
(Planned) date of presentation: 2007-07-30
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-26
• ID: 01220
Authors: R. Timm, A. Lenz, L. Ivanova, H. Eisele, G. Balakrishnan, D. L. Huffaker, I. Farrer, D. A. Ritchie, T. Warming, D. Bimberg, and M. Dähne
Authors - SANDiE partners: P04 (TU Berlin)
Title: Growth, atomic structure and type-II band alignment of GaSb/GaAs nanostructures: Quantum wells, dots, and rings
(Planned) event: 13th Int. Conf. on Modulated Semiconductor Structures (MSS 13), Genua, Italy, July 15-20, 2007
(Planned) date of presentation: 2007-07-15 to 2007-07-20
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-26
• ID: 01219
Authors: A. Lenz, H. Eisele, R. Timm, L. Ivanova, H.-Y. Liu, M. Hopkinson, and M. Dähne
Authors - SANDiE partners: P04 (TU Berlin), P08 (Uni Sheffield)
Title: Structural investigation of InAs/InGaAs dots-in-a-well nanostructures
(Planned) event: 13th Int. Conf. on Modulated Semiconductor Structures (MSS 13), Genua, Italy, July 15-20, 2007
(Planned) date of presentation: 2007-07-15 to 2007-07-20
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-26
• ID: 01218
Authors: T.D. Germann, A. Strittmatter, T. Kettler, U.W. Pohl, D. Bimberg, H. Schroeter-Janssen, J. Kreissl, and H. Künzel
Authors - SANDiE partners: P04 (TU Berlin)
Title: InGaAs/GaAs quantum dot lasers with InGaP claddings (poster)
(Planned) event: Long Wavelength Quantum Dots Conference (LWQD 2007) – Growth and Applications, Rennes, France, July 5-6, 2007
(Planned) date of presentation: 2007-07-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-26
• ID: 01217
Authors: D. Franke, M. Möhrle, J. Böttcher, P. Harde, A. Sigmund, H. Künzel, A. Karkatzinou, U.W. Pohl, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: InAs/InP quantum dot lasers for 1.55 μm operation grown using metalorganic vapour phase epitaxy (poster)
(Planned) event: Long Wavelength Quantum Dots Conference (LWQD 2007) – Growth and Applications, Rennes, France, July 5-6, 2007
(Planned) date of presentation: 2007-07-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-26
• ID: 01216
Authors: U.W. Pohl
Authors - SANDiE partners: P04 (TU Berlin)
Title: InGaAs/GaAs quantum dots for 1.3 μm applications (invited talk)
(Planned) event: Long Wavelength Quantum Dots Conference (LWQD 2007) – Growth and Applications, Rennes, France, July 5-6, 2007
(Planned) date of presentation: 2007-07-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-26
• ID: 01215
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Nanostructures for nanoelectronics: No potential for room temperature applications? (invited talk)
(Planned) event: 15 Int. Symp. "Nanostructures: Physics and Technology", Novosibirsk, June 25-29, 2007
(Planned) date of presentation: 2007-06-29
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-26
• ID: 01214
Authors: F. Hopfer, A. Mutig, G. Fiol, M. Kuntz, V. Shchukin, N.N. Ledentsov and D. Bimberg, S.S. Mikhlin, I.L. Krestnikov, D.A. Livshits and A.R. Kovsh
Authors - SANDiE partners: P04 (TU Berlin), P28 (Innolume GmbH)
Title: High Speed 1225 and 1250 nm VCSELs Based on Low-Temperature Grown Quantum Dots
(Planned) event: CLEO/Europe-IQEC Conference at Photonics Congress 2007, Munich, Germany, June 17-22, 2007
(Planned) date of presentation: 2007-06-19
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-26
• ID: 01213
Authors: D L Sales, J Pizarro, P L Galindo, R Garcia, G Trevisi, P Frigeri, L Nasi, S Franchi and S I Molina
Authors - SANDiE partners: P17 (Uni Cadiz), P14 (IMEM Parma)
Title: Critical strain region evaluation of self-assembled semiconductor quantum dots
(Planned) journal: Nanotechnology 18, 475503 (2007)
(Planned) date of publication: 2007-10-19

Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-10-20
• **ID:** 01212
Authors: F. Glas, J.-C. Harmand, G. Patriarche
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Nucleation at the triple phase line and wurtzite formation in nanowires of zinc-blende III-V semiconductors
(Planned) event: 2nd International Conference on One-dimensional Nanomaterials (ICON 2007) (Malmö, Sweden, 27-29 September 2007)
(Planned) date of presentation: 2007-09-27
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-15
• **ID:** 01211
Authors: F. Glas
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Modelling nanowire growth: Nucleation, phase transitions, critical dimensions
(Planned) event: Academia 2007 Workshop "Nanowire growth, simulation and analysis" (Naumburg, Germany, 25 September 2007)
(Planned) date of presentation: 2007-09-25
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-15
• **ID:** 01210
Authors: F. Glas, J.-C. Harmand, G. Patriarche
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Nucleation at the triple line and wurtzite formation in nanowires of zinc-blende III-V semiconductors
(Planned) event: 2nd International Lund workshop on nanowire growth mechanisms (Wire Growth 2007), Lund University (Sweden), 10-11 June 2007
(Planned) date of presentation: 2007-06-10
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-10-15
• **ID:** 01209
Authors: M. Tchernycheva, L. Travers, G. Patriarche, F. Glas, J.-C. Harmand, G. E. Cirlin and V. G. Dubrovskii
Authors - SANDiE partners: P11 (CNRS/LPN), P26 (Ioffe)
Title: Au-assisted molecular beam epitaxy of InAs nanowires: growth and theoretical analysis
(Planned) journal: J. Appl. Phys., 2007, v. 102, 094313
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-10-15
• **ID:** 01208
Authors: F. Glas, J.-C. Harmand, G. Patriarche
Authors - SANDiE partners: P11 (CNRS/LPN)
Title: Why does wurtzite form in nanowires of III-V zinc blende semiconductors?
(Planned) journal: Phys. Rev. Lett. 99, 146101 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-10-15
• **ID:** 01207
Authors: A. Kudelski, A. Lemaître, A. Miard, P. Voisin, T. C. M. Graham, R. J. Warburton, and O. Krebs
Authors - SANDiE partners: P11 (LPN-CNRS), P10 (Heriot-Watt University)
Title: Optically probing the fine structure of a single Mn atom in an InAs quantum dot
(Planned) journal: Phys. Rev. Lett.
(Planned) date of publication: 2007-11
Research paper in international journal? (y/n): y
Status: to be published
Submitted to Network Office: 2007-10-09
• **ID:** 01206
Authors: S. I. Molina, M. Varela, T. Ben, D. L. Sales, J. Pizarro, P. L. Galindo, D. Fuster, Y. González, L. González, S. J. Pennycook
Authors - SANDiE partners: P17 (Uni Cadiz), P22 (CSIC Madrid)
Title: A method to determine the strain and the nucleation sites of stacked nano-objects
(Planned) journal: Journal of Nanoscience and Nanotechnology
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-09-19
• **ID:** 01205
Authors: S. I. Molina, M. Varela, D. L. Sales, T. Ben, J. Pizarro, P. L. Galindo, D. Fuster, Y. González, L. González, S. J. Pennycook
Authors - SANDiE partners: P17 (Uni Cadiz), P22 (CSIC Madrid)
Title: Direct imaging of quantum wires nucleated at diatomic steps
(Planned) journal: Appl. Phys. Lett. 91, 143112 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-09-19

- **ID:** 01204
Authors: D. L. Sales, P. Galindo, J. Pizarro, R. García, G. Trevisi, P. Frigeri, L. Nasi, S. Franchi, S. I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz), P14 (CNR-IMEM)
Title: Evaluación del estado de tensión/ deformación en puntos cuánticos
(Planned) event: XIII Bienal de la Sociedad de Microscopia de España
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-09-14
- **ID:** 01202
Authors: P. Redlinski and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Optical properties of free-standing GaAs semiconductor nanowires and their dependence on the growth direction
(Planned) journal: Phys. Rev. B 77, 075329 (2008) (6 pages), also selected for the March 10, 2008 issue of Virtual Journal of Nanoscale Science & Technology
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-08-30
- **ID:** 01201
Authors: Y. Sidor, B. Partoens, F.M. Peeters, J. Maes, M. Hayne, D. Fuster, Y. González, L. González, and V.V. Moshchalkov
Authors - SANDiE partners: P03 (Uni Antwerpen), P02 (KU Leuven), P22 (CSIC Madrid), P29 (Uni Lancaster)
Title: Exciton energy in InAs/InP quantum wires and quantum wells in the presence of a magnetic field
(Planned) journal: Phys. Rev. B 76 195320 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-08-30
- **ID:** 01200
Authors: A. Vagov, M. D. Croitoru, V. M. Axt, T. Kuhn, F. M. Peeters
Authors - SANDiE partners: P29 (Uni Lancaster)
Title: Non-monotonic field dependence of damping and reappearance of Rabi rotations in quantum dots
(Planned) journal: Phys. Rev. Lett. 98, 227403 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-08-30
- **ID:** 01199
Authors: V. Mlinar and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Optical properties of (In,Ga)As capped InAs quantum dots grown on [11k] substrates
(Planned) journal: Appl. Phys. Lett. 91, 021910 (2007) (3 pages) and July 23, 2007 issue of Virtual Journal of Nanoscale Science & Technology
(Planned) date of publication: 2007-07-11
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-08-30
- **ID:** 01198
Authors: Nga T.T. Nguyen and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Correlated many-electron states in a quantum dot containing a single magnetic impurity
(Planned) journal: Phys. Rev. B 76, 045315 (2007) (8 pages) and July 30, 2007 issue of Virtual Journal of Nanoscale Science & Technology
(Planned) date of publication: 2007-07-16
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-08-30
- **ID:** 01197
Authors: A.F. Slachmuylders, B. Partoens, W. Magnus, and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Trions in cylindrical nanowires with a dielectric mismatch
(Planned) journal: Phys. Rev. B 76, 075405 (2007) and August 20, 2007 issue of Virtual Journal of Nanoscale Science & Technology
(Planned) date of publication: 2007-08-06
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-08-30
- **ID:** 01196
Authors: V. Mlinar and F. M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: A three-dimensional model for artificial atoms and molecules: influence of substrate orientation and magnetic field dependence
(Planned) journal: Journal of Materials Chemistry, Volume 17, Number 35, 21 September 2007, Pages 3657–3748
(Planned) date of publication: 2007-07-16
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-08-30
- **ID:** 01194
Authors: B. D. Gerardot, S. Seidl, P. A. Dalgarno, R. J. Warburton, M. Kroner, K. Karrai, A. Badolato, and P. M. Petroff

Authors - SANDiE partners: P10 (HWU Edinburgh)
Title: Contrast in transmission spectroscopy of a single quantum dot
(Planned) journal: Appl. Phys. Lett. 90, 221106
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-30
 • **ID:** 01193
Authors: S. Seidl, A. Hogele, M. Kroner, K. Karrai, R. J. Warburton, J. M. Garcia, P. M. Petroff
Authors - SANDiE partners: P10 (HWU Edinburgh)
Title: Modulation spectroscopy on a single self assembled quantum dot
(Planned) journal: Phys. Stat. Sol. (a) 204, 381
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-30
 • **ID:** 01191
Authors: R.J. Young
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum light generation and imaging using quantum dots
(Planned) event: Invited talk, Conference on Quantum Phenomena in Confined Dimensions. Italy
(Planned) date of presentation: 2007-06-04
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-07-17
 • **ID:** 01190
Authors: A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum Photonics: the future's not so bright
(Planned) event: Invited talk trinity college science society, UK.
(Planned) date of presentation: 2007-02-15
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-07-17
 • **ID:** 01189
Authors: R. M. Stevenson
Authors - SANDiE partners: P25 (Toshiba)
Title: Triggered entangled photon generation with quantum dots
(Planned) event: Invited Seminar, LPN, France
(Planned) date of presentation: 2007-01-17
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-07-17
 • **ID:** 01188
Authors: R. R. J. Young, S. J. Dewhurst, R. M. Stevenson, A. J. Shields et al.
Authors - SANDiE partners: P25 (Toshiba)
Title: Controlling the polarization correlation of photon pairs from a charge-tunable quantum dot
(Planned) journal: Appl. Phys. Lett. 91, 011114 (2007)
(Planned) date of publication: 2007-07-05
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-17
 • **ID:** 01187
Authors: R. J. Young, D. J. P. Ellis, R. M. Stevenson et al.
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum light generation with a semiconductor quantum dot
(Planned) journal: Proc. IEEE 6468, 40 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-17
 • **ID:** 01186
Authors: R. J. Young, R. M. Stevenson, A. J. Shields et al.
Authors - SANDiE partners: P25 (Toshiba)
Title: Entangled photons from the biexciton cascade of quantum dots
(Planned) journal: J. Applied Phys. 101, 081711 (2007)
(Planned) date of publication: 2007-04-27
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-17
 • **ID:** 01185
Authors: R. M. Stevenson, A. J. Hudson, R. J. Young, P. Atkinson, K. Cooper, D. A. Ritchie, and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Biphoton interference with a quantum dot entangled light source
(Planned) journal: Optics Express, Vol. 15, Issue 10, pp. 6507-6512 (2007)
(Planned) date of publication: 2007-05-11
Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2007-07-17
• **ID:** 01184
Authors: M. B. Ward, T. Farrow, P. See, Z. L. Yuan, O. Z. Karimov, A. J. Bennett, A. J. Shields, P. Atkinson, K. Cooper and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Electrically driven telecom wavelength single photon source
(Planned) journal: Appl. Phys. Lett. 90, 063512 (2007)
(Planned) date of publication: 2007-02-08
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-17
• **ID:** 01183
Authors: D. J. P. Ellis, A. J. Bennett, A. J. Shields, P. Atkinson, I. Farrer and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Oxide-apertured microcavity single photon emitting diode
(Planned) journal: Appl. Phys. Lett. 90, 233514 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-17
• **ID:** 01182
Authors: A. J. Bennett, D. J. P. Ellis, A. J. Shields, P. Atkinson, I. Farrer and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Observation of the Purcell Effect in high index contrast pillar microcavities
(Planned) journal: Appl. Phys. Lett. 91, 191911 (2007)
(Planned) date of publication: 2007-05-10
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-17
• **ID:** 01181
Authors: T. Gebhard, P.L. Souza, F.F. Schrey, G. Strasser, K. Unterrainer, M.P. Pires, S.M. Landi, J.M. Villas-Boas, N. Studart
Authors - SANDiE partners: P24 (TU Wien)
Title: Polarization Dependence of Photocurrent in InAs/InGaAs/InP Quantum-Dot Infrared Photodetectors
(Planned) journal: ISBN: 978-0-7354-0397-0, Conf. Proc. ICPS28, AIP CP893, 443 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-07-12
• **ID:** 01180
Authors: T. Müller, T. Moldaschl, G. Strasser, K. Unterrainer
Authors - SANDiE partners: P24 (TU Wien)
Title: Ultrafast Spectral Hole Burning Spectroscopy of Exciton Spin Relaxation in Quantum Dots
(Planned) journal: ISBN: 978-0-7354-0397-0, Conf. Proc. ICPS28, AIP CP893, 955 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-07-12
• **ID:** 01179
Authors: F. F. Schrey, D. P. Nguyen, N. Regnault, R. Ferreira, G. Bastard, G. Strasser, K. Unterrainer
Authors - SANDiE partners: P24 (TU Wien)
Title: Optical properties of IR quantum dot detectors with miniband tunnel extraction
(Planned) journal: ISBN: 978-0-7354-0397-0, Conf. Proc. ICPS28, AIP CP893, 1423 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-07-12
• **ID:** 01178
Authors: P. Souza, A.J. Lopes, T. Gebhard, K. Unterrainer, M. Pires, J.M. Villas-Boas, N. Guimaraes, N. Studart
Authors - SANDiE partners: P24 (TU Wien)
Title: Quantum dot structures grown on Al containing quaternary material for infrared photodetection beyond 10µm
(Planned) journal: Applied Physics Letters, 90 (2007), 173510
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-12
• **ID:** 01177
Authors: T. Gebhard, P. Souza, F.F. Schrey, G. Strasser, K. Unterrainer, M. Pires, S. Landi, J.M. Villas-Boas, N. Studart
Authors - SANDiE partners: P24 (TU Wien)
Title: Polarization dependence of intraband transitions in QDIPs
(Planned) journal: Physica Status Solidi (c), 4 (2007), 2; S. 304 - 306
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-12
• **ID:** 01176
Authors: G. Fasching, F. Schrey, T. Roch, A.M. Andrews, W. Brezna, J. Smoliner, G. Strasser, K. Unterrainer
Authors - SANDiE partners: P24 (TU Wien)

Title: Single InAs/GaAs quantum dots: photocurrent and cross-sectional AFM analysis
(Planned) journal: Physica E, 32 (2006), S. 183 - 186
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-12
• ID: 01175
Authors: V. Mlinar and F. M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Optical properties of (In,Ga) As capped InAs quantum dots grown on [11k] substrates
(Planned) journal: APPLIED PHYSICS LETTERS 91, 021910, 2007
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-12
• ID: 01174
Authors: G. Talalaev, G. E. Cirlin , A. A. Tonkikh, N. D. Zakharov , P. Werner, U. Gösele, J. W. Tomm, T. Elsaesser
Authors - SANDiE partners: P05 (MPI Halle), P26 (Ioffe)
Title: Miniband-related 1.41.8 lm luminescence of Ge/Si quantum dot superlattices
(Planned) journal: Nanoscale Res Lett (2006) 1:137153
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-11
• ID: 01173
Authors: N.D.Zakharov, P. Werner, V.I.Vdovin, D.V.Denisov, R.N. Kyutt, N.A.Sobolev
Authors - SANDiE partners: P05 (MPI Halle), P26 (Ioffe)
Title: Crystal lattice defects in MBE grown Si layers highly doped with Er
(Planned) journal: Phys. Stat. Sol. A 205, No.2 pp.282-288 (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-11
• ID: 01172
Authors: C L Walker, I C Sandall, P M Smowton, D J Mowbray, H Y Liu, S L Liew, M Hopkinson
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Improved performance of 1.3- μ m In(Ga)As quantum-dot lasers by modifying the temperature profile of the GaAs spacer layers
(Planned) journal: IEEE PHOTONICS TECHNOLOGY LETTERS 18 (13-16): 1557-1559
(Planned) date of publication: 2006-08
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
• ID: 01171
Authors: I C Sandall, P M Smowton, J D Thomson, T Badcock, D J Mowbray, H Y Liu, M Hopkinson
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Temperature dependence of threshold current in p-doped quantum dot lasers
(Planned) journal: APPLIED PHYSICS LETTERS 89 (15): Art. No. 151118
(Planned) date of publication: 2006-10-09
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
• ID: 01170
Authors: C Y Jin, T J Badcock, H Y Liu, K M Groom, R J Royce, D J Mowbray, M Hopkinson
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Observation and modeling of a room-temperature negative characteristic temperature 1.3- μ m p-type modulation-doped quantum-dot laser
(Planned) journal: IEEE JOURNAL OF QUANTUM ELECTRONICS 42 (11-12): 1259-1265
(Planned) date of publication: 2006-12
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
• ID: 01169
Authors: I C Sandall, C L Walker, P M Smowton, D J Mowbray, H Y Liu, M Hopkinson
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Measurement of modal absorption, gain and recombination in p-doped and intrinsic quantum dot structures
(Planned) journal: IEE PROCEEDINGS-OPTOELECTRONICS 153 (6): 316-320
(Planned) date of publication: 2006-12
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
• ID: 01168
Authors: C Y Jin, H Y Liu, T J Badcock, K M Groom, M Gutierrez, R Royce, M Hopkinson, D J Mowbray
Authors - SANDiE partners: P08 (Uni Sheffield), P17 (Uni Cadiz)
Title: High-performance 1.3 μ m InAs/GaAs quantum-dot lasers with low threshold current and negative characteristic temperature
(Planned) journal: IEE PROCEEDINGS-OPTOELECTRONICS 153 (6): 280-283
(Planned) date of publication: 2006-12
Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2007-07-10
ID: 01167
Authors: J M Ulloa, I W D Drouzas, P M Koenraad, D J Mowbray, M J Steer, H Y Liu, M Hopkinson
Authors - SANDiE partners: P08 (Uni Sheffield), P07 (TU Eindhoven)
Title: Suppression of InAs/GaAs quantum dot decomposition by the incorporation of a GaAsSb capping layer
(Planned) journal: APPLIED PHYSICS LETTERS 90 (21): Art. No. 213105
(Planned) date of publication: 2007-05-21
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
ID: 01166
Authors: A D Bristow, D O Kundys, A Z Garcia-Deniz, J P R Wells, A M Fox, M S Skolnick, D M Whittaker
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Enhanced all-optical tuning of leaky eigenmodes in photonic crystal waveguides
(Planned) journal: OPTICS LETTERS 31 (15): 2284-2286
(Planned) date of publication: 2006-08-01
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
ID: 01165
Authors: H Y Liu, S L Liew, T J Badcock, D J Mowbray, M S Skolnick, S K Ray, T L Choi, K M Groom, B Stevens, F Hasbullah, C Y Jin, M Hopkinson, R A Hogg
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: p-doped 1.3 μ m InAs/GaAs quantum-dot laser with a low threshold current density and high differential efficiency
(Planned) journal: APPLIED PHYSICS LETTERS 89 (7): Art. No. 073113
(Planned) date of publication: 2006-08-14
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
ID: 01164
Authors: S M Olaizola, W H Fan, S A Hashemizadeh, J P R Wells, D J Mowbray, M S Skolnick, A M Fox, P J Parbrook
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Time-resolved photoluminescence studies of carrier diffusion in GaN
(Planned) journal: APPLIED PHYSICS LETTERS 89 (7): Art. No. 072107
(Planned) date of publication: 2006-08-14
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
ID: 01163
Authors: D N Krizhanovskii, D Sanvitto, A P D Love, M S Skolnick, D M Whittaker, J S Roberts
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Dominant effect of polariton-polariton interactions on the coherence of the microcavity optical parametric oscillator
(Planned) journal: PHYSICAL REVIEW LETTERS 97 (9): Art. No. 097402
(Planned) date of publication: 2006-09-01
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
ID: 01162
Authors: T J Badcock, H Y Liu, K M Groom, C Y Jin, M Gutierrez, M Hopkinson, D J Mowbray, M S Skolnick
Authors - SANDiE partners: P08 (Uni Sheffield), P17 (Uni Cadiz)
Title: 1.3 μ m InAs/GaAs quantum-dot laser with low-threshold current density and negative characteristic temperature above room temperature
(Planned) journal: ELECTRONICS LETTERS 42 (16): 922-923
(Planned) date of publication: 2006-08-03
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
ID: 01161
Authors: P G Savvidis, L G Connolly, M S Skolnick, D G Lidzey, J J Baumberg
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Ultrafast polariton dynamics in strongly coupled zinc porphyrin microcavities at room temperature
(Planned) journal: PHYSICAL REVIEW B 74 (11): Art. No. 113312
(Planned) date of publication: 2006-09
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
ID: 01160
Authors: C Zervos, M D Frogley, C C Phillips, D O Kundys, L R Wilson, J W Cockburn, M Hopkinson, M S Skolnick
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Coherent near-infrared wavelength conversion in semiconductor quantum cascade lasers
(Planned) journal: APPLIED PHYSICS LETTERS 89 (18): Art. No. 183507
(Planned) date of publication: 2006-10-30
Research paper in international journal? (y/n):
Status:
Submitted to Network Office: 2007-07-10

- **ID:** 01159
Authors: A Z Garcia-Deniz, P Murzyn, A M Fox, D O Kundys, J-P R Wells, D M Whittaker, M S Skolnick, T F Krauss, J S Roberts
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Ultrafast reflectivity modulation in Al_xGa_{1-x}As/In_yAl_xGa_{1-x-y}As multiple quantum well photonic crystal waveguides
(Planned) journal: PHYSICAL REVIEW B 74 (16): Art. No. 165327
(Planned) date of publication: 2006-10
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
- **ID:** 01158
Authors: B A Carpenter, E A Zibik, M L Sadowski, L R Wilson, D M Whittaker, J W Cockburn, M S Skolnick, M Potemski, M J Steer, M Hopkinson
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Intraband magnetospectroscopy of singly and doubly charged n-type self-assembled quantum dots
(Planned) journal: PHYSICAL REVIEW B 74 (16): Art. No. 161302
(Planned) date of publication: 2006-10
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
- **ID:** 01157
Authors: M S Skolnick, D Sanvitto, D N Krizhanovskii, A P D Love, D M Whittaker, J S Roberts
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Spatial properties and coherence of the high density phase in the microcavity optical parametric oscillator
(Planned) journal: PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS 243 (14): 3569-3569
(Planned) date of publication: 2006-11
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
- **ID:** 01156
Authors: J C Lin, P W Fry, R A Hogg, M Hopkinson, I M Ross, A G Cullis, R S Kolodka, A I Tartakovskii, M S Skolnick
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: The control of size and areal density of InAs self-assembled quantum dots in selective area molecular beam epitaxy on GaAs (001) surface
(Planned) journal: MICROELECTRONICS JOURNAL 37 (12): 1505-1510 Sp. Iss. SI
(Planned) date of publication: 2006-12
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
- **ID:** 01155
Authors: D O Kundys, P Murzyn, J P R Wells, A I Tartakovskii, M S Skolnick, L S Dang, E V Lutsenko, N P Tarasuk, O G Lyublinskaya, A A Toropov, S V Ivanov
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: The dynamics of amplified spontaneous emission in CdSe/ZnSe quantum dots
(Planned) journal: JOURNAL OF APPLIED PHYSICS 100 (12): Art. No. 123510
(Planned) date of publication: 2006-12-15
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
- **ID:** 01154
Authors: J Wenus, R Parashkov, S Ceccarelli, A Brehier, J S Lauret, M S Skolnick, E Deleporte, D G Lidzey
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Hybrid organic-inorganic exciton-polaritons in a strongly coupled microcavity
(Planned) journal: PHYSICAL REVIEW B 74 (23): Art. No. 235212
(Planned) date of publication: 2006-12
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
- **ID:** 01153
Authors: J C Lin, R Hogg, P Fry, M Hopkinson, I Ross, A Cullis, R Kolodka, A Tartakovskii, M Skolnick
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Effect of GaAs polycrystal on the size and areal density of InAs quantum dots in selective area molecular beam epitaxy
(Planned) journal: JOURNAL OF CRYSTAL GROWTH 297 (1): 38-43
(Planned) date of publication: 2006-12-15
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
- **ID:** 01152
Authors: I P Marko, A R Adams, S J Sweeney, N F Masse, R Krebs, J P Reithmaier, A Forchel, D J Mowbray, M S Skolnick, H Y Liu, K M Groom, N Hatori, M Sugawara
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Band gap dependence of the recombination processes in InAs/GaAs quantum dots studied using hydrostatic pressure
(Planned) journal: PHYSICA STATUS SOLIDI B-BASIC SOLID STATE PHYSICS 244 (1): 82-86
(Planned) date of publication: 2007-01
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10

- **ID:** 01151
Authors: A I Tartakovskii, T Wright, A Russell, V I Fal'ko, A B Van'kov, J Skiba-Szymanska, I Drouzas, R S Kolodka, M S Skolnick, P W Fry, A Tahraoui, H Y Liu, M Hopkinson
Authors - SANDiE partners: P08 (Uni Sheffield), P29 (Lancaster Uni)
Title: Nuclear spin switch in semiconductor quantum dots
(Planned) journal: PHYSICAL REVIEW LETTERS 98 (2): Art. No. 026806
(Planned) date of publication: 2007-01-12
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
- **ID:** 01150
Authors: C Zervos, M D Frogley, C C Phillips, D O Kundys, L R Wilson, M Hopkinson, M S Skolnick
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: All-optical switching in quantum cascade lasers
(Planned) journal: APPLIED PHYSICS LETTERS 90 (5): Art. No. 053505
(Planned) date of publication: 2007-01-29
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
- **ID:** 01149
Authors: J A Timpson, D Sanvitto, A Daraei, P S S Guimaraes, H Vinck, S Lam, D M Whittaker, M S Skolnick, A M Fox, C Y Hu, Y-L D Ho, R Gibson, J G Rarity, S Pellegrini, K J Gordon, R E Warburton, G S Buller, A Tahraoui, P W Fry, M Hopkinson
Authors - SANDiE partners: P08 (Uni Sheffield), P10 (HWU Edinburgh)
Title: Single photon sources based upon single quantum dots in semiconductor microcavity pillars
(Planned) journal: JOURNAL OF MODERN OPTICS 54 (2-3): 453-465
(Planned) date of publication: 2007-01-20
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
- **ID:** 01148
Authors: T J Badcock, R J Royce, D J Mowbray, M S Skolnick, H Y Liu, M Hopkinson, K M Groom, Q Jiang
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Low threshold current density and negative characteristic temperature 1.3 μm InAs self-assembled quantum dot lasers
(Planned) journal: APPLIED PHYSICS LETTERS 90 (11): Art. No. 111102
(Planned) date of publication: 2007-03-12
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
- **ID:** 01147
Authors: A J Ramsay, R S Kolodka, F Bello, P W Fry, W K Ng, A Tahraoui, H Y Liu, M Hopkinson, D M Whittaker, A M Fox, M S Skolnick
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Coherent response of a quantum dot exciton driven by a rectangular spectrum optical pulse
(Planned) journal: PHYSICAL REVIEW B 75 (11): Art. No. 113302
(Planned) date of publication: 2007-03
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
- **ID:** 01146
Authors: E A Zibik, W H Ng, L R Wilson, M S Skolnick, J W Cockburn, M Gutierrez, M J Steer, M Hopkinson
Authors - SANDiE partners: P08 (Uni Sheffield), P17 (Uni Cadiz)
Title: Effects of alloy intermixing on the lateral confinement potential in InAs/GaAs self-assembled quantum dots probed by intersublevel absorption spectroscopy
(Planned) journal: APPLIED PHYSICS LETTERS 90 (16): Art. No. 163107
(Planned) date of publication: 2007-04-16
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
- **ID:** 01145
Authors: D M Whittaker, P S S Guimaraes, D Sanvitto, H Vinck, S Lam, A Daraei, J A Timpson, A M Fox, M S Skolnick, Y-L D Ho, J G Rarity, M Hopkinson, A Tahraoui
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: High Q modes in elliptical microcavity pillars
(Planned) journal: APPLIED PHYSICS LETTERS 90 (16): Art. No. 161105
(Planned) date of publication: 2007-04-16
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10
- **ID:** 01144
Authors: D Ballarini, A Amo, L Vina, D Sanvitto, M Skolnick, J S Roberts
Authors - SANDiE partners: P08 (Uni Sheffield)
Title: Transition from the strong- to the weak-coupling regime in semiconductor microcavities: Polarization dependence
(Planned) journal: APPLIED PHYSICS LETTERS 90 (20): Art. No. 201905
(Planned) date of publication: 2007-05-14
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-10

- **ID:** 01143
Authors: P. Kratzer
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Thermodynamic and kinetic aspects of nanowire growth
(Planned) event: Workshop "Wiregrowth 2007", Lund University
(Planned) date of presentation: 2007-06-10
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-07-09
- **ID:** 01142
Authors: T. Hammerschmidt, P. Kratzer, and M. Scheffler
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Quantitative Evidence for Reduced Critical Nuclei in InAs/GaAs(001) QD Stacks
(Planned) event: Spring Meeting of the German Physical Society, Regensburg, Germany
(Planned) date of presentation: 2007-03-26
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-07-09
- **ID:** 01141
Authors: T. Hammerschmidt, P. Kratzer, and M. Scheffler
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Origin of the excitonic dipole moment in InAs/GaAs Quantum Dots: A Tight-Binding Study
(Planned) event: Spring Meeting of the German Physical Society, Regensburg, Germany
(Planned) date of presentation: 2007-03-26
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-07-09
- **ID:** 01140
Authors: T. Hammerschmidt, P. Kratzer, and M. Scheffler
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Elastic response of cubic crystals to biaxial strain: Analytic results and comparison to density functional theory for InAs
(Planned) journal: Phys. Rev. B 75, 235328 (2007)
(Planned) date of publication: 2007-06
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-09
- **ID:** 01139
Authors: P. Kratzer, S.J. Hashemifar, H. Wu, M. Hortamani and M. Scheffler
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Transition-metal silicides as materials for magnet-semiconductor heterostructures
(Planned) journal: J. Appl. Phys. 101, 081725 (2007)
(Planned) date of publication: 2007-04
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-09
- **ID:** 01138
Authors: Ana M. Beltran, T. Ben, A.M. Sanchez, Jorge M. Garcia, Y. Gonzalez, L. Gonzalez and Sergio I. Molina.
Authors - SANDiE partners: P17 (Univ. of Cadiz, SPAIN), P22 (CSIC Madrid)
Title: Structural Effects of depositing an intermediate layer of GaAs over InAs quantum dots covered by GaSb
(Planned) event: Workshop Long Wavelength quantum dots: growth and applications
(Planned) date of presentation:
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-07-09
- **ID:** 01137
Authors: C. Sartet, M. Tcherycheva, L. Travers, G. Patriarche, D. Bajoni, J. Bloch, J.C. Harmand
Authors - SANDiE partners: P11 (CNRS/LPN)
Title: On the possible contamination of GaAs nanowires by Au catalyst
(Planned) journal: Appl. Phys. Lett.
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2007-07-02
- **ID:** 01136
Authors: Tcherycheva, M.; Cirlin, G. E.; Patriarche, G.; Travers, L.; Zwiller, V.; Perinetti, U.; Harmand, J.-C.
Authors - SANDiE partners: P11 (CNRS/LPN), P26 (Ioffe Physico-Technical Institute)
Title: Growth and Characterization of InP Nanowires with InAsP Insertions
(Planned) journal: Nano Lett., (Letter), 7(6), 1500-1504
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-02
- **ID:** 01135
Authors: Harmand, J. C.; Tcherycheva, M.; Patriarche, G.; Travers, L.; Glas, F.; Cirlin, G.
Authors - SANDiE partners: P11 (CNRS/LPN), P26 (Ioffe Physico-Technical Institute)
Title: GaAs nanowires formed by Au-assisted molecular beam epitaxy: Effect of growth temperature
(Planned) journal: J. Cryst. Growth 301-302, 853 (2007)

(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-02
• **ID:** 01134
Authors: Dubrovskii, V. G.; Sibirev, N. V.; Suris, R. A.; Cirlin, G. E.; Ustinov, V. M.; Tchernycheva, M.; Harmand, J. C.
Authors - SANDiE partners: P26 (Ioffe Physico-Technical Institute), P11 (CNRS/LPN)
Title: The role of surface diffusion of adatoms in the formation of nanowire crystals
(Planned) journal: SEMICONDUCTORS 40, 1075
(Planned) date of publication: 2006-09
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-07-02
• **ID:** 01133
Authors: Ana M. Beltran, T. Ben, A.M. Sanchez, J.M. Ripalda and S.I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz), P22 (CSIC Madrid)
Title: Structural Characterization of GaSb/GaAs/InAs quantum dots
(Planned) journal: Proceedings of the Workshop on Advanced Sample Preparation Techniques for TEM. Workshop on Advanced Sample Preparation Techniques for TEM AGH University of Science and Technology Krakow, Poland 24-29.06.2007
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-07-02
• **ID:** 01132
Authors: P.Carrington, A. Krier, Q. Zhuang, R.Jones, M.Yin, A Hammiche & V.A.Solov'ev
Authors - SANDiE partners: P29 (Uni Lancaster), P26 (Ioffe)
Title: Quantum Dot Nanostructures for Mid-infrared Laser Applications
(Planned) event: SEMICONDUCTOR AND INTEGRATED OPTO-ELECTRONICS CONFERENCE,SIOE, 2-4 April 2007, Cardiff University
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-06-26
• **ID:** 01131
Authors: P.Carrington, A. Krier, Q. Zhuang, R.Jones, M.Yin, A Hammiche
Authors - SANDiE partners: P29 (Uni Lancaster)
Title: Quantum Dot Nanostructures for Mid-infrared Laser Applications
(Planned) event: One Day Quantum Dot Meeting, Friday 19th of January 2007, School of Physics and Astronomy, University of Nottingham
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: poster presented
Submitted to Network Office: 2007-06-26
• **ID:** 01130
Authors: V.A. Solov'ev, P. Carrington, Q. Zhuang, S.V. Ivanov, and A. Krier
Authors - SANDiE partners: P29 (Uni Lancaster), P26 (Ioffe)
Title: InSb/InAs nanostructures grown by molecular beam epitaxy using Sb₂ and As₂ fluxes
(Planned) event: NGS-13, Guildford UK, 8-12 July 2007
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2007-06-26
• **ID:** 01129
Authors: V.A. Solov'ev, A.N. Semenov, O.G. Lyublinskaya, B.Ya. Meltser, P. Carrington, Q. Zhuang, A. Krier, and S.V. Ivanov
Authors - SANDiE partners: P29 (Uni Lancaster), P26 (Ioffe)
Title: Antimony Surface Segregation in InSb/InAs(Sb)-based Quantum Dot Nanostructures
(Planned) event: MIO MD VIII: 14th - 16th May 2007, Bad Ischl, Austria
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-06-26
• **ID:** 01128
Authors: P. Carrington, V.A. Solov'ev, Q. Zhuang, K.T. Lai, S.K. Haywood, S.V. Ivanov and A. Krier
Authors - SANDiE partners: P29 (Uni Lancaster), P26 (Ioffe)
Title: Type II InSb/InAs quantum dot structures grown by molecular beam epitaxy using Sb₂ and As₂ fluxes
(Planned) event: International Workshop on Long Wavelength Quantum Dots : Growth and Applications - INSA, RENNES, 05-06 July 2007
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2007-06-26
• **ID:** 01127
Authors: T. Nuytten, M. Hayne, M. Henini, V.V. Moshchalkov
Authors - SANDiE partners: P02 (KU Leuven), P09 (Uni Nottingham), P29 ((Lancaster University)
Title: Temperature dependence of the high-field photoluminescence of self-assembled InAs/GaAs quantum dots
(Planned) journal: Phys Rev B
(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: accepted

Submitted to Network Office: 2007-06-22

• **ID:** 01126

Authors: M. Ahmad Kamarudin, M. Hayne, Q.D. Zhuang, T. Nuytten and V.V. Moshchalkov

Authors - SANDiE partners: P02 (KU Leuven), P29 ((Lancaster University)

Title: Properties of GaSb/GaAs Quantum Dots for Different Growth Conditions

(Planned) event: Compound Semiconductor UK, Sheffield, 4th to 5th July 2007

(Planned) date of presentation: 2007

Research paper in international journal? (y/n): n

Status: submitted

Submitted to Network Office: 2007-06-18

• **ID:** 01125

Authors: Bhavtosh Bansal, M. Hayne, M. Geller, D. Bimberg, and V. V. Moshchalkov

Authors - SANDiE partners: P02 (KU Leuven), P04 (TU Berlin), P29 ((Lancaster University)

Title: Excitonic Mott transition in type-II quantum dots

(Planned) journal: PRB

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: accepted

Submitted to Network Office: 2007-06-18

• **ID:** 01124

Authors: N. A. J. M. Kleemans, J. H. Blokland, A. G. Taboada, I. M. A. Bominaar-Silkens, H. C. M. Genuchten, V. M. Fomin, V. N.

Gladilin, D. Granados, J. M. García, U. Zeitler, P. C. M. Christianen, J. C. Maan, J. T. Devreese, P. M. Koenraad

Authors - SANDiE partners: P03 (Uni Antwerpen), P07 (TU Eindhoven), P22 (CSIC Madrid)

Title: The impact of the Aharonov-Bohm effect on the electronic and excitonic properties of ring-shaped nanostructures

(Planned) event: 17th International Conference on Electronic Properties of Two-Dimensional Systems (EP2DS17), Genova, Italy, July 15 - 20, 2007

(Planned) date of presentation: 2007-07-16

Research paper in international journal? (y/n): n

Status: accepted for session Tue-E1 (oral)

Submitted to Network Office: 2007-06-17

• **ID:** 01123

Authors: V. M. Fomin, V. N. Gladilin, J. T. Devreese, N. A. J. M. Kleemans, H. C. M. Genuchten, P. M. Koenraad

Authors - SANDiE partners: P03 (Uni Antwerpen), P07 (TU Eindhoven)

Title: Self-Assembled InGaAs/GaAs Ring-Like Nanostructures: Effects of the Coulomb Interaction

(Planned) event: 17th International Conference on Electronic Properties of Two-Dimensional Systems (EP2DS17), Genova, Italy, July 15 - 20, 2007

(Planned) date of presentation: 2007-07-16

Research paper in international journal? (y/n): n

Status: accepted WE-PE48 (poster)

Submitted to Network Office: 2007-06-17

• **ID:** 01122

Authors: J. T. Devreese

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Polarons and Bipolarons in Nanostructures. Part I. Fröhlich Polarons. Concepts and Recent Developments

(Planned) journal: Handbook of Semiconductor Nanostructures and Nanodevices, Edited by A.A. Balandin and K.L. Wang, American Scientific Publishers, Los Angeles (2006), Vol. 4, pp. 311-337.

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-06-17

• **ID:** 01121

Authors: J. T. Devreese, V. M. Fomin, E. P. Pokatilov

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Polarons and Bipolarons in Nanostructures. Part II. Polaron Effects in Nanostructures

(Planned) journal: Handbook of Semiconductor Nanostructures and Nanodevices, Edited by A.A. Balandin and K.L. Wang, American Scientific Publishers, Los Angeles (2006), Vol. 4, pp. 339-407

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-06-17

• **ID:** 01120

Authors: L. Nasi, C. Bocchi, F. Germini, M. Prezioso, E. Gombia, R. Mosca, P. Frigeri, G. Trevisi, L. Seravalli, and S. Franchi

Authors - SANDiE partners: P14 (CNR-IMEM)

Title: Defects in nanostructures with ripened InAs/GaAs quantum dots

(Planned) event: 12th International Conference on Defects-Recognition, Imaging and Physics in Semiconductors, 9 - 13 September 2007, Berlin (Germany)

(Planned) date of presentation: 2007-09-09 to 2007-09-13

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-06-15

• **ID:** 01119

Authors: L. Nasi, C. Bocchi, A. Catellani, F. Germini, J. K. Morrod, K. A. Prior, G. Calestani

Authors - SANDiE partners: P14 (CNR-IMEM), P10 (Edinburgh)

Title: Defect-induced phase transition from zinc-blende to rocksalt in MBE grown MgS

(Planned) event: 12th International Conference on Defects-Recognition, Imaging and Physics in Semiconductors, 9 - 13 September 2007,

Berlin (Germany)

(Planned) date of presentation: 2007-09-09 to 2007-09-13

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-06-15

• **ID:** 01118

Authors: E. Peter, J. Bloch, D. Martrou, A. Lemaître, J. Hours, G. Patriarche, A. Cavanna, J.M. Gérard, S. Laurent, I. Robert-Philip and P. Senellart

Authors - SANDiE partners: P11 (LPN/CNRS)

Title: Strong coupling regime with a single GaAs QD in a microdisk microcavity

(Planned) event: Third international workshop on quantum optics in semiconductor nanostructures. Wursburg-Rothenburg. 5-6 /10/ 2006

(Planned) date of presentation: 2006-10-06

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-06-14

• **ID:** 01117

Authors: E. Peter, J. Bloch, D. Martrou, A. Lemaître, J. Hours, G. Patriarche, A. Cavanna, J.M. Gérard, S. Laurent, I. Robert-Philip and P. Senellart

Authors - SANDiE partners: P11 (LPN/CNRS)

Title: Strong coupling regime for a single quantum dot in an optical microcavity

(Planned) event: ICPS, Vienne, Autriche 23-28 July 2006

(Planned) date of presentation: 2006-07-23 to 2006-07-28

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-06-14

• **ID:** 01116

Authors: E. Peter, S. Laurent, J. Bloch, J. Hours, S. Varoutsis, I. Robert-Philip, A. Beveratos, A. Lemaître, A. Cavanna, G. Patriarche, and P. Senellart

Authors - SANDiE partners: P11 (LPN/CNRS)

Title: Fast radiative quantum dots: From single to multiple photon emission

(Planned) journal: Applied Physics Letter Volume 90 Pages: 223118

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-06-14

• **ID:** 01115

Authors: E. Peter, J. Bloch, D. Martrou, A. Lemaître, J. Hours, G. Patriarche, A. Cavanna, J.M. Gérard, S. Laurent, I. Robert-Philip and P. Senellart

Authors - SANDiE partners: P11 (LPN/CNRS)

Title: Cavity QED with a single QD inside an optical microcavity

(Planned) journal: physica status solidi (b) Volume 243, Issue 11, Date: December 2006, Pages: 3879

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-06-14

• **ID:** 01114

Authors: J. A. Gaj, J. Cibert, D. Ferrand, A. Golnik, M. Goryca, G. Karczewski, P. Kossacki, J. Kossut, K. Kowalik, O. Krebs, A. Kudelski, M. Kutrowski, A. Lemaître, W. Małana, M. Nawrocki, W. Pacuski, P. Plochocka, P. Senellart, S. Tatarenko, P. Voisin, T. Wojtowicz

Authors - SANDiE partners: P11 (LPN/CNRS), A01 (Institute of Physics, PAS, Warsaw)

Title: Optical probing of spin-dependent interactions in II-VI semiconductor structures

(Planned) journal: physica status solidi (b) Volume 243, Issue 11, Date: December 2006, Pages: 906-913

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-06-14

• **ID:** 01113

Authors: M. Gurioli, M. Zamfirescu, A. Vinattieri, S. Sanguinetti, E. Grilli, M. Guzzi, S. Mazzucato, A. Polimeni, M. Capizzi, L. Seravalli, P. Frigeri and S. Franchi

Authors - SANDiE partners: P14 (CNR-IMEM)

Title: Characterization of hydrogen passivated defects in strain-engineered semiconductor quantum dot structures

(Planned) journal: Journal of Applied Physics 100, 084313 (2006)

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-06-14

• **ID:** 01112

Authors: L. Nasi, C. Bocchi, A. Catellani, F. Germini, J. K. Morrod, K. A. Prior and G. Calestani

Authors - SANDiE partners: P14 (CNR-IMEM), P10 (HWU Edinburgh)

Title: Study of structural transition from metastable zinc-blende to rock-salt crystal in MBE MgS/ZnSe/GaAs multilayer system

(Planned) journal: Appl Phys Lett. 91, 111908 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-06-14

• **ID:** 01111

Authors: L. Seravalli, P. Frigeri, G. Trevisi and S. Franchi

Authors - SANDiE partners: P14 (CNR-IMEM)

Title: InAs/InGaAs metamorphic quantum dot structures on GaAs with 1.59 μm emission at RT
(Planned) event: International Workshop on Long Wavelength Quantum Dots: Growth and Applications (LWQD'07), Rennes (France) 05-06 July 2007
(Planned) date of presentation: 2007-07-05 to 2007-07-06
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-06-14

- **ID:** 01110

Authors: J. Gomis, S. Dommers, V.V. Temnov, U.Woggon, J.Martinez-Pastor, M. Laemmlin, D. Bimberg
Authors - SANDiE partners: P20 (Uni Dortmund), P16 (Universitat de Valencia), P04 (TU Berlin)
Title: Ultrafast gain recovery in quantum dot based semiconductor optical amplifiers
(Planned) event: CLEO/IQEC Europe, 17.-22.6.2007
(Planned) date of presentation: 2007-06-22
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-06-13

- **ID:** 01109

Authors: A.A. Lagatsky, V.E. Kisel, A.E. Troshin, N.A. Tolstik, N.I. Leonyuk, A.E. Zhukov, E.U. Rafailov, N.V. Kuleshov, and W. Sibbett
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg)
Title: Diode-pumped passively mode-locked Er,Yb:YAl₃(BO₃)₄ laser at 1.5 - 1.6 μm
(Planned) event: CLEO-Europe, Munich, 2007
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-06-13

- **ID:** 01108

Authors: N.N. Ledentsov, V.A. Shchukin, T. Kettler, K. Posilovic, D. Bimberg, L.Ya. Karachinsky, A.Yu. Gladyshev, M.V. Maximov, I.I. Novikov, Yu.M. Shernyakov, A.E. Zhukov, V.M. Ustinov and A.R. Kovsh
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin), P28 (INNOLUME)
Title: MBE-grown metamorphic lasers for applications at telecom wavelengths
(Planned) journal: J. Cryst. Growth 301-302, pp. 914-922 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-13

- **ID:** 01107

Authors: I.I. N.Yu.Gordeev, W.K.Tan, A.C.Bryce, I.I.Novikov, N.V.Kryzhanovskaya, S.M.Kuznetsov, A.G.Gladyshev, M.V.Maximov, S.S.Mikhrin, and J.H. Marsh
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg)
Title: Broad-area InAs/GaAs quantum dot lasers incorporating intermixed passive waveguide
(Planned) journal: Electronics Letters, 43(1), 29-30 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-13

- **ID:** 01106

Authors: S.A.Blokhin, A.V.Sakharov, N.A.Maleev, M.M.Kulagina, Y.M.Shernyakov, I.I.Novikov, N.Yu.Gordeev, M.V.Maximov, A.G.Kuzmenkov, V.M.Ustinov, N.N.Ledentsov, A.R.Kovsh, S.S.Mikhrin, G.Lin, J.Y.Chi
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg)
Title: Impact of thermal effects on performance of vertical-cavity surface-emitting lasers based on sub-monolayer InGaAs quantum dots
(Planned) journal: Semicond. Sci. Technol., 22, 203 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-13

- **ID:** 01105

Authors: T. Angelova, A. Cros, A. Cantarero, Ch. Deneke
Authors - SANDiE partners: P16 (Uni Valencia), P23 (MPI Stuttgart)
Title: Raman study of III-V semiconductor origami tubes
(Planned) event: Summer School on Women-in-nano: Career Development and Research Trends
(Planned) date of presentation: 1-6 June 2007 (Tarragona, Spain)
Research paper in international journal? (y/n): n
Status: poster presented
Submitted to Network Office: 2007-06-13

- **ID:** 01104

Authors: J. BOSCH, B. ALÉN, J. MARTÍNEZ-PASTOR, D. GRANADOS, J.M. GARCÍA, and L. GONZÁLEZ
Authors - SANDiE partners: P16 (Uni Valencia), P22 (CSIC Madrid)
Title: Competition between carrier recombination and tunneling in quantum dots and rings under the action of electric fields
(Planned) event: 7th Int. Conf. on Physics of Light Matter Coupling in Nanostructures (La Havana, Cuba)
(Planned) date of presentation: 2007-04-12 / 2007-04-17
Research paper in international journal? (y/n): n
Status: poster presented
Submitted to Network Office: 2007-06-13

- **ID:** 01103

Authors: G. MUÑOZ-MATUTANO, B. ALÉN, J. MARTÍNEZ-PASTOR, L. SERAVALLI, P. FRIGERI and S. FRANCHI
Authors - SANDiE partners: P16 (Uni Valencia), P14 (CNR-IMEM), P22 (CSIC Madrid)
Title: Charge switching of quantum states inside quantum dots

(Planned) event: 7th Int. Conf. on Physics of Light Matter Coupling in Nanostructures (La Havana, Cuba)
(Planned) date of presentation: 2007-04-12 / 2007-04-17
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-06-13

- **ID:** 01102
Authors: A. Cros, J. A. Budagosky, N. Garro, A. Cantarero, J. Coraux, V. Favre-Nicolin, H. Renevier, M. G. Proietti, and B. Daudin
Authors - SANDiE partners: P16 (Uni Valencia)
Title: GaN/AlN quantum dots with variable capping: evaluation of strain by means of resonant Raman scattering
(Planned) event: International Workshop on Nitride Semiconductors
(Planned) date of presentation: 22-27 October 2006 (Kyoto, Japan)
Research paper in international journal? (y/n): n
Status: poster presented
Submitted to Network Office: 2007-06-13
- **ID:** 01101
Authors: J. Fresneda, A. Cros, J. M. Llorens, A. García-Cristóbal, A. Cantarero, B. Amstatt, E. Ballet-Amalric, and B. Daudin
Authors - SANDiE partners: P16 (Uni Valencia)
Title: Correlation of strain, optical and vibrational properties in GaN/AlN quantum dot stacks with variable spacer thickness
(Planned) event: International Workshop on Nitride Semiconductors
(Planned) date of presentation: 22-27 October 2006 (Kyoto, Japan)
Research paper in international journal? (y/n): n
Status: poster presented
Submitted to Network Office: 2007-06-13
- **ID:** 01100
Authors: J. BOSCH, B. ALÉN, J. MARTÍNEZ-PASTOR, D. GRANADOS, J.M. GARCÍA, and L. GONZÁLEZ
Authors - SANDiE partners: P16 (Uni Valencia), P22 (CSIC Madrid)
Title: Competition between carrier recombination and tunneling in quantum dots and rings under the action of electric fields
(Planned) journal: Superlattices & Microstructures
(Planned) date of publication: 2007-12
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-06-13
- **ID:** 01099
Authors: G. MUÑOZ-MATUTANO, B. ALÉN, J. MARTÍNEZ-PASTOR, L. SERAVALLI, P. FRIGERI and S. FRANCHI
Authors - SANDiE partners: P16 (Uni Valencia), P14 (CNR-IMEM)
Title: Charge switching of quantum states inside quantum dots
(Planned) journal: Superlattices & Microstructures
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-06-13
- **ID:** 01098
Authors: T. Bando, A. Cantarero, and A. García-Cristóbal
Authors - SANDiE partners: P16 (Uni Valencia)
Title: Finite Size Effects on the Optical Transitions in Quantum Rings under a Magnetic Field
(Planned) journal: Eur. Phys. J. B 53, 99-108 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-13
- **ID:** 01097
Authors: A. Devos, F. Poinssotte, J. Groenen, O. Dehaese, N. Bertru, A. Ponchet
Authors - SANDiE partners: P12 (INSA-LENS)
Title: Strong generation of coherent acoustic phonons in semiconductor quantum dots
(Planned) journal: Phys Rev. Lett. 98, 207402 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-12
- **ID:** 01096
Authors: J. Even, C. Cornet and F. Doré
Authors - SANDiE partners: P12 (INSA-LENS)
Title: Anisotropic and inhomogeneous Coulomb screening in the Thomas-Fermi approximation: application to quantum dot – wetting layer system and Auger relaxation
(Planned) journal: Phys. Stat. sol. (b), 1-10 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-12
- **ID:** 01095
Authors: K. Veselinov, F. Grillot, A. Bekiarski and S. Loualiche
Authors - SANDiE partners: P12 (INSA-LENS)
Title: Modelling of the two-state lasing and the turn-on delay in 1.55 μm InAs/InP(113)B quantum dot lasers
(Planned) journal: IEE Proceedings of Optoelectronics, 153 308 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): n

Status: published
Submitted to Network Office: 2007-06-12
• **ID:** 01094
Authors: C. Cornet, C. Labbe, H. Folliot, J. Even, P. Caroff, C. Levallois, O. Dehaese, N. Bertru, A. Le Corre and S. Loualiche
Authors - SANDiE partners: P12 (INSA-LENS)
Title: Time-resolved pump-probe in 1.55mm InAs/InP quantum dots under high resonant excitation
(Planned) journal: Appl. Phys. Lett. 88, 171502 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-12
• **ID:** 01093
Authors: C. Labbé, C. Cornet, H. Folliot, P. Caroff, C. Levallois, O. Dehaese, J. Even, A. Le Corre, and S. Loualiche
Authors - SANDiE partners: P12 (INSA-LENS)
Title: carrier relaxation dynamics 1.55 μm InAs/InP quantum dots under high resonant excitation
(Planned) journal: AIP conf. Proceedings 893, 991 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-06-12
• **ID:** 01092
Authors: J.M. Ulloa, C. Celebi, P.M. Koenraad, A. Simon, E. Gapihan, A. Letoublon, N. Bertru, I. Drouzas, D.J. Mowbray, M.J. Steer and M. Hopkinson
Authors - SANDiE partners: P12 (INSA-LENS), P07 (TU Eindhoven), P08 (Uni Sheffield)
Title: Atomic scale study of impact of the strain and composition of the capping layer on the formation of InAs quantum dots
(Planned) journal: J. Appl. Phys. 101 081707 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-12
• **ID:** 01091
Authors: C. Cornet, M. Hayne, C. Levallois, P. Caroff, E. Homeyer, J. Even, C. Paranthoen, H. Folliot, C. Labbé and S. Loualiche,
Authors - SANDiE partners: P12 (INSA-LENS), P02(KU Leuven)
Title: Réalisation d'un laser à faible courant de seuil avec des boites quantiques InAs/InP organisées et couplées latéralement
(Planned) journal: J. Phys. IV France 135 141 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-12
• **ID:** 01090
Authors: F. Dore, A. Ballestar, C. Cornet, N. Bertru, I. Alghoraibi, R. Piron, J. Even and S. Loualiche
Authors - SANDiE partners: P12 (INSA-LENS), P22 (CSIC Madrid)
Title: Structure à îlots quantiques sur substrat InP pour l'émission dans le moyen infrarouge (2-5 μm)
(Planned) journal: J. Phys. IV France 135 283 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-12
• **ID:** 01089
Authors: F. Doré, C. Cornet, P. Caroff, I. Alghoraibi, A. Ballestar, C. Labbé, R. Piron, O. Dehaese, J. Even and S. Loualiche
Authors - SANDiE partners: P12 (INSA-LENS), P22 (CSIC Madrid)
Title: InAs(Sb)/InP (100) quantum dots for mid-infrared emitters : observation of 2.35 μm photoluminescence
(Planned) journal: phys. stat. sol. (c) 3, 3920 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-12
• **ID:** 01088
Authors: C. Cornet, M. Hayne, A. Schliwa, F. Doré, C. Labbé, H. Folliot, J. Even, D. Bimberg, V. V. Moshchalkov and S. Loualiche
Authors - SANDiE partners: P12 (INSA-LENS), P02 (KU Leuven), P04 (TU Berlin), P29 (Uni Lancaster)
Title: Theory and experiment of InAs/InP quantum dots : from calculations to laser emission
(Planned) journal: AIP conf. Proceedings 893, 779 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-06-12
• **ID:** 01087
Authors: F. Doré, J. Even, C. Cornet, A. Schliwa, N. Bertru, O. Dehaese, I. Alghoraibi, H. Folliot, R. Piron, A. Le Corre and S. Loualiche
Authors - SANDiE partners: P12 (INSA-LENS), P04 (TU Berlin)
Title: A theoretical and experimental study of $\lambda > 2\mu\text{m}$ luminescence of quantum dots on InP substrate
(Planned) journal: AIP conf. Proceedings 893, 889 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-06-12
• **ID:** 01086
Authors: G. Moreau, K. Merghem, A. Martinez, S. Bouchoule, A. Ramdane, F. Grillot, R. Piron, O. Dehaese, E. Homeyer, K. Tavernier, S.

Loualiche, P. Berdager, F. Pommerau

Authors - SANDiE partners: P12 (INSA-LENS), P11 (LPN/CNRS)

Title: 1516 nm room temperature CW operation of quantum dot InAs/InP(311)B single mode laser

(Planned) journal: Electronics Letters 43, 571 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-06-12

• **ID:** 01085

Authors: D. Alonso-Álvarez, Alfonso González-Taboada, Benito Alén, José M. Ripalda, Daniel Granados and Jorge M. García

Authors - SANDiE partners: P22 (CSIC Madrid)

Title: Photodetection applications of InAsSb/GaAs self-assembled quantum dots

(Planned) event: 6ª Conferencia de dispositivos Electrónicos 2007 (CDE07). El Escorial, España (2007)

(Planned) date of presentation: 2007

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-06-12

• **ID:** 01084

Authors: J. M. Ripalda, D. Alonso-Álvarez, B. Alén, A. G. Taboada, J. M. García, Y. González, L. González

Authors - SANDiE partners: P22 (CSIC Madrid)

Title: InGaAsSb self assembled quantum dots on GaAs(001)

(Planned) event: EuroMBE 2007 Granada

(Planned) date of presentation: 2007

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-06-12

• **ID:** 01083

Authors: G. Martínez-Criado, B. Alén, A. Homs, D. Fuster, J. M. Ripalda, A. Labrador, R. Steinmann, J. Susini, L. González, Y. González and J. M. García

Authors - SANDiE partners: P22 (CSIC Madrid)

Title: X-ray excited optical luminescence in InAs-based nanostructures: preliminary results

(Planned) event: Trends in Nanotechnology 2006 (TNT2006), Grenoble, France (2006)

(Planned) date of presentation: 2006

Research paper in international journal? (y/n): n

Status: poster presented

Submitted to Network Office: 2007-06-12

• **ID:** 01082

Authors: J. M. Ripalda, D. Alonso-Álvarez, B. Alén, A. G. Taboada, J. M. García, Y. González, L. González

Authors - SANDiE partners: P22 (CSIC Madrid)

Title: Enhancement of the room temperature luminescence of InAs quantum dots by GaSb capping

(Planned) journal: Appl. Phys. Lett. L07-02648 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: accepted

Submitted to Network Office: 2007-06-12

• **ID:** 01081

Authors: L. J. Martínez, A. R. Alija, P. A. Postigo, C. Seassal and P. Viktorovitch

Authors - SANDiE partners: P22 (CSIC Madrid)

Title: Modal suppression and single-mode emission in photonic crystal coupled cavity ring-like lasers

(Planned) journal: Aceptado para su publicación, Proceedings of the Conference on Electronic Devices 2007, published by IEEE

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: accepted

Submitted to Network Office: 2007-06-12

• **ID:** 01080

Authors: A. R. Alija, L. J. Martínez, J. Sánchez-Dehesa, P. A. Postigo, M. Galli, A. Politi, M. Patrini, L. C. Andreani, C. Seassal, and P. Viktorovitch

Authors - SANDiE partners: P22 (CSIC Madrid), P16 (Uni Valencia)

Title: Theoretical and experimental study of the Suzuki-phase photonic crystal lattice by angle-resolved photoluminescence spectroscopy

(Planned) journal: Optics Express

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: accepted

Submitted to Network Office: 2007-06-12

• **ID:** 01079

Authors: P. Boucaud, M. El Kurdi, S. David, X. Checoury, X. Li, T.-P. Ngo, S. Sauvage, D. Bouchier, G. Fishman, O. Kermarrec, Y. Campidelli, D. Bensahel, T. Akatsu, C. Richtarch, B. Ghyselen

Authors - SANDiE partners: P13 (Uni Paris)

Title: Germanium-based nanophotonic devices : two-dimensional photonic crystals and cavities

(Planned) event: International Conference on Silicon heterostructures, ICSI-5, Marseille 21-25 May 2007

(Planned) date of presentation: 2007

Research paper in international journal? (y/n): n

Status: invited talk, submitted to thin solid films

Submitted to Network Office: 2007-06-11

• **ID:** 01078

Authors: P. Boucaud, M. El Kurdi, X. Li, X. Checoury, S. David, S. Sauvage, G. Fishman, N. Yam, F. Fossard, D. Bouchier, J-M. Fédéli, O. Kermarrec, Y. Campidelli, D. Bensahel, B. Ghyselen

Authors - SANDiE partners: P13 (Uni Paris)
Title: Silicon and Ge-based photonic crystals
(Planned) event: Piers 2007, Electromagnetics in photonic crystals, Beijing 26-30 March 2007
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: invited talk
Submitted to Network Office: 2007-06-11
• **ID:** 01077
Authors: D. L. Sales, T. Ben, J. Pizarro, P. Galindo, M. Varela, S. J. Pennycook, B. Alén, D. Fuster, Y. González, L. González, S. I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: High Resolution Z-contrast characterisation of InAs/InP quantum wires on their initial growth stages
(Planned) event: Microscopy of Semiconducting Materials, 2-5 April 2007, Cambridge, UK
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-06-12
• **ID:** 01076
Authors: Ana M. Beltrán, Teresa Ben, Ana M. Sánchez, J. M. Ripalda, Jorge M. García, Yolanda Gonzalez, Luisa Gonzalez, Sergio I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz), P22 ((CSIC Madrid)
Title: Control of the intermixing process of GaSb with InAs quantum dots by inserting a GaAs spacer layer
(Planned) event: Microscopy of Semiconducting Materials, 2-5 April 2007, Cambridge, UK
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-06-12
• **ID:** 01075
Authors: A.M. Sánchez, J.G. Lozano, R. García, M. Herrera, S. Ruffenach and O. Briot and D. Gonzalez
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Strain mapping at atomic scale in highly mismatched heterointerfaces
(Planned) journal: Adv. Funct. Mater., in press (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: in press
Submitted to Network Office: 2007-06-12
• **ID:** 01074
Authors: M. Gutiérrez, M. Herrera, D. González, R. García and M. Hopkinson
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Role of elastic anisotropy in the vertical alignment of In(Ga)As quantum dot superlattices
(Planned) journal: Appl. Phys. Lett. 88, 193118 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-12
• **ID:** 01073
Authors: A. M. Sánchez, P L Galindo, S Kret, M Falke, R Beanland, P J Goodhew
Authors - SANDiE partners: P17 (Uni Cadiz), P19 (Bookham)
Title: Quantitative Strain Mapping Applied to Aberration-Corrected HAADF Images
(Planned) journal: Microscopy and Microanalysis 12, 285-294 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-12
• **ID:** 01072
Authors: A M Sánchez, P L Galindo, S Kret, M Falke, R Beanland, P J Goodhew
Authors - SANDiE partners: P17 (Uni Cadiz), P19 (Bookham)
Title: An approach to the systematic distortion correction in aberration-corrected HAADF images
(Planned) journal: Journal of Microscopy 221 (1), 1-7 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-12
• **ID:** 01071
Authors: C. Mocuta, J. Stangl, B. Krause, I. Vartanyants, T. Metzner, G. Bauer
Authors - SANDiE partners: P18 (Uni Linz)
Title: X-ray micro-diffraction on single Ge islands on Si (001)
(Planned) journal: ESRF Annual Report
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: in print
Submitted to Network Office: 2007-06-08
• **ID:** 01070
Authors: Th. Martensson, J. B. Wagner, E. Hilner, A. Mikkelsen, C. Thelander, J. Stangl, B. J. Ohlsson, A. Gustafsson, E. Lundgren, L. Samuelson, W. Seifert
Authors - SANDiE partners: P18 (Uni Linz), P06 (Uni Lund)
Title: Epitaxial growth of Indium Arsenide nanowires on Silicon using nucleation templates formed by self-assembled organic coatings
(Planned) journal: Advanced Materials 19, 1801-1806 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-06-08

• **ID:** 01069

Authors: G. Springholz, V. Holy

Authors - SANDiE partners: P18 (Uni Linz), A02 (Uni Prag)

Title: Stacking and ordering in Self-Organized Quantum Dot Multilayer Structures

(Planned) journal: In: "Lateral alignment of epitaxial quantum dots", Springer Series on Nanoscience and -technology", ed. O. G. Schmidt, series editors: P. Avouris, K. v. Klitzing, H. Sakaki, R. Wiesendanger, Springer, Berlin 2008, in print

(Planned) date of publication: 2008

Research paper in international journal? (y/n): y

Status: in print

Submitted to Network Office: 2007-06-08

• **ID:** 01068

Authors: Zhenyang Zhong, G. Bauer, O.G. Schmidt

Authors - SANDiE partners: P18 (Uni Linz)

Title: One-, two-, and three-dimensionally ordered GeSi islands grown on prepatterned Si (001) substrates

(Planned) journal: In: "Lateral Alignment of epitaxial quantum dots", Springer Series on Nanoscience and -technology", ed. O. G. Schmidt, series editors: P. Avouris, K. v. Klitzing, H. Sakaki, R. Wiesendanger, Springer, Berlin 2008, in print

(Planned) date of publication: 2008

Research paper in international journal? (y/n): y

Status: in print

Submitted to Network Office: 2007-06-08

• **ID:** 01067

Authors: Z. Zhong, W. Schwinger, F. Schäffler, G. Bauer, G. Vastola, F. Montalenti, L. Miglio

Authors - SANDiE partners: P18 (Uni Linz)

Title: Delayed plastic relaxation on patterned Si substrates: Coherent SiGe pyramids with dominant {111} facets

(Planned) journal: Phys. Rev. Lett. 98, 176102-1/4 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-06-08

• **ID:** 01066

Authors: A. Rehman Khan, J. Stangl, G. Bauer, D. Buca, B. Holländer, H. Trinkaus, S. Mantl, R. Loo, M. Caymax

Authors - SANDiE partners: P18 (Uni Linz)

Title: Study of relaxation of strain in patterned Si/SiGe structures using an x-ray diffraction technique

(Planned) journal: Semicond. Sci. Technol. 22, S212-S215 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-06-08

• **ID:** 01065

Authors: G. Grabecki, J. Wróbel, P. Zagrajek, K. Fronc, M. Aleszkiewicz, T. Dietl, E. Papis, E. Kaminska, A. Piotrowska, G. Springholz, G. Bauer

Authors - SANDiE partners: P18 (Uni Linz)

Title: Quantum nanostructures of paraelectric PbTe

(Planned) journal: Physica E 35, 332-337 (2006)

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-06-08

• **ID:** 01064

Authors: R. Leitsmann, L. E. Ramos, F. Bechstedt, H. Groiss, F. Schäffler, W. Heiss, Kazuto Koike, Hisashi Harada, Mitsuaki Yano

Authors - SANDiE partners: P18 (Uni Linz)

Title: Rebonding at coherent interfaces between rocksalt-PbTe/ zink-blende-CdTe

(Planned) journal: New Journal of Physics 8, 317/1-9 (2006)

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-06-08

• **ID:** 01063

Authors: G. Grabecki, J. Wróbel, T. Dietl, E. Janik, M. Aleszkiewicz, E. Papis, E. Kaminska, A. Piotrowska, G. Springholz, G. Bauer

Authors - SANDiE partners: P18 (Uni Linz)

Title: PbTe - A new medium for quantum ballistic devices

(Planned) journal: Physica E 34, 560-563 (2006)

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-06-08

• **ID:** 01062

Authors: R. T. Lechner, G. Springholz, T. U. Schüllli, J. Stangl, T. Schwarzl, D. Lott, V. Leiner, A. Schreyer, H. Clemens, G. Bauer

Authors - SANDiE partners: P18 (Uni Linz)

Title: Spin configurations in strained magnetic EuSe/PbSe_{1-x}Te_xsuperlattices grown by molecular beam epitaxy

(Planned) journal: Physica E 32, 379-382 (2006)

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2007-06-08
• **ID:** 01061
Authors: T. G. Yugova, M. G. Mil'vidski, M. M. Rzaev, F. Schäffler
Authors - SANDiE partners: P18 (Uni Linz)
Title: Thermally stimulated relaxation of misfit stains in Si-xGex/Si(100) heterostructures with different buffer layers
(Planned) journal: Surface and Thin Films 50, 1099-1106 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-08
• **ID:** 01060
Authors: M. M. Rzaev, I. P. Kazakov, V. I. Kozlovski, Y. K. Skasyrsky, E. E. Onishchenko, F. Schäffler, G. Hesser, E. M. Pashaev, I. A. Soubbotin
Authors - SANDiE partners: P18 (Uni Linz)
Title: Growth, structural and optical studies of CdSe/ZnSe nanostructures grown by MBE on GaAs and Si substrates
(Planned) journal: phys. stat. sol. (c) 3, 536-539 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-08
• **ID:** 01059
Authors: P. Bajracharya, T.A. Nguyen, S. Mackowski, L.M. Smith, and H.P. Wagner, U.W. Pohl and D. Bimberg, M. Strassburg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Relaxation dynamics of bimodally distributed CdSe quantum dots
(Planned) journal: Physical Review B 75, pp. 035321-1 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-06
• **ID:** 01058
Authors: N.N. Ledentsov
Authors - SANDiE partners: P04 (TU Berlin)
Title: Merging nanoepitaxy and nanophotonics
(Planned) journal: Future Trends in Microelectronics (special issue) (Eds. S. Luryi, J. Xu, A. Zaslavsky) p. 401-431 (2007)
(Planned) date of publication: 2007-10-01
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-06
• **ID:** 01057
Authors: N.N. Ledentsov, F. Hopfer, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: High speed quantum dot vertical cavity surface emitting lasers
(Planned) journal: Special Issue in Proceedings of The IEEE on Optoelectronic Devices Based on Quantum Dots 95 (9) p. 1741-1756, 2007
(Planned) date of publication: 2007-09-09
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-06
• **ID:** 01056
Authors: A. Ankiewicz, M.C. Carmo, and N.A. Sobolev, W. Gehlhoff, E. M. Kaidashev, A. Rahm, M. Lorenz, and M. Grundmann
Authors - SANDiE partners: P04 (TU Berlin), P15 (Uni Aveiro), P01 (Uni Leipzig)
Title: Electron Paramagnetic Resonance Characterization in TM-doped ZnO Nanowires
(Planned) journal: J. Appl. Phys. 101, pp. (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-06
• **ID:** 01055
Authors: C. Kristukat, A.R. Goñi, K. Pötschke, D. Bimberg, and C. Thomsen
Authors - SANDiE partners: P04 (TU Berlin)
Title: Dependence of the band-gap pressure coefficients of self-assembled InAs/GaAs quantum dots on the quantum dot size
(Planned) journal: Phys. Stat. Sol. (b) 244 (1), pp. 53 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-06
• **ID:** 01054
Authors: S.A. Blokhin, L.Ya. Karachinsky, I.I. Novikov, S.M. Kuznetsov, N. Yu. Gordeev, Yu.M. Shernyakov, A.V. Savelyev, M.V. Maximov, A. Mutig, F. Hopfer, A.R. Kovsh, S.S. Mikhlin, I.L. Krestnikov, D.A. Livshits, V.M. Ustinov, V.A. Shchukin, N.N. Ledentsov, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: All-epitaxial MBE-grown ultra-large aperture single-mode vertical-cavity surface-emitting laser with filter section
(Planned) journal: IEEE-Journal of Quantum Electronics submitted, pp. (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-06

- **ID:** 01053
Authors: Marten Richter, Kwang Jun Ahn, Andreas Knorr, Andrei Schliwa, Dieter Bimberg, Mohamed El-Amine Madjet, and Thomas Renger
Authors - SANDiE partners: P04 (TU Berlin)
Title: Theory of excitation transfer in coupled nanostructures - from quantum dots to light harvesting complexes
(Planned) journal: Phys. Stat. Sol. (b) 243 (10), 2302 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-06
- **ID:** 01052
Authors: F. Hopfer, A. Mutig, M. Kuntz, G. Fiol, and D. Bimberg, N.N. Ledentsov and V.A. Shchukin, S.S. Mikhlin and A.R. Kovsh. N.D. Zakharov and P. Werner
Authors - SANDiE partners: P04 (TU Berlin)
Title: Single-mode submonolayer quantum dot vertical-cavity surface-emitting lasers with high modulation bandwidth
(Planned) journal: Appl. Phys. Lett. 89, 141106 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-06
- **ID:** 01051
Authors: S.A. Blokhin, N.V. Kryzhanovskaya, A.G. Gladyshev, N.A. Maleev, A.G. Kuzmenkov, E.M. Arakcheeva, E.M. Tanklevskaya, A.E. Zhukov, A.P. Vasil'ev, E.S. Semenova, M.V. Maximov, N.N. Ledentsov, V.M. Ustinov, E. Stock, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Optical study of asymmetric-waveguide submonolayer InGaAs QD microdisks formed by selective oxidation
(Planned) journal: Semiconductors 40 (4), 476 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-06
- **ID:** 01050
Authors: L. Ya. Karachinsky, I. I. Novikov, Yu. M. Shernyakov, S. M. Kuznetsov, N. Yu. Gordeev, M. V. Maximov, and P. S. Kop'ev, U. Ben-Ami, D. B. Arbiv, and A. Sharon, T. Kettler, K. Posilovic, O. Schulz, V. A. Shchukin, U. W. Pohl, N. N. Ledentsov, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: High power GaAs/AlGaAs lasers ($\lambda \sim 850$ nm) with ultranarrow vertical beam divergence
(Planned) journal: Appl. Phys. Lett. 89, 231114 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-06
- **ID:** 01049
Authors: M. Zafar Iqbal, A. Majid, A. Dadgar, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Electric-field-enhanced thermal emission from Osmium-related deep level in n-GaAs
(Planned) journal: Advances in Science and Technology 46, 73 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-06
- **ID:** 01048
Authors: Holger Quast, Christian Meuer, Olaf Reimann, Dieter Huhse, and Dieter Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Dual semiconductor laser system with rapid time-delay for ultrafast measurements
(Planned) journal: Phot. Tech. Lett. 18 (22), 2338 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-06
- **ID:** 01047
Authors: M. Winkelnkemper, R. Seguin, S. Rodt, A. Schliwa, L. Reissmann, A. Strittmatter, A. Hoffmann, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P27 (FHI Berlin)
Title: Polarized Emission Lines from Single InGaN/GaN Quantum Dots: Role of the Valence Band Structure of Wurtzite Group-III Nitrides
(Planned) journal: J. of Appl. Physics
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2007-06-06
- **ID:** 01046
Authors: A. Capua, L. Rozenfeld, V. Mikheleshvili, and G. Eisenstein, M. Kuntz, M. Laemmlin, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Direct correlation between a highly damped modulation response and ultra low relative intensity noise in an InAs/GaAs quantum dot laser
(Planned) journal: Optics Express 15 (9), p. 5388-5393
(Planned) date of publication: 2007-04-18
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-06

- **ID:** 01045
Authors: D. Bimberg, G. Fiol, M. Kuntz, C. Meuer, M. Lämmlin, N. N. Ledentsov, and A. R. Kovsh
Authors - SANDiE partners: P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)
Title: High speed nanophotonic devices based on quantum dots
(Planned) journal: Phys. Stat. Sol. (a) 203 (14) (2006) p. 3523-3532
(Planned) date of publication: 2006-11-10
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-06
- **ID:** 01044
Authors: M.B. Lifshits, V.A. Shechukin, N.N. Ledentsov and D. Bimberg
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin)
Title: Resonance wavelength in planar multilayer waveguides: Control and complete suppression of temperature sensitivity
(Planned) journal: Semicond. Sci. Technol. 22 (2007) p. 380-384
(Planned) date of publication: 2007-03-09
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-06-06
- **ID:** 01043
Authors: T. D. Germann, A. Strittmatter, U. W. Pohl, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Nanoscale Stacking of InGaAs/GaAs Quantum Dots (contributed talk)
(Planned) event: Symposium on Vacuum based Science and Technology, Greifswald, Germany, September 5-7, 2007
(Planned) date of presentation: 2007-09
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2007-06-06
- **ID:** 01042
Authors: A. Marent, M. Geller, D. Feise, K. Pötschke, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: A non-volatile memory based on III-V semiconductor quantum dots (contributed talk)
(Planned) event: European Congress and Exhibition on Advanced Materials and Processes (Euromat 2007), Nürnberg, Germany, September 10-13, 2007
(Planned) date of presentation: 2007-09-13
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2007-06-06
- **ID:** 01041
Authors: M. Winkelkemper, R. Seguin, S. Rodt, A. Schliwa, L. Reissmann, A. Strittmatter, A. Hoffmann, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P27 (FHI Berlin)
Title: Polarized Emission Lines from Single InGaN/GaN Quantum Dots: Role of the Valence Band Structure of Wurtzite Group-III Nitrides
(Planned) event: 13th Int. Conf. on Modulated Semiconductor Structures (MSS 13), Genua, Italy, July 15-20, 2007
(Planned) date of presentation: 2007-07-20
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2007-06-06
- **ID:** 01040
Authors: A. Marent, M. Geller, D. Feise, K. Pötschke, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Towards a Universal Memory Based on Self-Organized Quantum Dots (contributed talk)
(Planned) event: 13th Int. Conf. on Modulated Semiconductor Structures (MSS 13), Genua, Italy, July 15-20, 2007
(Planned) date of presentation: 2007-07-19
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2007-06-06
- **ID:** 01039
Authors: C. Meuer, M. Laemmlin, J. Kim, G. Eisenstein, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Multi Wavelength Ultrahigh Frequency Amplification by Quantum Dot Semiconductor Optical Amplifiers
(Planned) event: 9th International Conference on Transparent Optical Networks (ICTON 2007), Rome, Italy, July 1-5, 2007
(Planned) date of presentation: 2007-07-05
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2007-06-06
- **ID:** 01038
Authors: M. Laemmlin, C. Meuer, J. Kim, D. Bimberg, G. Eisenstein
Authors - SANDiE partners: P04 (TU Berlin)
Title: Static gain saturation spectra of quantum dot optical amplifiers: The role of excited to ground state relaxation (contributed talk)
(Planned) event: CLEO/Europe-IQEC Conference at Photonics Congress 2007, Munich, Germany, June 17-22, 2007
(Planned) date of presentation: 2007-06-20
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2007-06-06
- **ID:** 01037
Authors: N.N. Ledentsov and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Submonolayer Quantum Dots for High Speed Surface Emitting Lasers

(Planned) event: 14th Semiconducting and Insulating Materials Conference (SIMC-XIV), University of Arkansas, Fayetteville, Arkansas, USA, May 15-20, 2007
(Planned) date of presentation: 2007-05-15
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-06-06
• ID: 01036
Authors: Martin Geller
Authors - SANDiE partners: P04 (TU Berlin)
Title: Nanostructures for Nanoelectronics: No Potential for Room Temperature Applications ? (invited talk)
(Planned) event: Low dimensional semiconductor devices (LDS), San Andres, Columbia, April 2007
(Planned) date of presentation: 2007-04-16
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-06-06
• ID: 01035
Authors: F. Hopfer, A. Mutig, G. Fiol, M. Kuntz, V. Shchukin, N.N. Ledentsov, D. Bimberg, S.S. Mikhlin, I.L. Krestnikov, D.A. Livshits, A.R. Kovsh, C. Bornholdt
Authors - SANDiE partners: P04 (TU Berlin), P28 (Innolume)
Title: 10 Gbit/s 1250 nm VCSELs Based on Low-Temperature Grown Quantum Dots (contributed talk)
(Planned) event: Int. Workshop on Physics & Application of Semiconductor Lasers (PHASE 2007) and Int. Workshop on Instabilities, Patterns and Spatial Solitons (IPSSO 2007), Metz, France, March 28-30, 2007
(Planned) date of presentation: 2007-03-29
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-06-06
• ID: 01034
Authors: N.A. Sobolev, M.A. Oliveira, R.M. Rubinger, A.J. Neves, M.C. Carmo, V.P. Lesnikov, V.V. Podolskii, Yu.A. Danilov, E.S. Demidov
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Ferromagnetic resonance and Hall effect characterization of GaMnSb layers
(Planned) event: Fourth Internat. School and Conf. on Spintronics and Quantum Information Technology (Spintech IV) (June 17–22, Maui, Hawaii)
(Planned) date of presentation: 2007-06-18
Research paper in international journal? (y/n): n
Status: to be presented
Submitted to Network Office: 2007-06-05
• ID: 01033
Authors: A.D. Bouravleuv, S. Mitani, R.M. Rubinger, M.C. Carmo, N.A. Sobolev, T. Ishibashi, A. Koukitu, K.Sato
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Magnetic properties of MnP nanowhiskers grown by MBE
(Planned) event: The 17th Intern. Conf. on Electronic Properties of Two-Dimensional Systems (EP2DS-17) and the 13th Intern. Conf. on Modulated Semiconductor Structures (MSS-13) (Genova, July 15–20, 2007)
(Planned) date of presentation: 2007-07-16
Research paper in international journal? (y/n): n
Status: to be presented
Submitted to Network Office: 2007-06-05
• ID: 01032
Authors: A.O. Ankiewicz, W. Gehlhoff, A.S. Pereira, S. Pereira, A. Hoffmann, M. Grundmann, M.C. Carmo, T. Trindade, N.A. Sobolev
Authors - SANDiE partners: P15 (Uni Aveiro), P01 (Uni Leipzig), P04 (TU Berlin)
Title: EPR Study of Mn- and Co-Doped Colloidal ZnO Quantum Dots
(Planned) event: E-MRS 2007 Spring Meeting (Strasbourg, May 28 – June 1, 2007)
(Planned) date of presentation: 2007-05-30
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-06-05
• ID: 01031
Authors: N.M. Santos, N.A. Sobolev, J.P. Leitão, M.C. Carmo, D. Fuster, L. González, Y. González, W. Wesch
Authors - SANDiE partners: P15 (Uni Aveiro), P22 (CSIC, Madrid)
Title: Enhanced radiation hardness of InAs/InP quantum wires
(Planned) event: E-MRS 2007 Spring Meeting (Strasbourg, May 28 – June 1, 2007)
(Planned) date of presentation: 2007-05-30
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-06-05
• ID: 01030
Authors: A.F. Zinoveva, A.V. Dvurechenskii, N.P. Stepina, A.S. Deryabin, A.I. Nikiforov, R. Rubinger, N.A. Sobolev, J.P. Leitão, M.C. Carmo
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: EPR of electrons localized on Ge/Si quantum dots
(Planned) event: E-MRS 2007 Spring Meeting (Strasbourg, May 28 – June 1, 2007)
(Planned) date of presentation: 2007-05-30
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-06-05
• ID: 01029
Authors: J.P. Leitão, N.M. Santos, N.A. Sobolev, N.P. Stepina, M.C. Carmo, E. Alves, A.V. Novikov, M.V. Shaleev, D.N. Lobanov, Z.F.

Krasilnik

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: Optical and structural properties of Si/Ge heterostructures.

(Planned) event: E-MRS 2007 Spring Meeting (Strasbourg, May 28 – June 1, 2007)

(Planned) date of presentation: 2007-05-29

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-06-05

• **ID:** 01028

Authors: R.M. Rubinger, A.O. Ankiewicz, M.C. Carmo, N.A. Sobolev, A. Moreira dos Santos, M.S. Reis, V.S. Amaral, P. Brandão, J. Rocha

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: Electron para- and ferromagnetic resonance in Cu-chain compound $\text{Na}_2\text{Cu}_5\text{Si}_4\text{O}_{14}$

(Planned) event: E-MRS 2007 Spring Meeting (Strasbourg, May 28 – June 1, 2007)

(Planned) date of presentation: 2007-05-29

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-06-05

• **ID:** 01027

Authors: J.P. Leitão, N.A. Sobolev, M.R. Correia, M.C. Carmo, N. Stepina, A. Yakimov, A. Nikiforov, E. Alves

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: Electronic properties of Ge islands embedded in multilayer and superlattice structures

(Planned) event: 5th International Conference on Silicon Epitaxy and Heterostructures (Marseille, May 20–25, 2007)

(Planned) date of presentation: 2007-05-21

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-06-05

• **ID:** 01026

Authors: N.P. Stepina, A.V. Dvurechenskii, V.A. Armbrister, Zh.V. Smagina, V.A. Volodin, J.P. Leitão, M.C. do Carmo, N.A. Sobolev

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: MBE growth of Ge/Si quantum dots upon low-energy pulsed ion irradiation

(Planned) event: 5th International Conference on Silicon Epitaxy and Heterostructures (Marseille, May 20–25, 2007)

(Planned) date of presentation: 2007-05-21

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-06-05

• **ID:** 01025

Authors: A.O. Ankiewicz, W. Gehlhoff, A.S. Pereira, S. Pereira, A. Hoffmann, E.M. Kaidashev, A. Rahm, M. Lorenz, M. Grundmann, M.C. Carmo, T. Trindade, N.A. Sobolev

Authors - SANDiE partners: P15 (Uni Aveiro), P1 (Uni Leipzig), P4 (TU Berlin)

Title: Electron Paramagnetic Resonance in Transition Metal Doped ZnO Nanostructures

(Planned) event: 4th Nanospain Workshop (Sevilla, March 12–15, 2007)

(Planned) date of presentation: 2007-03-12

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-06-05

• **ID:** 01024

Authors: J.P. Leitão, N.A. Sobolev, M. R. Correia, M. C. Carmo, N. Stepina, A. Yakimov, A. Nikiforov, S. Magalhães, E. Alves

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: Electronic properties of Ge islands embedded in multilayer and superlattice structures

(Planned) journal: Thin Solid Films

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: submitted

Submitted to Network Office: 2007-06-05

• **ID:** 01023

Authors: N.P. Stepina, A.V. Dvurechenskii, V.A. Ambrister, J.V. Smagina, V.A. Volodin, A.V. Nenashev, J.P. Leitão, M.C. do Carmo, N.A. Sobolev

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: MBE growth of Ge/Si quantum dots upon low-energy pulsed ion irradiation

(Planned) journal: Thin Solid Films

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: submitted

Submitted to Network Office: 2007-06-05

• **ID:** 01022

Authors: R.M. Rubinger, N.A. Sobolev, A.O. Ankiewicz, M.C. do Carmo, A.M. dos Santos, M.S. Reis, V.S. Amaral, P. Brandão, J. Rocha

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: Electron magnetic resonance of copper chain silicate $\text{Na}_2\text{Cu}_5\text{Si}_4\text{O}_{14}$

(Planned) journal: Solid State Sciences

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: submitted

Submitted to Network Office: 2007-06-05

• **ID:** 01021

Authors: Ch. Giesen and R. Beccard

Authors - SANDiE partners: P21 (AIXTRON)

Title: MOCVD technology for production of indium nitride based nanophotonic devices
(Planned) event: MONA Symposium/Workshop on 28th and 29th November 2006 in Grenoble, France
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-06-01
• ID: 01020
Authors: P. Nemeč, P. Nahálková, D. Sprinzl, P. Malý, V. N. Gladilin, J. T. Devreese
Authors - SANDiE partners: P03 (Uni Antwerpen), A02 (Charles Uni, Prague)
Title: Spin-sensitive differential transmission experiments in quasi-spherical CdS quantum dots
(Planned) journal: Physica Status Solidi (c) 3, 4291-4294 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-05-31
• ID: 01019
Authors: V. M. Fomin, V. N. Gladilin, J. T. Devreese, N. A. J. M. Kleemans, H. C. M. van Genuchten, P. M. Koenraad
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Two-Electron Self-Assembled InGaAs/GaAs Ring-Like Nanostructures: Energy Spectrum and Oscillatory Magnetization
(Planned) event: International Conference “Physics of low-dimensional structures”, June 27-28, 2007, Chisinau, Moldova
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: accepted
Submitted to Network Office: 2007-05-31
• ID: 01018
Authors: V. M. Fomin, V. N. Gladilin, J. T. Devreese, N. A. J. M. Kleemans, H. C. M. van Genuchten, P. M. Koenraad
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Effects of the Coulomb Interaction between Charge Carriers in Self-Assembled InGaAs/GaAs Ring-Like Nanostructures
(Planned) event: 2007 March Meeting of the American Physical Society “Laser Applications in Life Sciences-2007”, June 11-14, 2007, Moscow, Russia, paper No. 136
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: accepted
Submitted to Network Office: 2007-05-31
• ID: 01017
Authors: V.M. Fomin, V.N. Gladilin, J.T. Devreese, N.A.J.M. Kleemans, H.C.M. van Genuchten, P.M. Koenraad
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Energy Spectra and Oscillatory Magnetization of Two-Electron Self-Assembled InGaAs/GaAs Ring-Like Nanostructures
(Planned) event: 2007 March Meeting of the American Physical Society, March 5–9, 2007, Denver, USA. No. V43.14.
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-05-31
• ID: 01016
Authors: V. M. Fomin, V. N. Gladilin, J. T. Devreese, N. A. J. M. Kleemans, H. C. M. van Genuchten, P. M. Koenraad
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Two-electron self-assembled InGaAs/GaAs ring-like nanostructures: Energy spectrum and magnetization
(Planned) event: One Day Quantum Dot Meeting, January 19, 2007, Nottingham, UK
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: poster presented
Submitted to Network Office: 2007-05-31
• ID: 01015
Authors: G. Sek, M. Motyka, K. Ryczko, J. Andrzejewski, R. Kudrawiec, J. Misiewicz, F. Lelarge, B. Rousseau, and G. Patriarche
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Modulation spectroscopy characterization of InAs/GaInAsP/InP quantum dash laser structures
(Planned) journal: Proc. SPIE Int. Soc. Opt. Eng. 6481, 64810D (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-05-30
• ID: 01014
Authors: G. Sek, K. Ryczko, M. Motyka, J. Andrzejewski, K. Wysocka, J. Misiewicz, L. H. Li, A. Fiore, and G. Patriarche
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Wetting layer states of InAs/GaAs self-assembled quantum dot structures: Effect of intermixing and capping layer
(Planned) journal: J. Appl. Phys. 101, 063539 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-05-30
• ID: 01013
Authors: M. Motyka, G. Sek, K. Ryczko, J. Andrzejewski, J. Misiewicz, L. H. Li, A. Fiore, and G. Patriarche
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Optical and electronic properties of GaAs-based structures with columnar quantum dots
(Planned) journal: Appl. Phys. Lett. 90, 181933 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2007-05-30
• **ID:** 01012
Authors: O. Krebs, B. Eble, A. Lemaître, B. Urbaszek, K. Kowalik, A. Kudelski, X. Marie, T. Amand, P. Voisin
Authors - SANDiE partners: P11 (LPN/CNRS), A01 (Institute of Physics, PAS, Warsaw)
Title: Role of hyperfine interaction on electron spin optical orientation in charge-controlled InAs-GaAs single quantum dots
(Planned) journal: physica status solidi (a) Volume 204, Issue 1, Date: January 2007, Pages: 202-207
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-05-30
• **ID:** 01011
Authors: K. Kowalik, O. Krebs, P. Senellart, A. Lemaître, B. Eble, A. Kudelski, J. Gaj, P. Voisin
Authors - SANDiE partners: P11 (LPN/CNRS), A01 (Institute of Physics, PAS, Warsaw)
Title: Stark spectroscopy of Coulomb interactions in individual InAs/GaAs self-assembled quantum dots
(Planned) journal: physica status solidi (c) Volume 3, Issue 11, Date: December 2006, Pages: 3890-3894
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-05-30
• **ID:** 01010
Authors: K. Kowalik, O. Krebs, A. Golnik, J. Suffczynski, P. Wojnar, J. Kossut, J. A. Gaj, and P. Voisin
Authors - SANDiE partners: P11 (LPN/CNRS), A01 (Institute of Physics, PAS, Warsaw)
Title: Manipulating the exciton fine structure of single CdTe/ZnTe quantum dots by an in-plane magnetic field
(Planned) journal: Phys. Rev. B 75, 195340 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-05-30
• **ID:** 01009
Authors: F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Graphene: a route to carbon based electronics
(Planned) event: First Moroccan Days on Nanoscience & Nanotechnology (MDNN1) L'Universit Alakhawayn Ifrane (Maroc), 8-10 April 2007
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-05-29
• **ID:** 01008
Authors: F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Resonant tunneling in graphene microstructures
(Planned) event: The sixth Int. Conf. on Low Dimensional Structures and Devices (LDS2007) San Andres (Columbia), 15-20 April 2007
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-05-29
• **ID:** 01007
Authors: P. Foldi, B. Molnar, M.G. Benedict, and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Spintronic single qubit gate based on a quantum ring with spin-orbit interaction
(Planned) event: Phys. Rev. B 71, 033309, 2005, 4 pages
(Planned) date of presentation: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-05-29
• **ID:** 01006
Authors: P. Foldi, M.G. Benedict, J.M. Pereira, and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Dynamics of molecular nanomagnets in time-dependent external magnetic fields: Beyond the Landau-Zener-Stueckelberg model
(Planned) journal: Phys. Rev. B
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-05-29
• **ID:** 01005
Authors: S. Borza, F.M. Peeters, P. Vasilopoulos, and G. Papp
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Electric-field manipulation of spin states in confined non-magnetic/magnetic heterostructures
(Planned) journal: J. Phys.: Condens. Matter
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-05-29
• **ID:** 01004
Authors: E. Anisimovas and F.M. Peeters

Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Biexciton spin and angular momentum transitions in vertically coupled quantum dots
(Planned) journal: Phys. Rev. B, 71, 115319, 2005, 8 pages
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-05-29
 • ID: 01003
Authors: B. Szafran and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Lorentz force induced asymmetry in the Aharonov-Bohm effect in a three terminal semiconductor quantum ring
(Planned) journal: Europhys. Lett. 70, 810-816, 2005
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-05-29
 • ID: 01002
Authors: B. Szafran and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Three electrons in laterally coupled quantum dots: tunnel vs electrostatic coupling, ground-state symmetry, and interdot correlations
(Planned) journal: Phys. Rev. B 71, 245314, 2005, 10 pages
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-05-29
 • ID: 01001
Authors: B. Szafran and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Time-dependent simulations of electron transport through a quantum ring: effect of the Lorentz force
(Planned) journal: Phys. Rev. B 72, 165301, 2005, 8 pages
(Planned) date of presentation: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-05-29
 • ID: 01000
Authors: P. Wojnar, A. Ebbens, J. Suffczynski, K. Kowalik, A. Golnik, G. Karczewski, U. Woggon, J. Kossut
Authors - SANDiE partners: P20 (Uni Dortmund), A01 (Institute of Physics, PAS, Warsaw)
Title: The influence of the quantum dots size and Mn content on the optical properties of self assembled CdMnTe quantum dots
(Planned) event: II-VI conference
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2007-05-29
 • ID: 00999
Authors: V. Mlinar, A. Schliwa, D. Bimberg, and F. M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen), P04 (TU Berlin)
Title: Theoretical study of electronic and optical properties of inverted GaAs/Al_xGa_{1-x}As quantum dots with smoothed interfaces in an external magnetic field
(Planned) journal: PHYSICAL REVIEW B 75, 205308, 2007
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-05-24
 • ID: 00998
Authors: T. Nuytten, M. Hayne, L. Seravalli, S. Franchi and V. V. Moshchalkov
Authors - SANDiE partners: P02 (KU Leuven), P29 (Lancaster University), P14 (CNR-IMEM)
Title: Excitonic Properties of Strain-Engineered InAs/InGaAs/GaAs Quantum Dots
(Planned) event: LWQD2007 in Rennes, France
(Planned) date of presentation: 2007-07-05 to 2007-07-06
Research paper in international journal? (y/n): n
Status: accepted Poster on LWQD2007
Submitted to Network Office: 2007-05-15
 • ID: 00997
Authors: S. Godefroo, M. Hayne, M. Jivanescu, A. Stesmans, V. Talalaev, M. Zacharias and V. V. Moshchalkov
Authors - SANDiE partners: P02 (KU Leuven), P05 (MPI Halle), P29 (Lancaster University)
Title: Quantum confinement versus defects as the origin of PL in Si nanocrystals
(Planned) event: Belgian Physical Society meeting (BPS) Antwerp, Belgium
(Planned) date of presentation: 2007-05-30
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-05-10
 • ID: 00996
Authors: Thomas Nuytten, Manus Hayne, Mohamed Henini and Victor V. Moshchalkov
Authors - SANDiE partners: P02 (KU Leuven), P09 (Uni Nottingham), P29 (Uni Lancaster)
Title: Magneto-Photoluminescence of Self-Assembled InAs Quantum Dots As a Function of Temperature
(Planned) event: Belgian Physical Society (BPS) Antwerp, Belgium
(Planned) date of presentation: 2007-05-30

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-05-10

• **ID:** 00995

Authors: Bansal B., Hayne M., Geller M., Bimberg D., Moshchalkov V.V.

Authors - SANDiE partners: P02 (KU Leuven), P04 (TU Berlin), P29 (Uni Lancaster)

Title: Excitonic Mott transition in GaSb/GaAs quantum dots

(Planned) event: 13th International Conference on Modulated Semiconductor Structures, Genova, Italy

(Planned) date of presentation: 2007-07-15 to 2007-07-20

Research paper in international journal? (y/n): n

Status: accepted

Submitted to Network Office: 2007-05-10

• **ID:** 00994

Authors: A. Baumgartner, L. Turyanska, A. Chaggar, A. Patane, L. Eaves, M. Henini

Authors - SANDiE partners: P09 (Uni Nottingham)

Title: Sharp Electroluminescence Lines Excited by Tunneling Injection Into a Large Ensemble of Quantum Dots

(Planned) event: 28th International Conference on the Physics of Semiconductors, edited by W. Jantsch and F. Schaffler, pp. 759-760 (2007)

(Planned) date of presentation: 2007

Research paper in international journal? (y/n): n

Status: presented, published

Submitted to Network Office: 2007-05-08

• **ID:** 00993

Authors: H. Paetzelt, V. Gottschalch, J. Bauer, G. Wagner

Authors - SANDiE partners: P01 (Uni Leipzig)

Title: Fabrication and characterization of $A_{III}B_V$ nano- and microtubes

(Planned) event: International Workshop "Self-assembly of complex nanostructures", Leipzig, Germany

(Planned) date of presentation: 2006-09-25 to 2006-09-26

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-23

• **ID:** 00992

Authors: J. Bauer, V. Gottschalch, H. Paetzelt, G. Wagner

Authors - SANDiE partners: P01 (Uni Leipzig)

Title: The growth behavior of upright GaAs-nanowires in MOVPE and their structural properties

(Planned) event: International Workshop "Self-assembly of complex nanostructures", Leipzig, Germany

(Planned) date of presentation: 2006-09-25 to 2006-09-26

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-23

• **ID:** 00991

Authors: R. Schmidt-Grund, B. Rheinländer, C. Czekalla, T. Günhe, G. Benndorf, H. Hochmut, A. Rahm, V. Gottschalch, R. Heimbuch, J. Lenzner, and M. Grundmann

Authors - SANDiE partners: P01 (Uni Leipzig)

Title: Towards cylindrical ZnO resonators with coaxial Bragg-Reflectors

(Planned) event: International Workshop "Self-assembly of complex nanostructures", Leipzig, Germany

(Planned) date of presentation: 2006-09-25 to 2006-09-26

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-23

• **ID:** 00990

Authors: Evgeni M. Kaidashev

Authors - SANDiE partners: P01 (Uni Leipzig)

Title: Pulsed laser deposition of ZnO nanowires

(Planned) event: International Workshop "Self-assembly of complex nanostructures", Leipzig, Germany

(Planned) date of presentation: 2006-09-25 to 2006-09-26

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-23

• **ID:** 00989

Authors: Richard Warburton

Authors - SANDiE partners: P10 (HWU Edinburgh)

Title: Magneto-excitons in quantum dots

(Planned) event: Application of High Magnetic Fields in Semiconductor Physics, Wurzburg, Germany

(Planned) date of presentation: 2006-08

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-23

• **ID:** 00988

Authors: Richard Warburton

Authors - SANDiE partners: P10 (HWU Edinburgh)

Title: Exploiting the resonant interaction of a quantum dot with a narrowband laser

(Planned) event: Rank Prize mini-symposium on Quantum Information Processing using Semiconductor Quantum Dots, Windermere, UK

(Planned) date of presentation: 2007-04

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-23

- **ID:** 00987
Authors: T. Ben, F. Suárez, L. González, Y. González, J. M. García, M. L. Dotor y S. I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz), P22 (CSIC, Madrid)
Title: Naturaleza y origen de la modulación de espesor en guías de ondas para hilos cuánticos de InAs formadas a partir de superredes de período corto de $(\text{InP})_m/(\text{In}_{0.53}\text{Ga}_{0.47}\text{As})_n$
(Planned) event: XIII Bienal de la Sociedad de Microscopía de España
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-20
- **ID:** 00986
Authors: T. Ben, D. L. Sales, J. Pizarro, P. L. Galindo, M. Varela, S. J. Pennycook, D. Fuster, L. González, Y. González, S. Kret and S. I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz), P22 (CSIC, Madrid)
Title: Influence of the growth temperature of the InP capping layer on the stacking of InAs quantum wire layers: theoretical and experimental studies of the strain field
(Planned) event: EMAG 2007 Congress
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-20
- **ID:** 00985
Authors: A. M. Beltran, T. Ben, A.M. Sánchez, J.M. Ripalda, Jorge M. García, Y. González, L.González, S.I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz), P22 (CSIC Madrid)
Title: CONTROL OF THE INTERMIXING OF GaSb WITH InAs QUANTUM DOTS BY INSERTING A GaAs SPACER LAYER
(Planned) event: Microscopy of Semiconducting Materials XV (Cambridge, UK) 1-5 April 2007
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: poster presented
Submitted to Network Office: 2007-04-20
- **ID:** 00984
Authors: Andreas Marent, Martin Geller, David Feise, Konstantin Pötschke, and Dieter Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: A non-volatile memory device based on self-organized quantum dots
(Planned) event: 71st Annual Meeting 2007 and DPG-Spring Meeting of the Division Condensed Matter, Regensburg, March 26-30, 2007
(Planned) date of presentation: 2007-03-29
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-11
- **ID:** 00983
Authors: Erik Stock, Anatol Lochmann, Till Warming, Dieter Bimberg, Vladimir A. Haisler, A. I. Toropov, A.K. Bakarov, and A.K. Kalagin
Authors - SANDiE partners: P04 (TU Berlin)
Title: Switch-on process of an electrically pumped singlequantum dot
(Planned) event: 71st Annual Meeting 2007 and DPG-Spring Meeting of the Division Condensed Matter, Regensburg, March 26-30, 2007
(Planned) date of presentation: 2007-03-28
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-11
- **ID:** 00982
Authors: Momme Winkelkemper, Robert Seguin, Sven Rodt, Andrei Schliwa, Lars Reißmann, Andre Strittmatter, Axel Hoffmann, and Dieter Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P27 (FHI Berlin)
Title: Polarized emission lines from A- and B-type excitonic complexes in single InGaN/GaN quantum dots
(Planned) event: 71st Annual Meeting 2007 and DPG-Spring Meeting of the Division Condensed Matter, Regensburg, March 26-30, 2007
(Planned) journal: JOURNAL OF APPLIED PHYSICS 101, 113708, 2007
(Planned) date of presentation: 2007-03-28
Research paper in international journal? (y/n): y
Status: presented, published
Submitted to Network Office: 2007-04-11
- **ID:** 00981
Authors: Robert Seguin, Andrei Schliwa, Tim Germann, Sven Rodt, Konstantin Pötschke, Udo Pohl, and Dieter Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Thermal annealing of selected individual quantum dots
(Planned) event: 71st Annual Meeting 2007 and DPG-Spring Meeting of the Division Condensed Matter, Regensburg, March 26-30, 2007
(Planned) date of presentation: 2007-03-27
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-11
- **ID:** 00980
Authors: Stefan Werner, Patrick Zimmer, André Strittmatter, and Axel Hoffmann
Authors - SANDiE partners: P04 (TU Berlin)
Title: Phonon interactions in InGaAs/GaAs quantum dots
(Planned) event: 71st Annual Meeting 2007 and DPG-Spring Meeting of the Division Condensed Matter, Regensburg, March 26-30, 2007
(Planned) date of presentation: 2007-03-27
Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-11

• **ID:** 00979

Authors: Ermin Malic, Moritz Bormann, Philipp Hövel, Matthias Kuntz, Dieter Bimberg, Andreas Knorr, and Eckehard Schöll

Authors - SANDiE partners: P04 (TU Berlin)

Title: Turn-on dynamics and modulation response in semiconductor quantum dot lasers

(Planned) event: 71st Annual Meeting 2007 and DPG-Spring Meeting of the Division Condensed Matter, Regensburg, March 26-30, 2007

(Planned) date of presentation: 2007-03-27

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-11

• **ID:** 00978

Authors: David Feise, Konstantin Pötschke, Andreas Marent, Martin Geller, Udo Pohl und Dieter Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Herstellung von InAs/GaAs-Quantenpunktstrukturen zur Ladungsträgerspeicherung

(Planned) event: 71st Annual Meeting 2007 and DPG-Spring Meeting of the Division Condensed Matter, Regensburg, March 26-30, 2007

(Planned) date of presentation: 2007-03-26

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-11

• **ID:** 00977

Authors: Tim David Germann, André Strittmatter, Thorsten Kettler, Kristijan Posilovic, Udo W. Pohl, and Dieter Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Transferring achievements of quantum dot test structures to laser devices

(Planned) event: 71st Annual Meeting 2007 and DPG-Spring Meeting of the Division Condensed Matter, Regensburg, March 26-30, 2007

(Planned) date of presentation: 2007-03-26

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-11

• **ID:** 00976

Authors: C. Meuer, M. Laemmlin, G. Fiol, M. Kuntz, N.N. Ledentsov, A.R. Kovsh, S. Ferber, C. Schubert, A. Steffan, A. Umbach and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: High frequency signal amplification using quantum dot semiconductor optical amplifiers at 1.3 μm

(Planned) event: Europ. Conf. on Optical Communication (ECOC 2006), Cannes, France, September 2006

(Planned) date of presentation: 2006-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-11

• **ID:** 00975

Authors: Ermin Malic, Kwang J. Ahn, Moritz J. P. Bormann, Philipp Hövel, Eckehard Schöll, and Andreas Knorr, Matthias Kuntz and Dieter Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Coulomb damped relaxation oscillations in semiconductor quantum dot lasers

(Planned) event: 20th International Semiconductor Laser Conference, Kohala Coast, Hawaii, USA, September 2006

(Planned) date of presentation: 2006-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-11

• **ID:** 00974

Authors: C. Cornet, M. Hayne, A. Schliwa, F. Doré, J. Even, D. Bimberg, V. V. Moshchalkov and S. Loualiche

Authors - SANDiE partners: P12 (INSA-Lens), P04 (TU Berlin), P29 (Uni Lancaster), P02 (KU Leuven)

Title: InAs/InP quantum dots (QD): from fundamental understanding to coupled QD laser applications

(Planned) event: Int. Conf. on Superlattices, Nano-Structures and Nano-Devices, Istanbul, Turkey, July/August 2006

(Planned) journal: Phys. Stat. Sol. (c) 4 (3), pp. 458 (2007)

(Planned) date of presentation: 2006

Research paper in international journal? (y/n): y

Status: presented, published

Submitted to Network Office: 2007-04-11

• **ID:** 00973

Authors: Anatol Lochmann, Erik Stock, Oliver Schulz, Friedhelm Hopfer, Vladimir A. Haisler, Dieter Bimberg, Aleksandr I. Toropov, Askhat K. Bakarov, Aleksandr K. Kalagin, Matthias Scholz, Sven Büttner, and Oliver Benson

Authors - SANDiE partners: P04 (TU Berlin)

Title: Realization of the ultimate limit of a light emitting diode

(Planned) event: 28th Int. Conf. on the Physics of Semiconductors, Vienna, Austria, July 2006

(Planned) date of presentation: 2006-07

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-11

• **ID:** 00972

Authors: Maria B. Lifshits, Vitaly A. Shchukin, Nikolai N Ledentsov, and Dieter Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Ultimate control of the thermal shift of a tilted cavity laser wavelength

(Planned) event: 28th Int. Conf. on the Physics of Semiconductors, Vienna, Austria, July 2006

(Planned) date of presentation: 2006-07

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-11

• **ID:** 00971

Authors: Leonid Ya. Karachinsky, Innokenty I. Novikov, Thorsten Kettler, Nikita Yu. Gordeev, Mikhail V. Maximov, Yuri M. Shernyakov, Natalia V. Kryzhanovskaya, Alexey E. Zhukov, Elizaveta S. Semenova, Alexey P. Vasilev, Victor M. Ustinov, Gerrit Fiol, Matthias Kuntz, Kristijan Posilovic, Anatol Lochmann, Oliver Schulz, Lars Reissmann, Alexey R. Kovsh, Sergey S. Mikhlin, Vitaly A. Shchukin, Nikolai N. Ledentsov, and Dieter Bimberg

Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe), P28 (Nanosemiconductor)

Title: Competition of different recombination channels in metamorphic 1.5 μm range quantum dot lasers on GaAs substrate

(Planned) event: 28th Int. Conf. on the Physics of Semiconductors, Vienna, Austria, July 2006

(Planned) date of presentation: 2006-07

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-11

• **ID:** 00970

Authors: Matthias Dworzak, Momme Winkelkemper, Thomas Stempel, Axel Hoffmann, and Dieter Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: The origin of the broad distribution of exciton lifetimes in InGaN quantum dots

(Planned) event: 28th Int. Conf. on the Physics of Semiconductors, Vienna, Austria, July 2006

(Planned) date of presentation: 2006-07

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-11

• **ID:** 00969

Authors: Charles Cornet, Manus Hayne, Andrei Schliwa, François Doré, Christophe Labbé, Hervé Folliot, Jacky Even, Dieter Bimberg, Victor Moshchalkov, and Slimane Loualiche

Authors - SANDiE partners: P12 (INSA-Lens), P04 (TU Berlin), P29 (Uni Lancaster), P02 (KU Leuven)

Title: Theory and experiment of InAs/InP quantum dots: from calculations to laser emission

(Planned) event: 28th Int. Conf. on the Physics of Semiconductors, Vienna, Austria, July 2006

(Planned) date of presentation: 2006-07

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-11

• **ID:** 00968

Authors: Bhavtosh Bansal, Manus Hayne, Martin Geller, Dieter Bimberg, and Victor Moshchalkov

Authors - SANDiE partners: P04 (TU Berlin), P29 (Uni Lancaster), P02 (KU Leuven)

Title: Thermal and optical manipulation of hole occupancy in type-II self-assembled GaSb/GaAs quantum dots

(Planned) event: 28th Int. Conf. on the Physics of Semiconductors, Vienna, Austria, July 2006

(Planned) date of presentation: 2006-07

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-11

• **ID:** 00967

Authors: A. Schliwa

Authors - SANDiE partners: P04 (TU Berlin)

Title: Theory of excitons in low dimensions

(Planned) event: Int. Symposium: "Semiconductor Nanostructures", TU Berlin, September 2006

(Planned) date of presentation: 2006

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-11

• **ID:** 00966

Authors: U.W. Pohl

Authors - SANDiE partners: P04 (TU Berlin)

Title: Self-organized epitaxial quantum dots - Growth, optical properties, and applications

(Planned) event: MRS Fall Meeting, Boston, Mass., USA, November 2006

(Planned) date of presentation: 2006-11

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-11

• **ID:** 00965

Authors: U.W. Pohl

Authors - SANDiE partners: P04 (TU Berlin)

Title: Impact of quantum dot size on the optical properties of confined exciton complexes

(Planned) event: Int. Symposium: "Semiconductor Nanostructures", TU Berlin, September 2006

(Planned) date of presentation: 2006-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-04-11

• **ID:** 00964

Authors: N.N. Ledentsov

Authors - SANDiE partners: P04 (TU Berlin)

Title: High speed surface emitting lasers

(Planned) event: Int. Symposium: "Semiconductor Nanostructures", TU Berlin, September 2006

(Planned) date of presentation: 2006-09

Research paper in international journal? (y/n): n

Status: presented
Submitted to Network Office: 2007-04-11
 • **ID:** 00963
Authors: N.N. Ledentsov
Authors - SANDiE partners: P04 (TU Berlin)
Title: MBE-grown metamorphic lasers for applications at telecom wavelengths
(Planned) event: New York State University, Buffalo, USA, September 2006
(Planned) date of presentation: 2006-09
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-11
 • **ID:** 00962
Authors: N.N. Ledentsov
Authors - SANDiE partners: P04 (TU Berlin)
Title: MBE-grown metamorphic lasers for applications at telecom wavelengths
(Planned) event: 14th Intern.Conf. on Molecular Beam Epitaxy (MBE2006), Tokyo, Japan, September 2006
(Planned) date of presentation: 2006-09
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-11
 • **ID:** 00961
Authors: F. Hopfer
Authors - SANDiE partners: P04 (TU Berlin)
Title: Nanostructures for nanoelectronics: No potential for room temperature applications?
(Planned) event: Japan - Germany JST-DFG Joint Workshop, "Nano-Electronics", Tokyo, Japan, October/November 2006
(Planned) date of presentation: 2006-10 to 2006-11
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-11
 • **ID:** 00960
Authors: M. Geller
Authors - SANDiE partners: P04 (TU Berlin)
Title: Nanostructures for nanoelectronics: No potential for room temperature applications?
(Planned) event: Low dimensional semiconductor devices (LDSD), San Andres, Columbia, April 2007
(Planned) date of presentation: 2007-04
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-11
 • **ID:** 00959
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Nanostructures for nanoelectronics: No potential for room temperature applications?
(Planned) event: Colloquium at University of California, Berkeley, USA, January 2007
(Planned) date of presentation: 2007-01
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-11
 • **ID:** 00958
Authors: D. Bimberg, G. Fiol, C. Meuer, M. Laemmlin and M. Kuntz
Authors - SANDiE partners: P04 (TU Berlin)
Title: High frequency nanophotonic devices
(Planned) event: Novel In-Plane Semiconductor Lasers VI at Photonics West, San Jose, USA, January 2007
(Planned) date of presentation: 2007-01-22
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-11
 • **ID:** 00957
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Von der Invention zu Innovation
(Planned) event: nanoDe 2006 – Strategien für Produkte von Morgen, Dritte BMBF-Nanotechnologietage, Berlin, Germany, November 2006
(Planned) date of presentation: 2006-11
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-11
 • **ID:** 00956
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: History, highlights, challenges
(Planned) event: Int. Symposium: "Semiconductor Nanostructures", TU Berlin, Germany, September 2006
(Planned) date of presentation: 2006-09
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-11
 • **ID:** 00955
Authors: P. Foldi, O. Kalman, M.G. Benedict, and F.M. Peeters

Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Quantum rings as electron spin beam splitters
(Planned) journal: Phys. Rev. B 73, 155325 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-04-06
 • **ID:** 00954
Authors: G. Papp, S. Borza, and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Spin Transport through a ZnSe based Diluted Magnetic semiconductor resonant tunneling structure in the presence of electric and magnetic fields
(Planned) journal: Phys. Stat. Sol. (b) 243, 1956-1962 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-04-06
 • **ID:** 00953
Authors: G. Papp and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Tuneable giant magneto-resistance with magnetic barriers
(Planned) journal: J. Appl. Phys. 100, 043707 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-04-06
 • **ID:** 00952
Authors: A. Baumgartner, T. Ihn, K. Ensslin, G. Papp, F.M. Peeters, K. Maranowski, and A.C. Gossard
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Classical Hall effect in scanning gate experiments
(Planned) journal: Phys. Rev. B 74, 165426 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-04-06
 • **ID:** 00951
Authors: K. Nelissen, A. Matulis, B. Partoens, M. Kong and F. M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Spectrum of classical two-dimensional Coulomb clusters
(Planned) journal: Phys. Rev. E 73, 016607 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-04-06
 • **ID:** 00950
Authors: I. Chwiej T, Bednarek S, Szafran B, J. Adamowski, F. M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: FM, Broken one-particle symmetry in few-electron coupled quantum dots
(Planned) journal: PHYS REV B 73, 075422 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-04-06
 • **ID:** 00949
Authors: P. Nahálková, D. Sprinzl, P. Malý, P. Nemeč, V. N. Gladilin, J. T. Devreese
Authors - SANDiE partners: P03 (Uni Antwerpen), A02 (Charles Uni, Prague)
Title: Two-phonon assisted exciton spin relaxation due to exchange interaction in spherical quantum dots
(Planned) journal: Phys Rev. B 75, 113306, 1-4 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-04-06
 • **ID:** 00948
Authors: J. T. Devreese
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: On the Response Properties of Fröhlich Polarons
(Planned) event: Joint Physics/Mathematics Workshop on Quantum Few-Body Systems, Aarhus, Denmark
(Planned) date of presentation: 2007-03-19 to 2007-03-20
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-06
 • **ID:** 00947
Authors: J. T. Devreese
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Importance of Nanosensors: Feynman's Vision and the Birth of Nanotechnology
(Planned) event: 2006 MRS Fall Meeting, Boston, USA
(Planned) date of presentation: 2006-11-27 to 2006-12-01

Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-06
• ID: 00946
Authors: F. Brosens
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Quantum statistics for a finite number of polarons in a quantum dot
(Planned) event: ESF Exploratory Workshop EW05-105 "Mott's Physics in Nanowires and Quantum Dots", University of Cambridge, United Kingdom
(Planned) date of presentation: 2006-07-31 to 2006-08-02
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-06
• ID: 00945
Authors: J. T. Devreese
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Fröhlich Polarons from 3D to 0D: Concepts and Recent Developments
(Planned) event: ESF Exploratory Workshop EW05-105 "Mott's Physics in Nanowires and Quantum Dots", University of Cambridge, United Kingdom
(Planned) date of presentation: 2006-07-31 to 2006-08-02
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-06
• ID: 00944
Authors: F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Spin quantum transport in nanostructured semiconductors: qubit and Stern-Gerlach
(Planned) event: Workshop "Mathematical aspects of quantum transport in mesoscopic systems", Marseille (France),
(Planned) date of presentation: 2006-12-18 to 2006-12-19
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-06
• ID: 00943
Authors: J. Vanacken
Authors - SANDiE partners: P02 (KU Leuven)
Title: Invited lecture: The use of pulsed magnetic fields in solid state physics
(Planned) event: HUST, National Pulsed Field Laboratory, Wuhan (China)
(Planned) date of presentation: 2006-04
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-03
• ID: 00942
Authors: M. Hayne
Authors - SANDiE partners: P29 (Uni Lancaster)
Title: Nanophotonics Based on Self-assembled Semiconductor Nanostructures: SANDiE's Vision of the Future
(Planned) event: MONA-Symposium and Road-Mapping Workshop on 'Nanophotonics - Processes, Materials Devices', Grenoble, France
(Planned) date of presentation: 2006-11-28 to 2006-11-29
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-04-02
• ID: 00941
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Growth and nanoscale properties of semiconductor nanowires
(Planned) event: 24th Europ Conf on Surface Sci, Paris, France
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
• ID: 00940
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Self-assembly of nanowires using lithographic control of nucleation processes
(Planned) event: March Meet of the American Phys Soc, Baltimore, MD, USA
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
• ID: 00939
Authors: Wallenberg L R, L S Karlsson, K A Dick, W Seifert and L Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Nanowires in 3 dimensions
(Planned) event: 4th Annual Øresund Nanosci Symp, Copenhagen, Denmark
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30

- **ID:** 00938
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Epitaxially grown III-V nanowires for quantum device applications
(Planned) event: 53rd Intl Symp Amer Vacuum Soc, San Francisco, Ca, USA
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
- **ID:** 00937
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Materials, physics and device aspects of semiconductor nanowires
(Planned) event: Intl Workshop From Atomic Design to Device Appl, Schloß Ringberg, Germany
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
- **ID:** 00936
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Nanowires for realization of quantum structures and devices
(Planned) event: Nanoelectronic Days, Aachen, Germany
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
- **ID:** 00935
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Novel applications based on nanowires
(Planned) event: 32nd Intl Conf Micro- and Nano-Engineering, Barcelona, Spain
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
- **ID:** 00934
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Growth and characterization of single crystal semiconductor nanowires
(Planned) event: 19th Annual Meet of the IEEE Lasers and Electro-Optics Soc, Montreal, Canada
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
- **ID:** 00933
Authors: K. Deppert, S Ghatnekar-Nilsson, R Kullberg and L Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: A university curriculum in Engineering Nanoscience - the inverted-T strategy
(Planned) event: Intl Conf on Nanosci and Technol, Basel, Switzerland (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
- **ID:** 00932
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Top-down meets bottom-up in guided self-assembly of nanowire devices
(Planned) event: Gordon Res Conf on Nanostr Fabrication, Tilton, NH, USA (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
- **ID:** 00931
Authors: W. Seifert
Authors - SANDiE partners: P06 (Uni Lund)
Title: Growth-related aspects of nanowire fabrication
(Planned) event: 14th Intl Symp "Nanostructures: Physics and Technology", St Petersburg, Russia (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
- **ID:** 00930
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Lithographically aided self-assembly of nanowire devices
(Planned) event: Intl Conf on Nanosci and Technol, Basel, Switzerland (2006)

(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
• **ID:** 00929
Authors: W. Seifert
Authors - SANDiE partners: P06 (Uni Lund)
Title: Effects of growth mechanisms on shape and structural perfection of semiconductor nanowires
(Planned) event: 20th Conf on Crystal Growth and Epitaxy, Fallen Leaf Lake, CA, USA (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
• **ID:** 00928
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Semiconductor nanowires: from self-assembly to quantum devices
(Planned) event: 28th Intl Conf Physics Semiconductors, Vienna, Austria (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
• **ID:** 00927
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Nanowires for photonics and electronics
(Planned) event: E-MRS Spring Meet, Nice, France (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
• **ID:** 00926
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Nanowire technology for realization of novel devices
(Planned) event: Intl Congress Nanotechnology in Northern Europe, Helsinki, Finland (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
• **ID:** 00925
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Nanowires for electronics and photonics
(Planned) event: 30th Workshop on Comp Semicond Dev and Integr Circuits, Fiskebäckskil, Sweden (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
• **ID:** 00924
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Novel applications based on nanowires
(Planned) event: Intl Conf Micro- and Nano-Engineering, Barcelona, Spain (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
• **ID:** 00923
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Nanowire-based one-dimensional electronics
(Planned) event: 7th Intl Conf Trends in Nanotechnology, Grenoble, France (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
• **ID:** 00922
Authors: W. Seifert
Authors - SANDiE partners: P06 (Uni Lund)
Title: Growth-related aspects of nanowire fabrication
(Planned) event: 6th Intl Workshop on Epitaxial Semicond on Patterned Substrates and Novel Index Surf, Nottingham, UK (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30

- **ID:** 00921
Authors: W. Seifert
Authors - SANDiE partners: P06 (Uni Lund)
Title: Synthesis, characterization, and application of semiconductor nanowires
(Planned) event: 3rd Intl Symp on Ubiquitous Knowledge Network Environment, Sapporo, Japan (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
- **ID:** 00920
Authors: L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Nanowires as building blocks in quantum-based devices
(Planned) event: MRS Spring Meet, San Francisco, CA, USA (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
- **ID:** 00919
Authors: Peter Kratzer
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Binary and Ternary Transition-Metal Silicides as Novel Materials for Magnet-Semiconductor Heterostructures
(Planned) event: Workshop "Advances in Computational Materials Science", Rottach-Egern, Germany
(Planned) date of presentation: 2006-06-21 to 2006-06-24
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
- **ID:** 00918
Authors: Peter Kratzer
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Epitaxial Growth of Transition-Metal Silicides on Silicon
(Planned) event: Workshop on Computational Materials Theory, Bangalore, Indien
(Planned) date of presentation: 2006-07-13 to 2006-07-15
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
- **ID:** 00917
Authors: Peter Kratzer
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Thermodynamics and Kinetics of Quantum Dot Growth
(Planned) event: 28th International Symposium "Semiconductor Nanostructures", Berlin, Deutschland
(Planned) date of presentation: 2006-09-07 to 2006-09-08
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
- **ID:** 00916
Authors: Peter Kratzer
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Atomistic Theory of InAs/GaAs Quantum Dot Growth
(Planned) event: Workshop "Epitaxial Growth and Fundamental Properties of Semiconductor Nanostructures", Bonassola, Italien
(Planned) date of presentation: 2006-09-18 to 2006-09-22
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-30
- **ID:** 00915
Authors: Yuan Z. and Shields A. J.
Authors - SANDiE partners: P25 (Toshiba)
Title: Practical one-way quantum cryptographic system for telecom networks
(Planned) event: IEEE/LEOS Summer Topical Meeting on Quantum Communications in Telecom Networks, Quebec, Canada
(Planned) date of presentation: 2006-07
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-28
- **ID:** 00914
Authors: Shields A. J.
Authors - SANDiE partners: P25 (Toshiba)
Title: Triggered entangled photons from quantum dots
(Planned) event: International Conference on the Physics of Semiconductors (ICPS28) (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-28
- **ID:** 00913
Authors: Shields A. J.
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum Light Generation from Semiconductor Quantum Dots
(Planned) event: 8th International Conference on Quantum Communication, Measurement and Computing (QCMC06), Tsukuba

International Congress Centre, Tsukuba, Japan (2006)

(Planned) date of presentation: 2006

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-03-28

• **ID:** 00912

Authors: Szafran B, Bednarek S, Peeters FM

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Stark effect on the exciton spectra of vertically coupled quantum dots: Horizontal field orientation and nonaligned dots

(Planned) journal: PHYS REV B 75, 115303 (2007)

(Planned) date of publication: 2007-03-02

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-03-27

• **ID:** 00911

Authors: Szafran B, Bednarek S, Peeters FM

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Magnetic-field-induced binding of few-electron systems in shallow quantum dots

(Planned) journal: PHYS REV B 74 (11): art. no. 115310 SEP 2006

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-03-27

• **ID:** 00910

Authors: Peeters FM, Szafran B, Chwiej T, Bednarek S, Adamowski J

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Stability of charged exciton states in quantum wires

(Planned) journal: FEW-BODY SYST 38 (2-4): 121-124 JUN 2006

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-03-27

• **ID:** 00909

Authors: Stopa T, Szafran B, Tavernier MB, Peeters FM

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Dependence of the vortex structure in quantum dots on the range of the inter-electron interaction

(Planned) journal: PHYS REV B 73 (7): art. no. 075315 FEB 2006

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-03-27

• **ID:** 00908

Authors: Chwiej T, Bednarek S, Szafran B, J. Adamowski, Peeters FM

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Broken one-particle symmetry in few-electron coupled quantum dots

(Planned) journal: PHYS REV B 73 (7): art. no. 075422 FEB 2006

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-03-27

• **ID:** 00907

Authors: A. Matulis and F. M. Peeters

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Appearance of enhanced Weiss oscillations in graphene: Theory

(Planned) journal: Phys. Rev. B (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: accepted

Submitted to Network Office: 2007-03-27

• **ID:** 00906

Authors: E. Anisimovas and F. M. Peeters,

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Multiply charged excitons in vertically coupled quantum dots

(Planned) journal: Phys. Rev. B 74, 245326 (2006)

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-03-27

• **ID:** 00905

Authors: M. B. Tavernier, E. Anisimovas and F. M. Peeters

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Ground state and vortex structure of the $N = 5$ and $N = 6$ electron quantum dot

(Planned) journal: Phys. Rev. B 74, 125305 (2006)

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-03-27

- **ID:** 00904
Authors: Sergio I Molina
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: SEMICONDUCTOR NANOSTRUCTURES STUDIED BY HIGH-RESOLUTION TEM/STEM
(Planned) event: conference in MPI-Halle
(Planned) date of presentation: 2007-03-22
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-22
- **ID:** 00903
Authors: D. Walker, F. Pulizzi, A. Patane, L. Eaves, D. Granados, J.M. Garcia, M. Henini, V.V. Rudenkov, P.C.M. Christianen, J.C. Maan, P. Offermans, P.M. Koenraad, G. Hill
Authors - SANDiE partners: P07 (TU Eindhoven), P09 (Uni Nottingham), P22 (CSIC Madrid), P08 (Uni Sheffield)
Title: Magnetotunneling spectroscopy of ring-shaped (InGa)As quantum dots: Evidence of excited states with 2p(z) character
(Planned) journal: Physica E 32, 57 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-18
- **ID:** 00902
Authors: Cornet, A. Schliwa, J. Even, F. Dore, C. Celebi, A. Letoublon, E. Mace, C. Paranthoen, A. Simon, P.M. Koenraad, N. Bertru, D. Bimberg, S. Loualiche
Authors - SANDiE partners: P07 (TU Eindhoven), P12 (INSA LENS), P04 (TU Berlin)
Title: Electronic and optical properties of InAs/InP quantum dots on InP(100) and InP(311)B substrates: Theory and experiment
(Planned) journal: Phys. Rev. B 74, 035312 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-18
- **ID:** 00901
Authors: C. Çelebi, J. M. Ulloa, P. M. Koenraad, A. Simon, A. Letoublon, and N. Bertru
Authors - SANDiE partners: P07 (TU Eindhoven), P12 (INSA LENS)
Title: Capping of InAs quantum dots grown on (311)B InP studied by cross-sectional scanning tunneling microscopy
(Planned) journal: Appl. Phys. Lett. 89, 023119 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-18
- **ID:** 00900
Authors: A. M. Yakunin, A. Yu. Silov, P. M. Koenraad, J.-M. Tang, M. E. Flatté, W. V. Roy, J. D. Boeck, and J. H. Wolter
Authors - SANDiE partners: P07 (TU Eindhoven)
Title: Spatial Structure of Mn-Mn Acceptor Pairs in GaAs
(Planned) journal: Phys. Rev. Lett. 95, 256402 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-18
- **ID:** 00899
Authors: B. D. Gerardot, S. Seidl, P. A. Dalgarno, R. J. Warburton, D. Granados, J. M. Garcia, K. Kowalik, O. Krebs, K. Karrai, A. Badolato, P. M. Petroff
Authors - SANDiE partners: P10 (Heriot-Watt), P11 (CNRS, Marcoussis), P22 (CSIC, Madrid) and A01 (Warsaw)
Title: Manipulating exciton fine structure in quantum dots with a lateral electric field
(Planned) journal: Appl. Phys. Lett. 90, 041101 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-12
- **ID:** 00898
Authors: M. Ediger, G. Bester, B. D. Gerardot, A. Badolato, P. M. Petroff, K. Karrai, A. Zunger, and R. J. Warburton
Authors - SANDiE partners: P10 (Heriot-Watt)
Title: Fine structure of negatively and positively charged excitons in semiconductor quantum dots: electron-hole asymmetry
(Planned) journal: Phys. Rev. Lett. 98, 036808 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-12
- **ID:** 00897
Authors: B. Alen, A. Hoge, M. Kroner, S. Seidl, K. Karrai, R. J. Warburton, A. Badolato, G. Medeiros-Ribeiro, P. M. Petroff
Authors - SANDiE partners: P10 (Heriot-Watt), P16 (Valencia)
Title: Absorptive and dispersive optical responses of excitons in a single quantum dot
(Planned) journal: Appl. Phys. Lett. 89, 123124 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-12
- **ID:** 00896
Authors: P. A. Dalgarno, J. McFarlane, B. D. Gerardot, R. J. Warburton, K. Karrai, A. Badolato, and P. M. Petroff

Authors - SANDiE partners: P10 (Heriot-Watt)
Title: Decay dynamics of the positively charged exciton in a single charge tunable self-assembled quantum dot
(Planned) journal: Appl. Phys. Lett. 89, 043107 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-12
 • **ID:** 00895
Authors: M. Kroner, A. Hogeleg, S. Seidl, R. J. Warburton, B. D. Gerardot, A. Badolato, P. M. Petroff, and K. Karrai
Authors - SANDiE partners: P10 (Heriot-Watt)
Title: Voltage-controlled linewidth of excitonic transitions in a single self-assembled quantum dot
(Planned) journal: Physica E 32, 61 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-12
 • **ID:** 00894
Authors: S. Seidl, A. Hogeleg, M. Kroner, K. Karrai, A. Badolato, P. M. Petroff, and R. J. Warburton
Authors - SANDiE partners: P10 (Heriot-Watt)
Title: Tuning the cross-gap transition energy of a quantum dot by uniaxial stress
(Planned) journal: Physica E 32, 14 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-12
 • **ID:** 00893
Authors: P. A. Dalgarno, J. M. Smith, B. D. Gerardot, A. O. Govorov, K. Karrai, P. M. Petroff, and R. J. Warburton
Authors - SANDiE partners: P10 (Heriot-Watt)
Title: Dark exciton decay dynamics of a semiconductor quantum dot
(Planned) journal: Phys. Stat. Sol. (a) 202, 2591 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-12
 • **ID:** 00892
Authors: R. Songmuang, N. Y. Jin-Phillipp, S. Mendach, and O. G. Schmidt
Authors - SANDiE partners: P23 (MPI Stuttgart)
Title: Single rolled-up SiGe/Si microtubes: Structure and thermal stability
(Planned) journal: Applied Physics Letters 88, 021913 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
 • **ID:** 00891
Authors: N. Y. Jin-Phillipp, J. Thomas, M. Kelsch, Ch. Deneke, R. Songmuang, and O. G. Schmidt
Authors - SANDiE partners: P23 (MPI Stuttgart)
Title: Electron microscopy study on structure of rolled-up semiconductor nanotubes
(Planned) journal: Applied Physics Letters 88, 033113 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
 • **ID:** 00890
Authors: S. Kiravittaya, A. Rastelli, and O. G. Schmidt
Authors - SANDiE partners: P23 (MPI Stuttgart)
Title: Photoluminescence from seeded three dimensional InAs/GaAs quantum-dot crystals
(Planned) journal: Applied Physics Letters 88, 043112 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
 • **ID:** 00889
Authors: S. Mendach, R. Songmuang, S. Kiravittaya, A. Rastelli, M. Benyoucef, and O. G. Schmidt
Authors - SANDiE partners: P23 (MPI Stuttgart)
Title: Light emission and wave guiding of quantum dots in a tube
(Planned) journal: Applied Physics Letters 88, 111120 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
 • **ID:** 00888
Authors: A. Rastelli, S. Kiravittaya, L. Wang, C. Bauer, and O. G. Schmidt
Authors - SANDiE partners: P23 (MPI Stuttgart)
Title: Micro-photoluminescence spectroscopy of hierarchically self-assembled quantum dots
(Planned) journal: Physica E 32, 29 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2007-02-27
• **ID:** 00887
Authors: B. Krause, C. Mocuta, T. H. Metzger, Ch. Deneke and O. G. Schmidt
Authors - SANDiE partners: P23 (MPI Stuttgart)
Title: Local structure of a rolled-up single crystal: An X-ray microdiffraction study of individual semiconductor nanotubes
(Planned) journal: Physical Review Letters 96, 165502 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
• **ID:** 00886
Authors: S. Kiravittaya, R. Songmuang, A. Rastelli, H. Heidemeyer, and O. G. Schmidt
Authors - SANDiE partners: P23 (MPI Stuttgart)
Title: Multi-scale ordering in self-assembled InAs/GaAs(001) quantum dots
(Planned) journal: Nanoscale Research Letters 1, 1 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
• **ID:** 00885
Authors: Ch. Deneke and O. G. Schmidt
Authors - SANDiE partners: P23 (MPI Stuttgart)
Title: Structural characterization and potential x-ray waveguiding of a small rolled-up nanotube with a large number of windings
(Planned) journal: Applied Physics Letters 89, 123121 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
• **ID:** 00884
Authors: M. Benyoucef, A. Rastelli, O. G. Schmidt, S. M. Ulrich and P. Michler
Authors - SANDiE partners: P23 (MPI Stuttgart)
Title: Temperature dependent optical properties of single, hierarchically self-assembled GaAs/AlGaAs quantum dots
(Planned) journal: Nanoscale Research Letters 1, 172 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
• **ID:** 00883
Authors: M. Stoffel, A. Rastelli, T. Merdzhanova, G. S. Kar, and O. G. Schmidt
Authors - SANDiE partners: P23 (MPI Stuttgart)
Title: Morphological evolution and lateral ordering of uniform SiGe/Si(001) islands
(Planned) journal: Microelectronics Journal 37, 1528 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
• **ID:** 00882
Authors: S. Kiravittaya, A. Rastelli, and O. G. Schmidt
Authors - SANDiE partners: P23 (MPI Stuttgart)
Title: Morphology and photoluminescence of seeded three-dimensional InAs/GaAs(001) quantum-dot crystals
(Planned) journal: physica status solidi (c) 3, 3668 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
• **ID:** 00881
Authors: R. Songmuang, Ch. Deneke, and O. G. Schmidt
Authors - SANDiE partners: P23 (MPI Stuttgart)
Title: Rolled-up micro- and nanotubes from single material thin films
(Planned) journal: Applied Physics Letters 89, 223109 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
• **ID:** 00880
Authors: D. J. Thurmer, Ch. Deneke, Y. Mei, and O. G. Schmidt
Authors - SANDiE partners: P23 (MPI Stuttgart)
Title: Process integration of microtubes for fluidic applications
(Planned) journal: Applied Physics Letters 89, 223507 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
• **ID:** 00879
Authors: S. Kiravittaya, M. Benyoucef, R. Zapf-Gottwick, A. Rastelli, and O. G. Schmidt
Authors - SANDiE partners: P23 (MPI Stuttgart)

Title: Ordered GaAs quantum dot arrays on GaAs(001): Single photon emission and fine structure splitting
(Planned) journal: Applied Physics Letters 89, 233102 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
• ID: 00878
Authors: Ch. Deneke, U. Zschieschang, H. Klauk, and O. G. Schmidt
Authors - SANDiE partners: P23 (MPI Stuttgart)
Title: InGaAs/GaAs/alkanethiolate radial superlattices
(Planned) journal: Applied Physics Letters 89, 263110 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
• ID: 00877
Authors: N. Shaji, H. Qin, R. H. Blick, L. J. Klein, Ch. Deneke and O. G. Schmidt
Authors - SANDiE partners: P23 (MPI Stuttgart)
Title: Magnetotransport through two-dimensional electron gas in a tubular geometry
(Planned) journal: Applied Physics Letters 90, 042101 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
• ID: 00876
Authors: D. J. P. Ellis, R. M. Stevenson, R. J. Young, A. J. Shields, P. Atkinson and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Control of fine-structure splitting of individual InAs quantum dots by rapid thermal annealing
(Planned) journal: Appl. Phys. Lett., 90, 011907 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-05
• ID: 00875
Authors: M. B. Ward, T. Farrow, P. See, Z. L. Yuan, O. Z. Karimov, P. Atkinson, K. Cooper and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Electrically driven telecommunication wavelength single-photon source
(Planned) journal: Appl. Phys. Lett., 90, 063512 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-05
• ID: 00874
Authors: D. Gevaux, P. Atkinson, D. Anderson, A. J. Bennett, S. P. Bremner, J. Griffiths, D. J. P. Ellis, R. M. Stevenson, G. A. C. Jones, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Controlling spontaneous emission from quantum dots using photonic crystal microcavities
(Planned) journal: Physica Status Solidi, 11, 3676-3679 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-05
• ID: 00873
Authors: R. M. Stevenson, R. J. Young, P. Atkinson, K. Cooper, D. A. Ritchie and A. J. Shields,
Authors - SANDiE partners: P25 (Toshiba)
Title: Entangled photon pairs from a quantum dot source
(Planned) journal: Physica Status Solidi, 11, 3697-3701 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-05
• ID: 00872
Authors: R. M. Stevenson, R. J. Young, P. Atkinson, K. Cooper, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Control of Exciton fine structure splitting in quantum dots
(Planned) journal: ACTA PHYSICA POLONICA A, 110, 311–318 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-05
• ID: 00871
Authors: P. See, M. B. Ward, O. Z. Karimov, Z. Yuan, A. J. Shields, T. Farrow, P. Atkinson and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: An electrically driven microcavity single photon source
(Planned) journal: Quantum Dots, Particles, and Nanoclusters III, Proceedings of SPIE, 6129, 61290M (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2007-03-05
• ID: 00870
Authors: B. E. Kardynal, A. J. Shields, I. Farrer, K. Cooper and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Single electron dynamics in a quantum dot field effect transistor
(Planned) journal: Appl. Phys. Lett., 89, 1135503 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-05
• ID: 00869
Authors: S. S. Hees, B. E. Kardynal, P. See, A. J. Shields, I. Farrer and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Effect of InAs dots on noise of quantum dot resonant tunneling single-photon detectors
(Planned) journal: Appl. Phys. Lett., 89, 153510 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-05
• ID: 00868
Authors: A. J. Bennett, P. Atkinson, P. See, M. B. Ward, R. M. Stevenson, Z. L. Yuan, D. C. Unitt, D. J. P. Ellis, K. Cooper, D. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Single-photon-emitting diodes: a review
(Planned) journal: Physica Status Solidi B, 243 No 14, 3730–3740 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-05
• ID: 00867
Authors: P. Atkinson, M. B. Ward, S. P. Bremner, D. Anderson, T. Farrow, G. A. C. Jones, A. J. Shields and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Site control of InAs quantum dot nucleation by ex situ electron-beam lithographic patterning of GaAs substrates
(Planned) journal: Physica E, 32, 21–24 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-05
• ID: 00866
Authors: A. J. Shields, R. M. Stevenson, R. J. Young, A. J. Bennett, M. B. Ward, D. J. Ellis, T. Farrow, P. Atkinson and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum Photonics for Novel Applications in IT
(Planned) event: Nano-tech Japan, Tokyo, Japan (2007)
(Planned) date of presentation:
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-05
• ID: 00865
Authors: R. M. Stevenson, R. J. Young, P. Atkinson, K. Cooper, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Generating triggered entangled photons with quantum dots
(Planned) event: Quantum Dot One Day Meeting, Nottingham University, United Kingdom (2007).
(Planned) date of presentation: 2007-01-19
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-05
• ID: 00864
Authors: R. J. Young, A. J. Shields, R. M. Stevenson, A. J. Bennett, D. J. Ellis, P. Atkinson, D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum Light Generation with a Semiconductor Quantum Dot
(Planned) event: Photonics West 2007, San Jose, USA (2007)
(Planned) date of presentation: 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-05
• ID: 00863
Authors: A. J. Shields, R. M. Stevenson, R. J. Young, P. Atkinson, K. Cooper and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: A Semiconductor Device for Generating Pairs of Entangled Photons
(Planned) event: 8th International Conference on Quantum Communication, Measurement and Computing (QCMC06), Tsukuba International Congress Centre, Tsukuba, Japan (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-05

- **ID:** 00862
Authors: A. J. Shields, R. J. Young, R. M. Stevenson, A. J. Bennett, M. Warol, D. Ellis, P. Atkinson, K. Cooper and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Triggered Single Photons and Entangled Photon Pairs from Quantum Dots
(Planned) event: Quantum Optics in Semiconductor Nanostructures, University of Wuerzburg.(2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-05
- **ID:** 00861
Authors: Z. Yuan, C. Gobby, M. B. Ward, P. See, O. Z. Karimov, A. J. Bennett, J. Blakesley, B. E. Kardynal, H. Li, R. M. Stevenson, P. Atkinson K. Cooper, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum Cryptographic System and Single Photon Technologies for Open Fibre Networks
(Planned) event: Towards Quantum Standards: a Workshop on Quantum Information Technology, The Royal Society, London (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-05
- **ID:** 00860
Authors: Z. Yuan, M. Ward, O. Karimov, P. See, A. J. Bennett and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum Cryptographic System and Single Photon Source for Optical Fibre Networking
(Planned) event: Presented at the Quantum Cryptography & Secure Communication for Business Conference, IEEE, London, UK (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-05
- **ID:** 00859
Authors: R. J. Young, R. M. Stevenson, P. Atkinson, K. Cooper, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Generating triggered entangled photons with a semiconductor source
(Planned) event: NATO Workshop 'Quantum Communications and Security', GDANSK, Poland (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-05
- **ID:** 00858
Authors: R. J. Young, R. M. Stevenson, P. Atkinson, K. Cooper, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Entangled photons from quantum dots
(Planned) event: PLMCN6 The Sixth International Conference on Physics of Light-Matter Coupling in Nanostructure, Magdenburg, Germany (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-05
- **ID:** 00857
Authors: A. J. Shields, R. M. Stevenson, R. J. Young, A. J. Bennett, D. Unitt, P. Atkinson, K. Cooper and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Single Photon Effects in Quantum Dots
(Planned) event: International Conference on the Physics of Semiconductors (ICPS28) (2006)
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-05
- **ID:** 00856
Authors: B. E. Kardynal, S. S. Hees, A. J. Shields, I. Farrer and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Single Photon Detectors based on Quantum Dot Devices
(Planned) event: International Conference on Solid State Devices and Materials 2006, Yokohama, Japan
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-03-05
- **ID:** 00855
Authors: D.-Y. Cong, A. Martinez, K. Merghem, A. Lemaitre, A. Ramdane, J.-G. Provost, O. Le Gouezigou, M. Fischer, I. Krestnikov, A. Kovsh
Authors - SANDiE partners: P11 (LPN-CNRS), P28 (NL Nanosemiconductor)
Title: Microwave Properties of High Modal Gain Quantum Dot InAs/GaAs Fabry-Pérot Lasers Emitting at 1.3 μm
(Planned) journal: European Conference and Exhibition on Optical Communication, 24-28 September 2006, Cannes, paper We3.P.73.
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-02
- **ID:** 00854
Authors: S. Azouigui, B. Dagens, F. Lelarge, J.G. Provost, A. Accard, F. Grillot, A. Martinez, Q. Zou, A. Ramdane

Authors - SANDiE partners: P11 (LPN-CNRS), P12 (INSA-LENS)
Title: Tolerance to optical feedback of 10 Gbps quantum-dash based lasers emitting at 1.55 μm
(Planned) journal: IEEE Photonics Technology Letters 2007
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2007-03-02
 • **ID:** 00853

Authors: S. Azouigui, B. Dagens, F. Lelarge, J.G. Provost, A. Accard, F. Grillot, A. Martinez, Q. Zou, A. Ramdane
Authors - SANDiE partners: P11 (LPN-CNRS), P12 (INSA-LENS)
Title: Tolerance to optical feedback of 10 Gbps quantum-dash based lasers emitting at 1.55 μm
(Planned) journal: Optical Fiber Communication Conference 2007, Anaheim, 25-29 March 2007, paper 1011, presentation JWA29
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-03-02
 • **ID:** 00852

Authors: G. Moreau, A. Martinez, K. Merghem, A. Miard, A. Lemaître, P. Voisin, A. Ramdane
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: InGaAs/GaAs QD-based 100 nm Bandwidth Electro Optic Modulator for 1.55 μm Applications
(Planned) journal: CLEO/QELS 2007 in Baltimore, Maryland, Baltimore Convention Center from May 6-11, 2007, paper CTuU5
(Planned) date of publication: 2007-05-06 to 2007-05-06
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-03-02
 • **ID:** 00851

Authors: K. Merghem, C. Gosset, A. Martinez, G. Moreau, F. Lelarge, G. Aubin, A. Ramdane
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Effect of spectrum filtering on the performances of Quantum-Dash mode-locked lasers emitting at 1.55 μm
(Planned) event: European Conference on Lasers and Electro-Optics and the International Quantum Electronics Conference
(Planned) date of presentation: 2007-06-17 to 2007-06-22
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2007-03-02
 • **ID:** 00850

Authors: G. Moreau, A. Martinez, K. Merghem, A. Miard, A. Lemaître, P. Voisin, F. Lelarge and A. Ramdane
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Quantum dot based electro-optic modulators for 1.55 μm applications
(Planned) event: Sixth International Conference on Low Dimensional Structures and Devices, to be held in the Caribbean Archipelago of San Andres, Colombia
(Planned) date of presentation: 2007-04-15 to 2007-04-20
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-03-02
 • **ID:** 00849

Authors: S. Bouchoule, S. Azouigui, G. Patriarche, S. Guilet, L. Le Gratiot, A. Martinez, F. Lelarge, A. Ramdane
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Processing of InP-based shallow ridge laser waveguides using an HBr ICP Plasma
(Planned) journal: 19th International Conference on Indium Phosphide and Related Materials Conference Proceedings, 2006, 14-18 May 2007, Matsue, Japan, paper N°5108
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: accepted
Submitted to Network Office: 2007-03-02
 • **ID:** 00848

Authors: G. Moreau, A. Martinez, K. Merghem, S. Guilet, S. Bouchoule, G. Patriarche, F. Lelarge, P. Voisin and A. Ramdane
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: INAS/INP QUANTUM DASH BASED ELECTRO OPTIC MODULATOR WITH OVER 70 NM BANDWIDTH AT 1.55 μm
(Planned) journal: 19th International Conference on Indium Phosphide and Related Materials Conference Proceedings, 2006, 14-18 May 2007, Matsue, Japan, paper N°5090
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: accepted
Submitted to Network Office: 2007-03-02
 • **ID:** 00847

Authors: S. Azouigui, B. Dagens, F. Lelarge, J.G. Provost, A. Accard, F. Grillot, A. Martinez, Q. Zou, A. Ramdane
Authors - SANDiE partners: P11 (LPN-CNRS), P12 (INSA-LENS)
Title: InAs/InP quantum-dash based lasers for 10 Gbps isolator-free operation at 1.55 μm
(Planned) journal: 19th International Conference on Indium Phosphide and Related Materials Conference Proceedings, 2006, 14-18 May 2007, Matsue, Japan, paper N°5011
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-03-02
 • **ID:** 00846

Authors: D.-Y. Cong, A. Martinez, K. Merghem, G. Moreau, A. Lemaître, J.-G. Provost, O. Le Gouezigou, M. Fischer, I. Krestnikov, A.R. Kovsh and A. Ramdane

Authors - SANDiE partners: P11 (LPN-CNRS), P28 (NL Nanosemiconductor)
Title: Optimisation of α -factor for quantum dot InAs/GaAs Fabry-Perot lasers emitting at 1.3 μm
(Planned) journal: Electronics Letters, Volume 43, Issue 4, February 15th, 2007 Page(s):222 – 223
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-02
• **ID:** 00845
Authors: G. Moreau, A. Martinez, D.-Y. Cong, K. Merghem, A. Miard, A. Lemaitre, P. Voisin and A. Ramdane
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: InGaAs/GaAs QD-based electro-optic modulator with over 100nm bandwidth at 1.55 μm
(Planned) journal: Electronics Letters Volume 43, Issue 2, January 18, 2007 Page(s):125 – 127
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-02
• **ID:** 00844
Authors: A. Martinez, G. Moreau, K. Merghem, G. Aubin, A. Ramdane, J.-G. Provost, B. Dagens and F. Lelarge
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Static and Dynamic Evaluation of the Henry factor of 6- and 9-Quantum-Dash-Layer Single-Mode Lasers Emitting at 1.55 μm on InP
(Planned) journal: Appl. Phys. Lett 2007
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2007-03-02
• **ID:** 00843
Authors: G. Moreau, S. Azouigui, D.-Y. Cong, K. Merghem, A. Martinez, G. Patriarche, A. Ramdane, F. Lelarge, B. Rousseau, B. Dagens, F. Poingt, A. Accard, and F. Pommereau
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Effect of layer stacking and p-type doping on the performance of InAs/InP quantum-dash-in-a-well lasers emitting at 1.55 μm
(Planned) journal: APPLIED PHYSICS LETTERS 89, 241123 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-02
• **ID:** 00842
Authors: C. Gosset, K. Merghem, A. Martinez, G. Moreau, G. Patriarche, G. Aubin, A. Ramdane, J. Landreau, F. Lelarge
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Subpicosecond pulse generation at 134 GHz using a quantum-dash-based Fabry-Perot laser emitting at 1.56 μm
(Planned) journal: APPLIED PHYSICS LETTERS 88, 241105 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-03-02
• **ID:** 00841
Authors: Oliver Picht, Werner Wesch, Johannes Biskupek, Ute Kaiser, M. Kawasaki, Márcio A. Oliveira, A. Neves, N.A. Sobolev
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Ion beam synthesis of Mn/As-based clusters in silicon
(Planned) event: 15th International Conference on Ion Beam Modification of Materials (Taormina)
(Planned) date of presentation: 2006-09-18 to 2006-09-22
Research paper in international journal? (y/n): n
Status: poster presented
Submitted to Network Office: 2007-02-28
• **ID:** 00840
Authors: O. Picht, W. Wesch, J. Biskupek, U. Kaiser, M.A. Oliveira, A. Neves, N.A. Sobolev
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Ion beam synthesis of Mn/As-based clusters in silicon
(Planned) journal: Nuclear Instruments and Methods B, Vol. 257 (2007) 90
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-28
• **ID:** 00839
Authors: E. Hilner, A. Mikkelsen, E. Lundgren, H. Yi, P. Kratzer
Authors - SANDiE partners: P06 (Uni Lund), P27 (FHI Berlin)
Title: Atomic Scale Structure and Diffusion of Au on the GaAs(111) Surface for Nanowire Growth
(Planned) event: ICN+T 2006 Basel
(Planned) date of presentation: 2006-08-02
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-02-28
• **ID:** 00838
Authors: Thelander C, P Agarwal, S Brongersma, J Eymery, L F Feiner, A Forchel, M Scheffler, W Riess, B J Ohlsson, U Gösele and L Samuelson
Authors - SANDiE partners: P06 (Uni Lund), P05 (Halle), P27 (FHI)
Title: Nanowire-based one-dimensional electronics
(Planned) event: Materials Today 9, Oct, 28-35 (2006), invited review

(Planned) date of presentation: 2006
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-02-28
• **ID:** 00837
Authors: L. Ouattara, J. M. Ulloa, A. Mikkelsen, E. Lundgren, P. M. Koenraad, M. Borgstrom, L. Samuelson, W. Seifert
Authors - SANDiE partners: P06 (Uni Lund), P07 (TU Eindhoven)
Title: Correlation lengths in stacked InAs quantum dot systems studied by cross-sectional STM
(Planned) journal: Nanotechnology 18, 145403 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-28
• **ID:** 00836
Authors: Mikkelsen A, N Sköld, L Ouattara and E Lundgren
Authors - SANDiE partners: P06 (Uni Lund)
Title: Nanowire growth and dopants studied by cross-sectional scanning tunneling microscopy
(Planned) journal: Nanotechnol 17, S3362-S368 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-02-28
• **ID:** 00835
Authors: Johansson J, L S Karlsson, C P T Svensson, T Mårtensson, B A Wacaser, K Deppert, L Samuelson and W Seifert
Authors - SANDiE partners: P06 (Uni Lund)
Title: Structural properties of (111)B-oriented III-V nanowires
(Planned) journal: Nature Mat 5, 574-580 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-02-28
• **ID:** 00834
Authors: Ellström C, J Trägårdh, L Samuelson, W Seifert, M-E Pistol, S Lemesko and C Pryor
Authors - SANDiE partners: P06 (Uni Lund)
Title: Investigations of InAs surface dots on InP
(Planned) journal: Appl Phys Lett 89, 033111 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-02-28
• **ID:** 00833
Authors: Sköld N, J B Wagner, G Karlsson, T Hernán, W Seifert, M-E Pistol and L Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Phase segregation in AlInP shells on GaAs nanowires
(Planned) journal: Nano Lett 6, 2743-2747 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-02-28
• **ID:** 00832
Authors: A.O. Ankiewicz, W. Gehlhoff, A.S. Pereira, S. Pereira, A. Hoffmann, M. Grundmann, M.C. Carmo, T. Trindade, N.A. Sobolev
Authors - SANDiE partners: P01 (Uni Leipzig), P04 (TU Berlin), P15 (Uni Aveiro)
Title: EPR and Structural Characterization of Mn-Doped Colloidal ZnO Quantum Dots
(Planned) event: International School on Structural Characterization of Nanostructures (Aveiro)
(Planned) date of presentation: 2007-01-25 to 2007-01-27
Research paper in international journal? (y/n): y
Status: poster presented
Submitted to Network Office: 2007-02-27
• **ID:** 00831
Authors: N.M. Santos, N.A. Sobolev, J.P. Leitão, M.C. Carmo, D. Fuster, L. González, Y. González, W. Wesch
Authors - SANDiE partners: P15 (Uni Aveiro), P22 (CSIC, Madrid)
Title: Influence of proton irradiation on the photoluminescence of InAs/InP quantum wires
(Planned) event: International School on Structural Characterization of Nanostructures (Aveiro)
(Planned) date of presentation: 2007-01-25 to 2007-01-27
Research paper in international journal? (y/n): n
Status: poster presented
Submitted to Network Office: 2007-02-27
• **ID:** 00830
Authors: A.F. Zinoveva, A.V. Dvurechenskii, N.P. Stepina, A.S. Deryabin, A.I. Nikiforov, R. Rubinger, N.A. Sobolev, J.P. Leitão, M.C. Carmo
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: EPR of electrons localized on Ge/Si quantum dots
(Planned) event: International School on Structural Characterization of Nanostructures (Aveiro)
(Planned) date of presentation: 2007-01-25 to 2007-01-27
Research paper in international journal? (y/n): n
Status: poster presented
Submitted to Network Office: 2007-02-27

- **ID:** 00829
Authors: A. Fonseca, E. Alves, N. Franco, J.P. Leitão, N.A. Sobolev, M.C. Carmo
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Influence of radiation defects on structural properties of Ge/Si islands
(Planned) event: International School on Structural Characterization of Nanostructures (Aveiro)
(Planned) date of presentation: 2007-01-25 to 2007-01-27
Research paper in international journal? (y/n): n
Status: poster presented
Submitted to Network Office: 2007-02-27
- **ID:** 00828
Authors: A.I. Nikiforov, V.V. Ulyanov, S.A. Teys, A.K. Gutakovsky, O.P. Pchelyakov, A.I. Yakimov, A. Fonseca, J.P. Leitão, N.A. Sobolev
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: MBE growth of vertically ordered Ge quantum dots on Si
(Planned) journal: phys. stat. sol. (c), Vol. 4 (2007) 262
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
- **ID:** 00827
Authors: M.A. RUIZ-CASTILLO, A. SEGURA, J.A. SANS, J. MARTINEZ-PASTOR, D. FUSTER, Y. GONZALEZ & L. GONZALEZ
Authors - SANDiE partners: P16 (Uni Valencia), P22 (CSIC-Madrid)
Title: Pressure dependence of photoluminescence of InAs/InP self-assembled quantum wires
(Planned) journal: Phys. Stat. Solidi (b) 244, 59-64 (2007)
(Planned) date of publication: 2006-11
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
- **ID:** 00826
Authors: D. FUSTER, B. ALÉN, L. GONZÁLEZ, Y. GONZÁLEZ & J. MARTÍNEZ-PASTOR
Authors - SANDiE partners: P16 (Uni Valencia), P22 (CSIC-Madrid)
Title: Initial stages of self-assembled InAs/InP(001) quantum wire formation
(Planned) journal: J. Cryst. Growth
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-02-27
- **ID:** 00825
Authors: D. FUSTER, B. ALÉN, L. GONZÁLEZ, Y. GONZÁLEZ, J. MARTÍNEZ-PASTOR, M.U. GONZÁLEZ & J. M. GARCÍA
Authors - SANDiE partners: P16 (Uni Valencia), P22 (CSIC-Madrid)
Title: Isolated self-assembled InAs/InP(001) quantum wires obtained by controlling the growth front evolution
(Planned) journal: Nanotechnology 18, 035604-1/-6 (2007)
(Planned) date of publication: 2007-01
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
- **ID:** 00824
Authors: W. OUERGHUI, J. MARTINEZ-PASTOR, J. GOMIS, M.A. MAAREF, D. GRANADOS & J. M. GARCIA
Authors - SANDiE partners: P16 (Uni Valencia), P22 (CSIC-Madrid)
Title: Lateral carrier tunnelling in vertically stacked In (Ga)As/GaAs quantum rings
(Planned) journal: Eur. Phys. J. B 54, 217-223 (2006)
(Planned) date of publication: 2006-12
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
- **ID:** 00823
Authors: J. GOMIS, J. MARTÍNEZ-PASTOR, B. ALÉN, D. GRANADOS, J. M. GARCÍA & Ph. ROUSSIGNOL
Authors - SANDiE partners: P16 (Uni Valencia), P22 (CSIC-Madrid)
Title: Interpretation of exciton dynamics in different shape InAs/GaAs nanostructures by microstate theory
(Planned) journal: Eur. Phys. J. B 54, 471-477 (2006)
(Planned) date of publication: 2007-02
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
- **ID:** 00822
Authors: D. FUSTER, J. MARTÍNEZ-PASTOR, L. GONZÁLEZ & Y. GONZÁLEZ
Authors - SANDiE partners: P16 (Uni Valencia), P22 (CSIC-Madrid)
Title: Different regimes of electronic coupling and their influence on exciton recombination in vertically stacked InAs/InP quantum wires
(Planned) journal: J. Phys. D: Appl. Phys. 39, 4940-4947 (2006)
(Planned) date of publication: 2006-11
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-27
- **ID:** 00820
Authors: P.Carrington, A. Krier, Q. Zhuang, R. Jones, Y. Min, M. Hayne and A.Hammiche
Authors - SANDiE partners: P29 (Uni Lancaster)
Title: Quantum dot nanostructures for mid-infrared applications

(Planned) event: QD meeting in Nottingham
(Planned) date of presentation: 2007-01-19
Research paper in international journal? (y/n): n
Status: poster presented
Submitted to Network Office: 2007-02-26

- **ID:** 00819

Authors: S. Godefroo, B. Bansal, M. Hayne, V.V. Moshchalkov and G. Medeiros-Riberio
Authors - SANDiE partners: P02 (KU Leuven), P29 (Uni Lancaster)
Title: Optical tuning of exciton properties in type-II InP/GaAs quantum dots
(Planned) event: QD meeting in Nottingham
(Planned) date of presentation: 2007-01-19
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-02-26

- **ID:** 00818

Authors: F. Germini and C. Bocchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Study of InAs/GaAs stacked quantum dots by high resolution x-ray diffraction techniques
(Planned) book: Beam injection based nanocharacterization of advanced materials, G. Salviati, T. Sekiguchi. S. Heun, A. Gustafsson eds., Research Signpost, (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-02-25

- **ID:** 00817

Authors: L. Seravalli , G. Trevisi , M. Minelli , P. Frigeri , S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Engineering of quantum dot nanostructures for photonic devices
(Planned) book: Handbook of Self-Assembled Semiconductors Nanostructures Novel Devices in Photonics and Electronics, M Henini ed., Elsevier, (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): n
Status: in press
Submitted to Network Office: 2007-02-25

- **ID:** 00816

Authors: L. Seravalli , G. Trevisi , M. Minelli , P. Frigeri , S. Franchi, M. Geddo, G. Guizzetti, M. Patrini, T. Ciabattoni
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Engineering of quantum dot structures for light emission in the spectral windows of photonic interest
(Planned) book: Highlights on Spectroscopies of Semiconductors and Nanostructures, G Guizzetti ed., SIF, (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-02-25

- **ID:** 00815

Authors: L. Seravalli, P. Frigeri, V. Avanzini and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: InAs/InGaAs nanostructures emitting at 1.50 μm obtained by a combined approach of quantum dot strain engineering and barrier enhancing
(Planned) event: 14th European MBE Workshop
(Planned) date of presentation: 2007-03-05 to 2007-03-07
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-02-25

- **ID:** 00814

Authors: G. Trevisi, P. Frigeri, M. Minelli, P. Allegri, V. Avanzini and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Optical and Morphological Properties of InAs and $\text{In}_{0.5}\text{Ga}_{0.5}\text{As}$ Self-Assembled Quantum Dots Embedded in AlGaAs Confining Layers
(Planned) event: 14th European MBE Workshop
(Planned) date of presentation: 2007-03-05 to 2007-03-07
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2007-02-25

- **ID:** 00813

Authors: V. Bellani, C. Bocchi, T. Ciabattoni, S. Franchi, P. Frigeri, P. Galinetto, M. Geddo, F. Germini, G. Guizzetti, L. Nasi, M. Patrini, L. Seravalli and G. Trevisi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Residual strain measurements in InGaAs metamorphic buffer layers on GaAs
(Planned) journal: European Physics Journal B, 56, 217 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-25

- **ID:** 00812

Authors: G. Trevisi, P. Frigeri, M. Minelli, P. Allegri, V. Avanzini and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Optical and morphological properties of InGaAs/AlGaAs self-assembled quantum dot nanostructures for 980 nm room temperature

emission

(Planned) journal: Optoelectronics Letters, 3, 161 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-25

• **ID:** 00811

Authors: L. Seravalli, P. Frigeri, V. Avanzini and S. Franchi

Authors - SANDiE partners: P14 (CNR-IMEM)

Title: 1.46 μm room-temperature emission from InAs/InGaAs quantum dot nanostructures

(Planned) journal: Optoelectronics Letters, 3, 165 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-25

• **ID:** 00810

Authors: A. Strittmatter, T. D. Germann, Th. Kettler, K. Posilovic, U. W. Pohl, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: MOCVD of InGaAs/GaAs quantum dots for lasers emitting at 1.25 μm

(Planned) journal: Journal of Crystal Growth 298, (2006) 591-594

(Planned) date of publication: 2006-11-29

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-23

• **ID:** 00809

Authors: T.P. Munt, D.E. Jesson, V.A. Shchukin and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin), P10 (Heriot-Watt Uni)

Title: Metastable states of surface nanostructure arrays studied using a Fokker-Planck equation

(Planned) journal: Physical Review B 75 (2007) 85422

(Planned) date of publication: 2007-02-13

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-23

• **ID:** 00808

Authors: S. Rodt, R. Seguin, A. Schliwa, F. Guffarth, K. Pötschke, U. W. Pohl, D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Size-dependent binding energies and fine-structure splitting of excitonic complexes in single InAs/GaAs quantum dots

(Planned) journal: J. of Luminescence 122 (2007) 735

(Planned) date of publication: 2007-01

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-23

• **ID:** 00807

Authors: R. Timm, A. Lenz, H. Eisele, L. Ivanova, K. Pötschke, U. W. Pohl, D. Bimberg, G. Balakrishnan, D. L. Huffaker, and M. Dähne

Authors - SANDiE partners: P04 (TU Berlin)

Title: Onset of GaSb/GaAs quantum dot formation

(Planned) journal: Phys. Stat. Sol. (c) 3 no. 11(2006) 3971-3974

(Planned) date of publication: 2006-11-24

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-23

• **ID:** 00806

Authors: U.W. Pohl, R. Seguin, S. Rodt, A. Schliwa, K. Pötschke, D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Control of structural and excitonic properties of self-organized InAs/GaAs quantum dots

(Planned) journal: Physica E: Low-dimensional Systems and Nanostructures, Vol 35 (2) (2006) 285-292

(Planned) date of publication: 2006-10-13

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-23

• **ID:** 00805

Authors: Sébastien Sauvage, Philippe Boucaud, Guy Fishman, G. Patriarche, Aristide Lemaître

Authors - SANDiE partners: P13 (Uni Paris)

Title: Intersublevel polaron transitions based on 3D 8 Band k.p envelope function theory

(Planned) event: SANDiE Workshop of Self-Assembled Nanostructure Simulation, University of Duisburg-Essen (Germany)

(Planned) date of presentation: 2006-10-04 to 2006-10-05

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-02-22

• **ID:** 00804

Authors: P. Boucaud, X. Li, M. El Kurdi, S. Sauvage, X. Checoury, S. David, N. Yam, F. Fossard, D. Bouchier, G. Fishman

Authors - SANDiE partners: P13 (Uni Paris)

Title: Ge/Si self-assembled islands for photonics applications

(Planned) event: MRS 2006 Fall meeting, Symposium L, group IV nanostructures, Boston

(Planned) date of presentation: 2006-11-27 to 2006-12-01

Research paper in international journal? (y/n): n

Status: presented, proceedings in press accepted

Submitted to Network Office: 2007-02-22

• **ID:** 00803

Authors: N.A.J.M. Kleemans, I.M.A. Bominaar-Silkens, V.M. Fomin, V.N. Gladilin, D. Granados, A.G. Taboada, J.M. García, P. Offermans, U. Zeitler

Authors - SANDiE partners: P07 (TU Eindhoven), P03 (Uni Antwerpen), P22 (CSIC Madrid)

Title: Oscillatory persistent currents in nano-volcanoes

(Planned) event: ICPS, Vienna

(Planned) date of presentation: 2006

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-02-20

• **ID:** 00802

Authors: Alexey E. Zhukov and Victor M. Ustinov

Authors - SANDiE partners: P26 (Ioffe)

Title: Diode lasers based on self-organized quantum dots

(Planned) event: International Workshop on NanoBio Technologies, St. Petersburg, 27-29 Nov. 2006

(Planned) date of presentation: 2006

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-02-19

• **ID:** 00801

Authors: M Tchernycheva, J C Harmand, G Patriarche, L Travers and G E Cirlin

Authors - SANDiE partners: P26 (Ioffe), P11 (LPN/CNRS)

Title: Temperature conditions for GaAs nanowire formation by Au-assisted molecular beam epitaxy

(Planned) journal: Nanotechnology 17 (2006) 4025–4030

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-19

• **ID:** 00800

Authors: V. G. Talalaev, J. W. Tamm, S. Sokolov, I. V. Shtrom, B. V. Novikov, A. T. Winzer, R. Goldhahn, G. Gobsch, N. D. Zakharov, P. Werner, U. Gösele, G. E. Cirlin, A. A. Tonkikh, V. M. Ustinov, G. G. Tarasov

Authors - SANDiE partners: P26 (Ioffe), P05 (MPI Halle)

Title: Tuning of the interdot resonance in stacked InAs quantum dot arrays by an external electric field

(Planned) journal: JOURNAL OF APPLIED PHYSICS 100, 083704, 2006

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-19

• **ID:** 00799

Authors: A. Marent, M. Geller, D. Bimberg, A. P. Vasi'ev, E. S. Semenova, A. E. Zhukov, and V. M. Ustinov

Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin)

Title: Carrier storage time of milliseconds at room temperature in self-organized quantum dots

(Planned) journal: APPLIED PHYSICS LETTERS 89, 072103, 2006

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-19

• **ID:** 00798

Authors: N.N. Ledentsov, F. Hopfer, A. Mutig, V.A. Shchukin, A.V. Savel'ev, G. Fiol, M. Kuntz, V.A. Haisler, T. Warming, E. Stock, S.S. Mikhlin, A.R. Kovsh, C. Bornholdt, A. Lenz, H. Eisele, M. Dähne, N.D. Zakharov, P. Werner, D. Bimberg

Authors - SANDiE partners: P26 (Ioffe), P28 (NL Nanosemiconductor), P04 (TU Berlin), P05 (MPI Halle)

Title: Novel concepts for ultrahigh-speed quantum-dot VCSELs and edge-emitters

(Planned) event: Proceedings of SPIE 6468; Physics and simulation of optoelectronic devices XV, (Eds: M. Osinski, F. Henneberger, Y.

Arakawa, Photonics West, January 2007

(Planned) date of presentation: 2007-02-07

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2007-02-19

• **ID:** 00797

Authors: N.N. Ledentsov, V.A. Shchukin, T. Kettler, K. Posilovic, D. Bimberg, L.Ya. Karachinsky, A.Yu. Gladyshev, M.V. Maximov, I.I. Novikov, Yu.M. Shernyakov, A.E. Zhukov, V.M. Ustinov, A.R. Kovsh

Authors - SANDiE partners: P26 (Ioffe), P28 (NL Nanosemiconductor), P04 (TU Berlin)

Title: MBE-grown metamorphic lasers for applications at telecom wavelengths

(Planned) journal: Journal of Crystal Growth Journal of Crystal Growth, special issue, pp. (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-19

• **ID:** 00796

Authors: N.V. Kryzhanovskaya, S.A. Blokhin, A.G. Gladyshev, N.A. Maleev, A.G. Kuzmenkov, E.M. Arakcheeva, E.M. Tanklevskaya, A.E. Zhukov, A.P. Vasil'ev, E.S. Semenova, M.V. Maximov, N.N. Ledentsov, V.M. Ustinov, E. Stock, D. Bimberg

Authors - SANDiE partners: P26 (Ioffe), P28 (NL Nanosemiconductor), P04 (TU Berlin)

Title: Room temperature lasting at 1.3 μm in microdisk with quantum dots

(Planned) journal: Fizika i Tekhnika Poluprovodnikov (in Russian) (Semiconductors, in English), v. 40, N. 9, pp. 1128-1132 (2006)

(Planned) date of publication: 2006

Research paper in international journal? (y/n): n

Status: published

Submitted to Network Office: 2007-02-19

• **ID:** 00795

Authors: A. Kovsh, I. Krestnikov, D. Livshits, S. Mikhlin, J. Weimert, A. Zhukov

Authors - SANDiE partners: P26 (Ioffe), P28 (NL Nanosemiconductor)

Title: Quantum dot laser with 75-nm-broad spectrum of emission

(Planned) journal: Optics Letters 32(7), 793-795 (2007)

(Planned) date of publication 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-19

• **ID:** 00794

Authors: T. Kettler, K. Posilovic, O. Schulz, L.Ya. Karachinsky, I.I. Novikov, Yu.M. Shernyakov, S.M. Kuznetsov, N.Yu. Gordeev, M.V.

Maximov, U. Ben-Ami, A. Sharon, S.S. Mikhlin, A.R. Kovsh, V.A. Shchukin, P.S. Kop'ev, N.N. Ledentsov, U.W. Pohl and D. Bimberg

Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin), P28 (NL Nanosemiconductor)

Title: Single transverse mode 850nm GaAs/AlGaAs lasers with narrow beam divergence

(Planned) journal: ELECTRONICS LETTERS 28th September 2006, Vol. 42, No. 20

(Planned) date of publication 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-19

• **ID:** 00793

Authors: T. Kettler, L. Ya. Karachinsky, N. N. Ledentsov, V. A. Shchukin, G. Fiol, M. Kuntz, A. Lochmann, O. Schulz, L. Reissmann, K.

Posilovic, D. Bimberg, I. Novikov, Yu. M. Shernyakov, N. Yu. Gordeev, M. V. Maximov, N. V. Kryzhanovskaya, A. E. Zhukov, E. S.

Semenova, A. P. Vasil'ev, and V. M. Ustinov, A. R. Kovsh

Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin), P28 (NL Nanosemiconductor)

Title: Degradation-robust single mode continuous wave operation of 1.46 μm metamorphic quantum dot lasers on GaAs substrate

(Planned) journal: APPLIED PHYSICS LETTERS 89, 041113, 2006

(Planned) date of publication 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-19

• **ID:** 00792

Authors: L Ya Karachinsky, T Kettler, I I Novikov, Yu M Shernyakov, N Yu Gordeev, M V Maximov, N V Kryzhanovskaya, A E Zhukov,

E S Semenova, A P Vasil'ev, V M Ustinov, G Fiol, M Kuntz, A Lochmann, O Schulz, L Reissmann, K Posilovic, A R Kovsh, S S Mikhlin,

V A Shchukin, N N Ledentsov and D Bimberg

Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin), P28 (NL Nanosemiconductor)

Title: Metamorphic 1.5 μm -range quantum dot lasers on a GaAs substrate

(Planned) journal: Semicond. Sci. Technol. 21 (2006) 691-696

(Planned) date of publication 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-19

• **ID:** 00791

Authors: L.Ya.Karachinsky, I.I.Novikov, T.Kettler, N.Yu.Gordeev, M.V.Maximov, Yu.M.Shernyakov, N.V.Kryzhanovskaya, A.E.Zhukov,

E.S.Semenova, A.P.Vasil'ev, V.M.Ustinov, G.Fiol, M.Kuntz, K.Posilovic, A.Lochmann, O.Schulz, L.Reissmann, A.R.Kovsh, S.S.Mikhlin,

V.A.Shchukin, N.N.Ledentsov, and D.Bimberg

Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin), P28 (NL Nanosemiconductor)

Title: Competition Of Different Recombination Channels In Metamorphic 1.5 μm Range Quantum Dot Lasers On GaAs Substrate

(Planned) event: 28th Int. Conf. Pys. Semicond (ICPS 2006), Vienna, Austria, July 24-28, 2006

(Planned) date of presentation 2006

Research paper in international journal? (y/n): y

Status: presented

Submitted to Network Office: 2007-02-19

• **ID:** 00790

Authors: L. Ya. Karachinsky, I. I. Novikov, Yu. M. Shernyakov, S. M. Kuznetsov, N. Yu. Gordeev, M. V. Maximov, and P. S. Kop'ev, U.

Ben-Ami, D. B. Arbiv, and A. Sharon, T. Kettler, K. Posilovic, O. Schulz, V. A. Shchukin, U. W. Pohl, N. N. Ledentsov, and D. Bimberg

Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin)

Title: High power GaAs/AlGaAs lasers ($\lambda \sim 850$ nm) with ultranarrow vertical beam divergence

(Planned) journal: APPLIED PHYSICS LETTERS 89, 231114, 2006

(Planned) date of publication 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-19

• **ID:** 00789

Authors: Marcus Gonschorek, Heidemarie Schmidt, Jens Bauer, Gabriele Benndorf, Gerald Wagner, Georgii E. Cirlin, and Marius Grundmann

Authors - SANDiE partners: P01 (Uni Leipzig), P26 (Ioffe)

Title: Thermally assisted tunneling processes in $\text{In}_x\text{Ga}_{1-x}\text{As}/\text{GaAs}$ quantum-dot structures

(Planned) journal: PHYSICAL REVIEW B 74, 115312, 2006

(Planned) date of publication 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2007-02-19

• **ID:** 00788

Authors: S A Blokhin, A V Sakharov, N A Maleev, M M Kulagina, Yu M Shernyakov, I I Novikov, N Yu Gordeev, M V Maximov, A G

Kuzmenkov, V M Ustinov, N N Ledentsov, A R Kovsh, S S Mikhlin, G Lin and J Y Chi
Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin), P28 (NL Nanosemiconductor)
Title: The impact of thermal effects on the performance of vertical-cavity surface-emitting lasers based on sub-monolayer InGaAs quantum dots
(Planned) journal: Semicond. Sci. Technol. 22 (2007) 203–208
(Planned) date of publication 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-19
 • **ID:** 00787
Authors: Sergey A. Blokhin, Nikolai A. Maleev, Alexander G. Kuzmenkov, Alexey V. Sakharov, Marina M. Kulagina, Yuri M. Shernyakov, Innokenty I. Novikov, Mikhail V. Maximov, Victor M. Ustinov, Alexey R. Kovsh, Sergey S. Mikhlin, Nikolai N. Ledentsov, Gray Lin, and Jim Y. Chi.
Authors - SANDiE partners: P26 (Ioffe), P28 (NL Nanosemiconductor)
Title: Vertical-Cavity Surface-Emitting Lasers Based on Submonolayer InGaAs Quantum Dots
(Planned) journal: IEEE JOURNAL OF QUANTUM ELECTRONICS, VOL. 42, NO. 9, SEPTEMBER 2006
(Planned) date of publication 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-19
 • **ID:** 00786
Authors: S.A. Blokhin, L.Ya. Karachinsky, I.I. Novikov, S.M. Kuznetsov, N.Yu. Gordeev, Y.M. Shernyakov, A.V. Savelyev, M.V. Maximov, A. Mutig, F. Hopfer, A.R. Kovsh, S.S. Mikhlin, I.L. Krestnikov, D.A. Livshits, V.M. Ustinov, V.A. Shchukin, N.N. Ledentsov, D. Bimberg
Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin), P28 (NL Nanosemiconductor)
Title: MBE-grown ultra-large aperture single-mode vertical-cavity surface-emitting laser with all-epitaxial filter section
(Planned) event: 14th International Conference on Molecular Beam Epitaxy, 3–8 September, 2006, Tokyo, Japan
(Planned) journal: Journal of Crystal Growth, 301-302, p. 945-950 (2007)
(Planned) date of publication 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-19
 • **ID:** 00785
Authors: S.A. Blokhin, L.Ya. Karachinsky, I.I. Novikov, S.M. Kuznetsov, Yu.M. Shernyakov, A.V. Savelyev, M.V. Maximov, A. Mutig, F. Hopfer, A.R. Kovsh, S.S. Mikhlin, I.L. Krestnikov, D.A. Livshits, V.M. Ustinov, N.N. Ledentsov and D. Bimberg
Authors - SANDiE partners: P26 (Ioffe), P04 (TU Berlin), P28 (NL Nanosemiconductor)
Title: MBE-grown ultra-large aperture single mode single-wavelength vertical-cavity surface-emitting laser with all-epitaxial filter section
(Planned) event: 14th Intern. Conf. on Molecular Beam Epitaxy (MBE2006), Tokyo, Japan, September 2006
(Planned) journal: Journal of Crystal Growth, special issue, pp. (2007)
(Planned) date of presentation 2006
Research paper in international journal? (y/n): y
Status: presented, published
Submitted to Network Office: 2007-02-19
 • **ID:** 00784
Authors: A.E. Zhukov, A.R. Kovsh, E.V. Nikitina, V.M. Ustinov, Zh.I. Alferov
Authors - SANDiE partners: P26 (Ioffe), P28 (NL Nanosemiconductor)
Title: Diode lasers with broad emission spectrum based on self-organized quantum dots
(Planned) journal: Semiconductor 47(5), 625-630 (2007) (Fizika i Tekhnika Poluprovodnikov, in russian)
(Planned) date of publication 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-02-19
 • **ID:** 00783
Authors: M. Meduna, J. Novak, G. Bauer, V. Holy, C.V. Falub, S. Tsujino, D. Grutzmacher
Authors - SANDiE partners: P18 (Uni Linz), A2 (Uni Prag)
Title: In situ investigations of Si and Ge interdiffusion in Ge-rich Si/SiGe multilayers using x-ray scattering
(Planned) journal: Semicond. Sci. Technol. 22, 447-453 (2007)
(Planned) date of publication 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-16
 • **ID:** 00782
Authors: G. Springholz, L. Abtin, V. Holy
Authors - SANDiE partners: P18 (Uni Linz), A2 (Uni Prag)
Title: Shape and composition of buried PbSe quantum dots determined by scanning tunneling microscopy
(Planned) journal: Applied Physics Letters 90, 113119 (2007)
(Planned) date of publication 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-16
 • **ID:** 00781
Authors: M. Stoffel, A. Rastelli, J. Stangl, T. Merdzhanova, G. Bauer, O. G. Schmidt
Authors - SANDiE partners: P18 (Uni Linz), P23 (MPI Stuttgart)
Title: Shape oscillations: a walk through the phase diagram of strained island
(Planned) journal: Phys. Rev. B, 113307/1-4 (2007)
(Planned) date of publication 2007
Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2007-02-16
• **ID:** 00780
Authors: G. Springholz and G. Bauer
Authors - SANDiE partners: P18 (Uni Linz)
Title: Molecular beam epitaxy of IV-VI semiconductor hetero- and nanostructures
(Planned) journal: Physica Status Solidi (b) 244, 2752-2767 (2007)
(Planned) date of publication 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-16
• **ID:** 00779
Authors: L. Abtin, G. Springholz, V. Holy
Authors - SANDiE partners: P18 (Uni Linz), A2 (Uni Prag)
Title: Surface exchange and shape transition of PbSe quantum dots during overgrowth
(Planned) journal: Phys. Rev. Lett. 97, 266103-1/4 (2006)
(Planned) date of publication 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-16
• **ID:** 00778
Authors: M. Simma, T. Fromherz, A. Raab, G. Springholz, G. Bauer
Authors - SANDiE partners: P18 (Uni Linz)
Title: Lateral photocurrent spectroscopy on self-assembled PbSe quantum dots
(Planned) journal: Appl. Phys. Lett. 88, 201105-1/3 (2006)
(Planned) date of publication 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-16
• **ID:** 00777
Authors: A.M.Sánchez, J.G.Lozano, R. García, M. Herrera, S. Ruffenach, O. Briot, D. González
Authors - SANDiE partners: P17 (Uni Cádiz)
Title: Strain mapping at atomic scale in highly mismatched heterointerfaces
(Planned) journal: Advanced Functional Materials
(Planned) date of publication 2007
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-02-14
• **ID:** 00776
Authors: J.G.Lozano, A.M.Sánchez, R. García, S. Ruffenach, O. Briot, D. González
Authors - SANDiE partners: P17 (Uni Cádiz)
Title: Strain relief analysis of InN quantum dots grown on GaN
(Planned) event: 14th Semiconducting and Insulating Materials Conference
(Planned) date of presentation 2007-05
Research paper in international journal? (y/n): n
Status: accepted
Submitted to Network Office: 2007-02-14
• **ID:** 00775
Authors: J.G.Lozano, A.M.Sánchez, R. García, M. Herrera, S. Ruffenach, O. Briot, D. González
Authors - SANDiE partners: P17 (Uni Cádiz)
Title: Misfit relaxation and nucleation mechanisms of InN quantum dots
(Planned) event: MRS Spring Meeting 2007 (San Francisco)
(Planned) date of presentation 2007-04-10
Research paper in international journal? (y/n): n
Status: accepted
Submitted to Network Office: 2007-02-14
• **ID:** 00774
Authors: Pedro L. Galindo, Slawomir Kret, Ana M Sanchez, Jean-Yves Laval, Andrés Yáñez, Joaquin Pizarro, Elisa Guerrero, Teresa Ben, Sergio I Molina
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: The Peak Pairs algorithm for strain mapping from HRTEM images
(Planned) journal: Ultramicroscopy
(Planned) date of publication 2007
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-02-09
• **ID:** 00773
Authors: Elisa Guerrero, Pedro Galindo, Andrés Yáñez, Teresa Ben, Sergio I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Error Quantification in Strain Mapping Methods
(Planned) journal: Microscopy & Microanalysis
(Planned) date of publication 2007
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-02-09
• **ID:** 00772
Authors: C. Labbé, C. Cornet, H. Folliot, P. Caroff, C. Levallois, T. Rohel, M. Gicquel-Guézou, and S. Loualiche

Authors - SANDiE partners: P12 (INSA LENS)
Title: Exciton and biexciton lifetimes in InAs/InP quantum dots emitting at 1.55 μm wavelength under resonant excitation
(Planned) journal: physica status solidi c 2007 4(2): p. 827-30
(Planned) date of publication 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-01
 • **ID:** 00771
Authors: C. Cornet, M. Hayne, A. Schliwa, F. Doré, J. Even, D. Bimberg, V. V. Moshchalkov and S. Loualiche
Authors - SANDiE partners: P12 (INSA LENS), P02 (Uni Leuven), P04 (TU Berlin)
Title: InAs/InP quantum dots (QDs): from fundamental understanding to coupled QD 1.55 μm laser applications
(Planned) journal: Phys. Stat. Sol. (c) 4 (2) (2007) p. 458-461
(Planned) date of publication 2007-02-07
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-02-01
 • **ID:** 00770
Authors: A. O. Ankiewicz, M. C. Carmo, N. A. Sobolev, W. Gehlhoff, E. M. Kaidashev, A. Rahm, M. Lorenz, and M. Grundmann
Authors - SANDiE partners: P15 (Uni Aveiro), P04 (TU Berlin), P01 (Uni Leipzig)
Title: Electron paramagnetic resonance in transition metal-doped ZnO nanowires
(Planned) journal: JOURNAL OF APPLIED PHYSICS 101 (2007) 024324
(Planned) date of publication 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-01-23
 • **ID:** 00769
Authors: C. Czekalla, J. Lenzner, A. Rahm, T. Nobis, and M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: A Zinc Oxide Microwire Laser
(Planned) journal: Superlattices and Microstructures
(Planned) date of publication 2007
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2007-01-22
 • **ID:** 00768
Authors: M. Grundmann, A. Rahm, Th. Nobis, H. v. Wenckstern, M. Lorenz, C. Czekalla, J. Lenzner
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Growth and Characterization of Optical and Electrical Properties of ZnO Nano- and Microwires
(Planned) journal: Proc. MRS 957 (2007)
(Planned) date of publication 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2007-01-22
 • **ID:** 00767
Authors: V. Holy, T. U. Schüllli, R. T. Lechner, G. Springholz, G. Bauer
Authors - SANDiE partners: P18 (Uni Linz), A2 (Uni Prag)
Title: Changes in the shapes of self-organized PbSe quantum dots during PbEuTe overgrowth investigated by anomalous x-ray diffraction
(Planned) journal: Applied Surface Science 253, 177-181 (2006)
(Planned) date of publication 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-01-19
 • **ID:** 00766
Authors: G. Chen, H. Lichtenberger, F. Schäffler, G. Bauer, W. Jantsch
Authors - SANDiE partners: P18 (Uni Linz)
Title: Geometry dependent nucleation mechanism for SiGe islands grown on pit-patterned Si(001) substrates
(Planned) journal: Mat. Sci. Eng. C 26, 795-799 (2006)
(Planned) date of publication 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-01-19
 • **ID:** 00764
Authors: L. Abtin, G. Springholz, V. Holy
Authors - SANDiE partners: P18 (Uni Linz), A02 (Charles Uni Prague)
Title: Surface exchange and shape transition of PbSe quantum dots during overgrowth
(Planned) journal: Phys. Rev. Lett. 97, 266103 (2006)
(Planned) date of publication 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2007-01-19
 • **ID:** 00763
Authors: G. Bauer, F. Schäffler
Authors - SANDiE partners: P18 (Uni Linz)
Title: Self-assembled Si and SiGe nanostructures: new growth concepts and structural analysis
(Planned) journal: phys. stat. sol. (a) 203, 3496-3505 (2006)
(Planned) date of publication 2006
Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2007-01-19
• **ID:** 00762
Authors: C. Cornet, A. Schliwa, M. Hayne, N. Chauvin, F. Doré, J. Even, V. V. Moshchalkov, D. Bimberg, G. Bremond, C. Bru-Chevallier, M. Gendry and S. Loualiche
Authors - SANDiE partners: P12 (INSA LENS), P04 (TU Berlin), P02 (Uni Leuven)
Title: InAs/InP quantum dots: from single to coupled dots applications
(Planned) journal: Phys. Stat. Sol. (c) 3 (11), 4039 (2006)
(Planned) date of publication 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-12-19
• **ID:** 00761
Authors: C. Cornet, M. Hayne, P. Caroff, C. Levallois, L. Joulaud, E. Homeyer, C. Paranthoen, J. Even, C. Labbé, H. Folliot, V. V. Moshchalkov and S. Loualiche
Authors - SANDiE partners: P12 (INSA LENS), P02 (Uni Leuven)
Title: Increase of charge carrier redistribution efficiency in a laterally organized superlattice of coupled quantum dots
(Planned) journal: Physical Review B
(Planned) date of publication 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-12-19
• **ID:** 00760
Authors: L. Turyanska, A. Patane, M. Henini, B. Hennequin, N.R. Thomas
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Temperature dependence of the photoluminescence emission from thiol-capped PbS quantum dots
(Planned) journal: Applied Physics Letter
(Planned) date of publication 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-12-15
• **ID:** 00759
Authors: E. E. Vdovin, Yu. N. Khanin, O. Makarovskiy, Yu. V. Dubrovskii, A. Patane, L. Eaves, M. Henini, C. J. Mellor, K. A. Benedict, and R. Airey
Authors - SANDiE partners: P09 (Uni Nottingham), P08 (Uni Sheffield)
Title: Magnetoanisotropy of electron correlation-enhanced tunnelling through a quantum dot
(Planned) journal: Physical Review B 75, 115315, 2007
(Planned) date of publication 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-12-11
• **ID:** 00758
Authors: T. Ben, D. L. Sales, F. Suárez, L. González, Y. González, J. M. García, M. L. Dotor and S. I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz), P22 (CSIC, Madrid)
Title: Nature and origin of thickness modulation in (InP)_m(In_{0.53}Ga_{0.47}As)_n short period superlattices waveguides for InAs quantum wires lasers
(Planned) journal: Microscopy of Semiconducting Materials XV
(Planned) event: MSM 2007 Congress
(Planned) date of presentation 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-12-11
• **ID:** 00757
Authors: S. Dommers, V. Temnov, U. Woggon, J. Gomis, J. Martinez-Pastor, M. Laemmlin, D. Bimberg
Authors - SANDiE partners: P20 (Uni Dortmund), P16 (Uni València), P04 (TU Berlin)
Title: Gain Dynamics after Ultrashort Pulse Trains in Quantum Dot based Semiconductor Optical Amplifiers
(Planned) event: CLEO/QELS 2007 in Baltimore, FOPS Montana 2007
(Planned) date of presentation 2007
Research paper in international journal? (y/n): n
Status: presented, accepted
Submitted to Network Office: 2006-12-08
• **ID:** 00756
Authors: D. L. Sales, T. Ben, J. Pizarro, P. Galindo, M. Varela, S. J. Pennycook, B Alén, D. Fuster, Y. González, L. González and S. I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz), P22 (CSIC Madrid)
Title: High resolution Z-contrast characterization of InAs/InP quantum wires on their initial growth stages
(Planned) journal: Microscopy of Semiconducting Materials XV (MSM)
(Planned) date of publication 2007
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-12-04
• **ID:** 00755
Authors: Momme Winkelkemper, Andrei Schliwa, and Dieter Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P27 (FHI Berlin)
Title: Interrelation of structural and electronic properties of In_xGa_{1-x}/GaN quantum dots using an eight-band k·p model
(Planned) journal: Phys. Rev. B 74, 153322 (2006)
(Planned) date of publication 2006-10-26

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-11-16

• **ID:** 00754

Authors: P. Rinke, A. Qteish, M. Winkelkemper, D. Bimberg, J. Neugebauer, and M. Scheffler

Authors - SANDiE partners: P04 (TU Berlin), P27 (FHI Berlin)

Title: Band gap and band parameters of InN and GaN from quasiparticle energy calculations based on exact-exchange density-functional theory

(Planned) journal: Appl. Phys. Lett. 89, 161919 (2006)

(Planned) date of publication 2006-10-20

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-11-16

• **ID:** 00753

Authors: T. Kettler, K. Posilovic, O. Schulz, L.Ya. Karachinsky, I.I. Novikov, Yu.M. Shernyakov, S.M. Kuznetsov, N.Yu. Gordeev, M.V. Maximov, U. Ben-Ami, A. Sharon, S.S. Mikhlin, A.R. Kovsh, V.A. Shchukin, P.S. Kop'ev, N.N. Ledentsov, U.W. Pohl, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg), P28 (NL Nanosemiconductor GmbH)

Title: Single Transverse Mode 850 nm GaAs/AlGaAs Lasers with Narrow Beam Divergence

(Planned) journal: Electr. Lett. 42 (No. 20)

(Planned) date of publication 2006-09-28

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-11-16

• **ID:** 00752

Authors: Vitaly A. Shchukin, Nikolai N. Shchukin, and D. Bimberg

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin), P05 (MPI Halle)

Title: Nanofaceting and Alloy Decomposition: From Basic Studies to Advanced Photonic Devices

(Planned) journal: Microelectronics Journal 37, 1451 (2006)

(Planned) date of publication 2006-07-28

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-11-16

• **ID:** 00751

Authors: R. Seguin, A. Schliwa, T. D. Germann, S. Rodt, M. Winkelkemper, K. Pötschke, A. Strittmatter, U. W. Pohl, T. Hammerschmidt, P. Kratzer, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin), P27 (FHI Berlin)

Title: Control of fine-structure splitting and excitonic binding energies in selected individual InAs/GaAs quantum dots

(Planned) journal: Appl. Phys. Lett. 89, (2006) 263109

(Planned) date of publication 2006-12-27

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-11-16

• **ID:** 00750

Authors: F. Hopfer, A. Mutig, G. Fiol, M. Kuntz, V. Shchukin, N.N. Ledentsov and D. Bimberg, S.S. Mikhlin, I.L. Krestnikov, D.A. Livshits and A.R. Kovsh, C. Bornholdt

Authors - SANDiE partners: P04 (TU Berlin), P28 (NL Nanosemiconductor)

Title: 20 Gb/s 85 °C Error Free Operation of VCSEL Based on Submonolayer Deposition of Quantum Dots

(Planned) event: 20th International Semiconductor Laser Conference, Kohala Coast, Hawaii, USA, September 2006

(Planned) date of presentation 2006-09-20

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-11-16

• **ID:** 00749

Authors: Sergio I. Molina, Maria Varela, Stephen J. Pennycook, David L. Sales, Teresa Ben, Joaquín Pizarro, Pedro Galindo, David Fuster, Yolanda Gonzalez and Luisa Gonzalez

Authors - SANDiE partners: P17 (Uni Cadiz), P22(CSIC Madrid)

Title: Initial stages of the formation of InAs/InP(001) quantum wires studied by high-resolution Z contrast imaging

(Planned) event: MRS Spring meeting, San Francisco, CA, USA, April 2006

(Planned) date of presentation 2006

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-11-06

• **ID:** 00748

Authors: Teresa Ben, David L. Sales, Pedro Galindo, David Fuster, Yolanda Gonzalez, Luisa Gonzalez, Maria Varela, Stephen J. Pennycook and Sergio I. Molina

Authors - SANDiE partners: P17 (Uni Cadiz), P22(CSIC Madrid)

Title: Controlling the morphology of stacked InAs/InP(001) quantum wires by scanning- transmission electron microscopy

(Planned) event: MRS Fall meeting, Boston, MA, USA, November 2006

(Planned) date of presentation 2006

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-11-06

• **ID:** 00747

Authors: Sabine Dommers, Vasily V. Temnov, Ulrike Woggon, Jordi Gomis, Juan Martinez-Pastor, Matthias Laemmlin, Dieter Bimberg

Authors - SANDiE partners: P20 (Uni Dortmund), P04 (TU Berlin), P16 (Uni Valencia)

Title: Complete ground state gain recovery after ultrashort double pulses in quantum dot based semiconductor optical amplifier

(Planned) journal: APL 90, 033508 (2007)

(Planned) date of publication 2007-01
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-10-22
• **ID:** 00746
Authors: V. Mlinar, F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Influence of the substrate orientation on the electronic and optical properties of InAs/GaAs quantum dots
(Planned) journal: APL 89, 261910 (2006)
(Planned) date of publication 2006-12-27
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-10-06
• **ID:** 00745
Authors: V.Mlinar, M. Tadic, F.M. Peeters,
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Hole and exciton energy levels in InP/ In_xGa_{1-x}P quantum dot molecules: Influence of geometry and magnetic field dependence
(Planned) journal: Phys Rev B 73, 235336 (2006)
(Planned) date of publication 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-10-06
• **ID:** 00744
Authors: C. Cornet
Authors - SANDiE partners: P12 (INSA LENS)
Title: electronic, optical and dynamic properties of self-organised and coupled quantum dots on InP substrate
(Planned) journal: PhD thesis
(Planned) date of publication 2006-06-27
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2006-09-12
• **ID:** 00743
Authors: J.G.Lozano, A.M.Sánchez, R. García, S. Ruffenach, O. Briot, D. González
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Structural and morphological aspects of capped and uncapped InN quantum dots
(Planned) event: 16th International Microscopy Congress, Sapporo (Japan)
(Planned) date of presentation 2006-09
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-09-12
• **ID:** 00742
Authors: J.G.Lozano, A.M.Sánchez, R. García, S. Ruffenach, O. Briot, D. González
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Estudio morfológico y del estado de relajación de puntos cuánticos de InN: Efecto del recubrimiento de GaN a baja temperatura
(Planned) event: IX Congreso Nacional de Materiales, Vigo (Spain)
(Planned) date of presentation 2006-06
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-09-12
• **ID:** 00741
Authors: Y. Sidor, B. Partoens, F. M. Peeters, T. Ben, A. Ponce, S. I. Molina, D. Fuster, L. Gonzalez, and Y. Gonzalez
Authors - SANDiE partners: P03 (Uni Antwerpen), P17 (Uni Cadiz), P22 (CSIC, Madrid)
Title: Excitons in coupled InAs/InP self-assembled quantum wires
(Planned) journal: Physical Review B 75, 125120 (2007)
(Planned) date of publication 2007-03-29
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-09-06
• **ID:** 00740
Authors: S. I. Molina, T. Ben, D. L. Sales, J. Pizarro, P. L. Galindo, M. Varela, S. J. Pennycook, D. Fuster, Y. González, L. González
Authors - SANDiE partners: P17 (Uni Cadiz), P22 (CSIC, Madrid)
Title: Determination of the strain generated in InAs/InP quantum wires: prediction of nucleation sites
(Planned) journal: Nanotechnology 17 (2006) 5652-5658
(Planned) date of publication 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-08-28
• **ID:** 00739
Authors: Innokenty Novikov, L.Ya.Karachinsky, N.Yu.Gordeev, M.V.Maximov, Yu.M.Shernyakov, N.V.Kryzhanovskaya, V.N.Nevedomsky, A.E.Zhukov, E.S.Semenova, A.P.Vasil'ev, V.M.Ustinov, T.Kettler, G.Fiol, M.Kuntz, K.Posilovic, A.Lochmann, O.Schulz, L.Reissmann, V.A.Shehukin, N.N.Ledentsov, D.Bimberg, A.R.Kovsh, S.S.Mikhrin
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St.Petersburg), P28 (NL Nanosemiconductor)
Title: High power cw operation of metamorphic 1.5 μm range quantum dot lasers on GaAs substrate
(Planned) event: LOYS 2006 St. Petersburg, Russia
(Planned) date of presentation 2006-06-26 to 2006-06-30
Research paper in international journal? (y/n): n

Status: presented
Submitted to Network Office: 2006-08-24
• **ID:** 00738
Authors: Martin Geller, Andreas Marent, Erik Stock, D. Bimberg, Vasily Zubkov, Irina Shulgunova, Alexander Solomonov
Authors - SANDiE partners: P04 (TU Berlin)
Title: Hole capture into self-organized InGaAs quantum dots via time-resolved capacitance measurements
(Planned) journal: Appl. Phys. Lett. 89, (2006) 232105
(Planned) date of publication: 2006-12-04
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-08-24
• **ID:** 00737
Authors: F. Hopfer, I. Kaiander, A. Lochmann, A. Mutig, S. Bognar, M. Kuntz, U. W. Pohl, V. A. Haisler, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Vertical-cavity surface-emitting quantum-dot laser with low threshold current grown by metal-organic vapor phase epitaxy
(Planned) journal: Appl. Phys. Lett. 89 (2006) 061105
(Planned) date of publication: 2006-08-08
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-08-24
• **ID:** 00735
Authors: I. I. Novikov, L. Ya. Karachinsky, M. V. Maximov, Yu. M. Shernyakov, S. M. Kuznetsov, N. Yu. Gordeev, V. A. Shchukin, P. S. Kop'ev, N. N. Ledentsov, U. Ben-Ami, V. P. Kalosha, A. Sharon, T. Kettler, K. Posilovic, D. Bimberg, V. Mikhelashvili, G. Eisenstein
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin)
Title: Single mode cw operation of 658 nm AlGaInP lasers based on longitudinal photonic band gap crystal
(Planned) journal: Appl. Phys. Lett. 88 (2006) 231108
(Planned) date of publication: 2006-06-08
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-08-24
• **ID:** 00734
Authors: M. Laemmlin, G. Fiol, C. Meuer, M. Kuntz, F. Hopfer, A.R. Kovsh, N.N. Ledentsov, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)
Title: Distortion-free optical amplification of 20-80 GHz modelocked laser pulses at 1.3 μm using quantum dots
(Planned) journal: Electr. Lett. 12, No. 12, (2006) 41-42
(Planned) date of publication: 2006-06-08
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-08-24
• **ID:** 00733
Authors: T. Warming, W. Wiczorek, M. Geller, and D. Bimberg, G. E. Cirlin, A. E. Zhukov, and V. M. Ustinov
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)
Title: Spin storage in self-organized quantum dots (contr. talk)
(Planned) event: Int. Conf. on Superlattices, Nano-Structures and Nano-Devices, Istanbul, Turkey, July / August, 2006
(Planned) journal: Phys. Stat. Sol. (c), pp. (2007)
(Planned) date of presentation: 2006-07-31
Research paper in international journal? (y/n): y
Status: presented, published
Submitted to Network Office: 2006-08-24
• **ID:** 00732
Authors: : A. Lochmann, E. Stock, O. Schulz, F. Hopfer, D. Bimberg, V.A. Haisler, A.I. Toropov, A.K. Bakarov, A.K. Kalagin
Authors - SANDiE partners: P04 (TU Berlin)
Title: Electrically Driven Quantum Dot Single Photon Source (contr. talk)
(Planned) event: Int. Conf. on Superlattices, Nano-Structures and Nano-Devices, Istanbul, Turkey, July / August, 2006
(Planned) journal: Phys. Stat. Sol. (c) 4 (2) (2007) p. 547-550
(Planned) date of presentation: 2006-07-31
Research paper in international journal? (y/n): y
Status: presented, published
Submitted to Network Office: 2006-08-24
• **ID:** 00731
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: High Speed Quantum Dot Photonics (invited talk)
(Planned) event: Int. Conf. on Superlattices, Nano-Structures and Nano-Devices, Istanbul, Turkey, July / August, 2006
(Planned) journal: Phys. Stat. Sol. (c), pp. (2007)
(Planned) date of presentation: 2006-08-02
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-08-24
• **ID:** 00730
Authors: Friedhelm Hopfer, Alex Mutig, Matthias Kuntz Kuntz, Gerrit Fiol, Dieter Bimberg, Nikolai N. Ledentsov, Vitali A. Shchukin, Sergey S. Mikhlin, Daniel A. Livshits, Igor L. Krestnikov, Alexey R. Kovsh, and Carsten Bornholdt
Authors - SANDiE partners: P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)
Title: Ultra High Speed Submonolayer Quantum Dot Vertical-Cavity Surface-Emitting Lasers
(Planned) event: 28th Int. Conf. on the Physics of Semiconductors, Vienna, Austria, July 24-28, 2006
(Planned) date of presentation: 2006-07-25
Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-08-24

• **ID:** 00729

Authors: F. Hopfer, A. Mutig, G. Fiol, M. Kuntz, D. Bimberg, S.S. Mikhlin, I.L. Krestnikov, D.A. Livshits, A.R. Kovsh, V. Shchukin, N.N. Ledentsov, C. Bornholdt, N.D. Zakharov, P. Werner

Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg), P28 (NL Nanosemiconductor GmbH)

Title: Ultra High Speed Submonolayer Quantum-Dot Vertical-Cavity Surface-Emitting Lasers (contr. talk)

(Planned) event: IEEE-Nano2006, Cincinnati, USA, July 17-20, 2006

(Planned) date of presentation: 2006-07-18

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-08-24

• **ID:** 00728

Authors: Matthias Kuntz, Gerrit Fiol, Carola Szewc, Matthias Lämmlin, Christian Meuer, Dieter Bimberg, Alexey Kovsh, Nikolai Ledentsov, Sebastian Ferber, Colja Schubert, Alexander Jacob, Andreas Steffan, Andreas Umbach

Authors - SANDiE partners: P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)

Title: High-Speed Quantum Dot Lasers and Amplifiers for Optical Data Communication (invited talk)

(Planned) event/journal: IEEE-Nano2006, Cincinnati, USA, July 17-20, 2006

(Planned) date of presentation: 2006-07-18

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-08-24

• **ID:** 00727

Authors: A. Lochmann, E. Stock, O. Schulz, F. Hopfer, V.A. Haisler, D. Bimberg, A.I. Toropov, A.K. Bakarov, A.K. Kalagin, M. Scholz, S. Büttner, O. Benson

Authors - SANDiE partners: P04 (TU Berlin)

Title: Electrically Pumped InAs Single Quantum Dot Emitter (poster)

(Planned) event: Workshop on Photonic Components for Broadband Communication, Stockholm, Sweden

(Planned) date of presentation: 2006-06-28 to 2006-06-29

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-08-24

• **ID:** 00726

Authors: N.D. Zakharov, P. Werner, L. Sokolov, U. Gösele

Authors - SANDiE partners: P05 (MPI Halle)

Title: Growth of Si whiskers by MBE: Mechanism and Peculiarities

(Planned) journal: PHYSICA E Low-dimensional Systems and Nanostructures 37, 148-152 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: accepted

Submitted to Network Office: 2006-08-02

• **ID:** 00725

Authors: L. K. Castelano, G.-Q. Hai, B. Partoens, and F. M. Peeters

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Artificial molecular quantum rings: Spin density functional theory calculations

(Planned) journal: PHYSICAL REVIEW B 74, 045313, 2006

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-08-01

• **ID:** 00724

Authors: Marcus Gonschorek, Heidemarie Schmidt, Jens Bauer, Gabriele Benndorf, Gerald Wagner, Georgii E. Cirlin, Marius Grundmann

Authors - SANDiE partners: P01 (Uni Leipzig), P26 (Ioffe, St. Petersburg)

Title: Thermally-assisted tunneling processes in InGaAs/GaAs quantum dot structures

(Planned) journal: Phys. Rev. B 74, 115312 (2006)

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-07-26

• **ID:** 00723

Authors: A. F. Slachmuylders, B. Partoens, W. Magnus, and F. M. Peeters

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Dielectric mismatch effect on the exciton states in cylindrical nanowires

(Planned) journal: Physical Review B

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: submitted

Submitted to Network Office: 2006-07-19

• **ID:** 00722

Authors: Alfonso G. Taboada, Daniel Granados, Victor V. Moshchalkov, Manus Hayne and Jorge M. García

Authors - SANDiE partners: P22 (CSIC, Madrid), P02 (Uni Leuven)

Title: Observation of PL intensity modulation in self-assembled Quantum Rings (QR) under strong pulsed magnetic fields

(Planned) event: ICPS28 Vienna, Austria

(Planned) date of presentation: 2006-07-24 to 2006-07-28

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-07-18

- **ID:** 00721
Authors: A.G. Taboada, F. Suárez, D. Granados, T. J. Badcock, D. J. Mowbray, K. M. Groom, B. Alén, J.M. García and M.L. Dotor
Authors - SANDiE partners: P22 (CSIC, Madrid), P08 (Uni Sheffield)
Title: Electro-Optical Characterization of Self-Assembled InAs/GaAs Quantum Rings Embedded in P-i-N and Schottky Diodes
(Planned) event: ICPS28 Vienna, Austria
(Planned) date of presentation: 2006-07-24 to 2006-07-28
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-07-18
- **ID:** 00720
Authors: David Fuster , Maria Ujue Gonzalez, Yolanda Gonzalez, Luisa Gonzalez
Authors - SANDiE partners: P22 (CSIC, Madrid)
Title: In situ measurements of InAs and InP (001) surface stress changes induced by surface reconstruction transitions
(Planned) journal: Surface Science 600 (2006) 23–32
(Planned) date of publication: 2005-11-02
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-07-18
- **ID:** 00719
Authors: Benito Alen, Jose Bosch, Daniel Granados, Juan Martinez-Pastor, Jorge M. Garcia, and Luisa Gonzalez
Authors - SANDiE partners: P22 (CSIC, Madrid), P16 (Uni Valencia)
Title: Oscillator strength reduction induced by external electric fields in self-assembled quantum dots and rings
(Planned) journal: Phys. Rev. B 75, 045319 (2007)
(Planned) date of publication: 2007-01
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-07-18
- **ID:** 00718
Authors: G. Santoro, I. Prieto, J. B. González-Díaz, L.J. Martínez and P. A. Postigo
Authors - SANDiE partners: P22 (CSIC, Madrid)
Title: Optimization of the photonic band gap in the two-dimensional triangular lattice of triangular holes
(Planned) journal: OPTICAL EXPRESS
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2006-07-18
- **ID:** 00717
Authors: B. Alen, D. Fuster, Y. Gonzalez, L. Gonzalez, and J. Martinez-Pastor
Authors - SANDiE partners: P22 (CSIC, Madrid), P16 (Uni Valencia)
Title: InAs/InP single quantum wire formation and emission at 1.5 μm
(Planned) journal: APL 89, 233126 (2006)
(Planned) date of publication: 2006-12
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-07-18
- **ID:** 00716
Authors: M. A. Garcia, M. L. Ruiz-Gonzalez, A. Quesada, J. L. Costa-Krämer, J. F. Fernandez, S. J. Khatib, A. Wennberg, A. C. Caballero, M. S. Martin-Gonzalez, M. Villegas, F. Briones, J. M. Gonzalez-Calbet, and A. Hernando
Authors - SANDiE partners: P22 (CSIC, Madrid)
Title: Interface Double-Exchange Ferromagnetism in the Mn-Zn-O System: New Class of Biphasic Magnetism
(Planned) journal: PRL 94, 217206 (2005)
(Planned) date of publication: 2005-07-03
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-07-18
- **ID:** 00715
Authors: A. Mazuelas, L. González, J. M. García, Y. González, T. Schuelli, C. Priester, and H. T. Metzger
Authors - SANDiE partners: P22 (CSIC, Madrid)
Title: Strain determination in MBE-grown InAs quantum wires on InP
(Planned) journal: PHYSICAL REVIEW B 73, 045312 (2006)
(Planned) date of publication: 2006-01-12
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-07-18
- **ID:** 00714
Authors: E. López-Ponce, J. L. Costa-Krämer, M. S. Martín-González, F. Briones, J. F. Fernández, A. C. Caballero, M. Villegas, and J. de Frutos
Authors - SANDiE partners: P22 (CSIC, Madrid)
Title: Growth and characterization of Sn doped ZnO thin films by pulsed laser deposition
(Planned) journal: phys. stat. sol. (a) 203, No. 6, 1383–1389 (2006)
(Planned) date of publication: 2006-05-03
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-07-18
- **ID:** 00713
Authors: P. Alonso-Gonzalez, M.S. Martin-Gonzalez, J. Martin-Sanchez, Y. Gonzalez, L. Gonzalez
Authors - SANDiE partners: P22 (CSIC, Madrid)

Title: Ordered InAs QDs using prepatterned substrates by monolithically integrated porous alumina
(Planned) journal: Journal of Crystal Growth 294(2) (2006) 168-173
(Planned) date of publication: 2006-06-07
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-07-18
• ID: 00712
Authors: E. López-Ponce, A. Wennberg, M. S. Martín-González, J. L. Costa-Krämer, M.A. García, A. Quesada, A. Hernando, A. C. Caballero, M. Villegas, and J. F. Fernández
Authors - SANDiE partners: P22 (CSIC, Madrid)
Title: Origin of Room Temperature Magnetism in Thin (ZnO)_{1-x}(MnO₂)_x Films and ZnO/MnO₂ Multilayers
(Planned) journal: Jap. J. Appl. Phy. (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-07-18
• ID: 00711
Authors: Benito Alen, Juan Martínez-Pastor, Daniel Granados, and Jorge M. Garcia
Authors - SANDiE partners: P16 (Uni Valencia), P22 (CSIC, Madrid)
Title: Continuum and discrete excitation spectrum of single quantum rings
(Planned) journal: PRB (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-07-18
• ID: 00710
Authors: P. Atkinson, S. P. Bremner, D. Anderson, M. B. Ward, D. G. Gevaux, T. Farrow, G. A. C. Jones, A. J. Shields and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Controlled positioning of InAs quantum dots using electron-beam lithographic patterned GaAs substrates
(Planned) event: ESPS-NIS — Sixth International Workshop on Epitaxial Semiconductors on Patterned Substrates and Novel Index Surfaces, Nottingham UK
(Planned) date of presentation: 2006-04-03 to 2006-04-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-07-13
• ID: 00709
Authors: T. Farrow, M. B. Ward, P. See, P. Atkinson, O. Z. Karimov, Z. L. Yuan, K. Cooper, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Applications of MBE-grown InAs quantum dots with bimodal height distributions in optically and electrically excited single photon sources at telecom wavelengths
(Planned) event: ESPS-NIS — Sixth International Workshop on Epitaxial Semiconductors on Patterned Substrates and Novel Index Surfaces, Nottingham UK
(Planned) date of presentation: 2006-04-03 to 2006-04-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-07-13
• ID: 00708
Authors: S. S. Hees, B. E. Kardynal, P. See, I. Farrer, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Absorption processes in quantum dot resonant tunnelling diodes for single photon detection
(Planned) event: Condensed Matter and Materials Physics, Exeter UK
(Planned) date of presentation: 2006-04-20 to 2006-04-21
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-07-13
• ID: 00707
Authors: D. J. P. Ellis, A. J. Bennett, P. Atkinson, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Electrical isolation of a single self assembled quantum dot using an aluminium oxide current aperture
(Planned) event: Condensed Matter and Materials Physics, Exeter UK
(Planned) date of presentation: 2006-04-20 to 2006-04-21
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-07-13
• ID: 00706
Authors: T. Farrow, M. B. Ward, P. See, P. Atkinson, O. Z. Karimov, Z. L. Yuan, K. Cooper, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Electrical on-demand single photon sources at 1.3 μm
(Planned) event: Condensed Matter and Materials Physics, Exeter UK
(Planned) date of presentation: 2006-04-20 to 2006-04-21
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-07-13
• ID: 00705
Authors: H. Li, P. Simmonds, H. E. Beere, B. E. Kardynal, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Development of quantum dot resonant tunnelling diode for 1.3 and 1.55 μm single photon detection

(Planned) event: Quantum Dots 2006, Chamonix-Mont Blanc France
(Planned) date of presentation: 2006-05-01 to 2006-05-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-07-13

- **ID:** 00704
Authors: R. M. Stevenson, R. J. Young, P. Atkinson, K. Cooper, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Entangled photon pairs from a quantum dot source
(Planned) event: Quantum Dots 2006, Chamonix-Mont Blanc France
(Planned) date of presentation: 2006-05-01 to 2006-05-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-07-13
- **ID:** 00703
Authors: D. G. Gevaux, D. J. P. Ellis, A. J. Bennett, R. M. Stevenson, A. J. Shields, P. Atkinson, S. P. Bremner, J. Griffiths, D. Anderson, G. A. C. Jones and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Cavity controlled enhancement and suppression of the spontaneous emission rate of a quantum dot
(Planned) event: Quantum Dots 2006, Chamonix-Mont Blanc France
(Planned) date of presentation: 2006-05-01 to 2006-05-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-07-13
- **ID:** 00702
Authors: R. J. Young, R. M. Stevenson, P. Atkinson, K. Cooper, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Entangled photons on-demand from a single quantum dot
(Planned) event: CLEO / QELS 2006, Long Beach, California USA
(Planned) date of presentation: 2006-05-21 to 2006-05-26
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-07-13
- **ID:** 00701
Authors: R. M. Stevenson, R. J. Young, P. Atkinson, K. Cooper, D. A. Ritchie, and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Control of exciton fine structure splitting in quantum dots
(Planned) event: International School on the Physics of Semiconducting Compounds, Ustron-Jaszowiec Poland
(Planned) date of presentation: 2006-06-17 to 2006-06-23
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-07-13
- **ID:** 00700
Authors: D. G. Gevaux, A. J. Bennett, R. M. Stevenson, A. J. Shields, P. Atkinson, J. Griffiths, D. Anderson, G. A. C. Jones and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Enhancement and suppression of spontaneous emission by temperature tuning InAs quantum dots to photonic crystal cavities
(Planned) journal: Appl. Phys. Lett., 88, 131101 (2006)
(Planned) date of publication: 2006-03-27
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-07-13
- **ID:** 00699
Authors: D. J. P. Ellis, A. J. Bennett, A. J. Shields, P. Atkinson and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Electrically addressing a single self-assembled quantum dot
(Planned) journal: Appl. Phys. Lett., 88, 133509 (2006)
(Planned) date of publication: 2006-03-27
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-07-13
- **ID:** 00698
Authors: P. Atkinson, M. B. Ward, S. P. Bremner, D. Anderson, T. Farrow, G. A. C. Jones, A. J. Shields and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Site-Control of InAs Quantum Dots using Ex-Situ Electron-Beam Lithographic Patterning of GaAs Substrates
(Planned) journal: Jpn. J. Appl. Phys., 45, Part 1, 2519 (2006)
(Planned) date of publication: 2006-04-07
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-07-13
- **ID:** 00697
Authors: T. Müller, G. Strasser, and K. Unterrainer
Authors - SANDiE partners: P24 (TU Wien)
Title: Ultrafast spectral hole burning spectroscopy of exciton spin flip processes in InAs/GaAs quantum dots
(Planned) journal: Appl. Phys. Lett. 88, 192105 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2006-07-12
• **ID:** 00696
Authors: M. Schramboeck, W. Schrenk, T. Roch, A.M. Andrews, M. Austerer, G. Strasser
Authors - SANDiE partners: P24 (TU Wien)
Title: Self organized InAs quantum dots grown on patterned GaAs substrates
(Planned) journal: Microelec. Eng., 83, 1573 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-07-12
• **ID:** 00695
Authors: Igor L Kuskovsky, W. MacDonald, A. O. Govorov, L. Muroukh, X. Wei, M. C. Tamargo, M. Tadic, F. M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Optical Aharonov-Bohm effect in stacked type-II quantum dots
(Planned) journal: PRB 75, 035342 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-07-03
• **ID:** 00693
Authors: A. Lochmann, E. Stock, O. Schulz, F. Hopfer, D. Bimberg, V.A. Haisler, A.I. Toropov, A.K. Bakarov, A.K. Kalagin
Authors - SANDiE partners: P04 (TU Berlin)
Title: Electrically Driven Single Quantum Dot Polarized Single Photon Emitter
(Planned) journal: Electr. Lett. 42 (13) 774 (2006)
(Planned) date of publication: 2006-06-22
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
• **ID:** 00692
Authors: Udo W. Pohl, Andrei Schliwa, Robert Seguin, Sven Rodt, Konstantin Pötschke, and Dieter Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Size-tunable exchange interaction in InAs/GaAs quantum dots
(Planned) journal: Adv. in Sol. Stat. Phys. (Vol 46)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2006-06-28
• **ID:** 00691
Authors: R. Timm, H. Eisele, A. Lenz, T.-Y. Kim, F. Streicher, K. Pötschke, U.W. Pohl, D. Bimberg, M. Dähne
Authors - SANDiE partners: P04 (TU Berlin)
Title: Structure of InAs/GaAs quantum dots grown with Sb surfactant
(Planned) journal: Physica E 32, 25-28
(Planned) date of publication: 2006-01-25
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
• **ID:** 00690
Authors: R. Seguin, A. Schliwa, S. Rodt, K. Pötschke, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Quantum dot size dependence of exciton fine-structure splitting
(Planned) journal: : Physica E 32, 101-103
(Planned) date of publication: 2006-01-19
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
• **ID:** 00689
Authors: U.W. Pohl, K. Pötschke, A. Schliwa, M.B. Lifshits, V.A. Shechukin, D.E. Jesson, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)
Title: Formation and evolution of multimodal size distributions of InAs/GaAs quantum dots
(Planned) journal: Physica E 32, 9-13
(Planned) date of publication: 2006-02-15
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
• **ID:** 00688
Authors: M. Geller, E. Stock, R. Sellin, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Direct observation of tunneling emission to determine localization energies in selforganized quantum dots
(Planned) journal: Physica E 32, 171-174
(Planned) date of publication: : 2006-01-25
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
• **ID:** 00687
Authors: C L Walker, I C Sandall, P M Smowton, I Sellers, D J Mowbray, H Y Liu and M Hopkinson
Authors - SANDiE partners: P08 (University of Sheffield)

Title: The role of high growth temperature GaAs spacer layers in 1.3- μm In(Ga)As quantum-dot lasers
(Planned) journal: IEEE PHOTONICS TECHNOLOGY LETTERS 17 (10): 2011-2013 OCT 2005
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
 • **ID:** 00686

Authors: I R Sellers, D J Mowbray, T J Badcock, J P R Wells, P J Phillips, D A Carder, H Y Liu , K M Groom and M Hopkinson
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Infrared modulated interlevel spectroscopy of 1.3 μm self-assembled quantum dot lasers using a free electron laser
(Planned) journal: APPLIED PHYSICS LETTERS 88 (8): Art. No. 081108 FEB 20 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
 • **ID:** 00685

Authors: I C Sandall, P M Smowton, C L Walker, T Badcock, D J Mowbray, H Y Liu and M Hopkinson
Authors - SANDiE partners: P08 (University of Sheffield)
Title: The effect of p doping in InAs quantum dot lasers
(Planned) journal: APPLIED PHYSICS LETTERS 88 (11): Art. No. 111113 MAR 13 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
 • **ID:** 00684

Authors: I C Sandall, P M Smowton, C L Walker, H Y Liu, M Hopkinson and D J Mowbray
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Recombination mechanisms in 1.3- μm InAs quantum-dot lasers
(Planned) journal: IEEE PHOTONICS TECHNOLOGY LETTERS 18 (5-8): 965-967 MAR-APR 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
 • **ID:** 00683

Authors: D Sanvitto, A Daraei, A Tahraoui, M Hopkinson, P W Fry, D M Whittaker and M S Skolnick
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Observation of ultrahigh quality factor in a semiconductor microcavity
(Planned) journal: APPLIED PHYSICS LETTERS 86 (19): Art. No. 191109 MAY 9 2005
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
 • **ID:** 00682

Authors: A D Bristow, A Garcia-Deniz, A M Fox, D M Whittaker, M S Skolnick, T F Krauss and M Hopkinson
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Reflection and emission of Brillouin zone edge states for active photonic crystal waveguides
(Planned) journal: JOURNAL OF OPTICS A-PURE AND APPLIED OPTICS 7 (6): S270-S275 Suppl. S JUN 2005
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
 • **ID:** 00681

Authors: S I Rybchenko, I E Itskevich, M S Skolnick, J Cahill, A I Tartakovskii, G Hill and M Hopkinson
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Tuning of electronic coupling between self-assembled quantum dots
(Planned) journal: APPLIED PHYSICS LETTERS 87 (3): Art. No. 033104 JUL 18 2005
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
 • **ID:** 00680

Authors: S K Ray, K M Groom, R A Hogg, Liu HY, M Hopkinson, T J Badcock, D J Mowbray and M S Skolnick
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Improved temperature performance of 1.31- μm quantum dot lasers by optimized ridge waveguide design
(Planned) journal: IEEE PHOTONICS TECHNOLOGY LETTERS 17 (9): 1785-1787 SEP 2005
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
 • **ID:** 00679

Authors: A Ebbens, D N Krizhanovskii, A I Tartakovskii, F Pulizzi, T Wright, A V Savelyev, M S Skolnick and M Hopkinson
Authors - SANDiE partners: P08 (University of Sheffield), P26 (Ioffe Institute)
Title: Optical orientation and control of spin memory in individual InGaAs quantum dots
(Planned) journal: PHYSICAL REVIEW B 72 (7): Art. No. 073307 AUG 2005
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-28

• **ID:** 00678

Authors: H Y Liu, C M Tey, I R Sellers, T J Badcock, D J Mowbray, M S Skolnick, R Beanland, M Hopkinson and A G Cullis

Authors - SANDiE partners: P08 (University of Sheffield), P19 (Bookham)

Title: Mechanism for improvements of optical properties of 1.3- μ m InAs/GaAs quantum dots by a combined InAlAs-InGaAs cap layer

(Planned) journal: JOURNAL OF APPLIED PHYSICS 98 (8): Art. No. 083516 OCT 15 2005

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-28

• **ID:** 00677

Authors: D N Krizhanovskii, A Ebbens, A I Tartakovskii, F Pulizzi, T Wright, M S Skolnick and M Hopkinson

Authors - SANDiE partners: P08 (University of Sheffield)

Title: Individual neutral and charged In_xGa_{1-x}As-GaAs quantum dots with strong in-plane optical anisotropy

(Planned) journal: PHYSICAL REVIEW B 72 (16): Art. No. 161312 OCT 2005

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-28

• **ID:** 00676

Authors: S A Hashemizadeh, J P R Wells, P Murzyn, J Brown, B D Jones, T Wang, P J Parbrook, A M Fox, D J Mowbray and M S Skolnick

Authors - SANDiE partners: P08 (University of Sheffield)

Title: Picosecond carrier dynamics in AlInGa_N multiple quantum wells

(Planned) journal: APPLIED PHYSICS LETTERS 87 (23): Art. No. 232106 DEC 5 2005

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-28

• **ID:** 00675

Authors: P Murzyn, A Z Garcia-Deniz, A M Fox, J P R Wells, D M Whittaker, M S Skolnick, T F Krauss and J S Roberts

Authors - SANDiE partners: P08 (University of Sheffield)

Title: Ultrafast nonlinear response of AlGaAs/InAlGaAs MQW photonic crystal waveguides

(Planned) journal: PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE 202 (14): 2653-2656 NOV 2005

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-28

• **ID:** 00674

Authors: D N Krizhanovskii, D Sanvitto, S Ceccarelli, M S Skolnick and J S Roberts

Authors - SANDiE partners: P08 (University of Sheffield)

Title: Polarisation properties of optical parametric oscillator emission in a semiconductor microcavity

(Planned) journal: PHYSICA STATUS SOLIDI A-APPLICATIONS AND MATERIALS SCIENCE 202 (14): 2621-2625 NOV 2005

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-28

• **ID:** 00673

Authors: H Y Liu, I R Sellers, M Gutierrez, K M Groom, R Beanland, W M Soong, M Hopkinson, J P R David, T J Badcock, D J Mowbray and M S Skolnick

Authors - SANDiE partners: P08 (University of Sheffield), P19 (Bookham)

Title: Optimizing the growth of 1.3- μ m InAs/InGaAs dots-in-a-well structure: Achievement of high-performance laser

(Planned) journal: MATERIALS SCIENCE & ENGINEERING C-BIOMIMETIC AND SUPRAMOLECULAR SYSTEMS 25 (5-8): 779-783 Sp. Iss. SI DEC 2005

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-28

• **ID:** 00672

Authors: I P Marko, A R Adams, S J Sweeney, D J Mowbray, M S Skolnick, H Y Liu and K M Groom

Authors - SANDiE partners: P08 (University of Sheffield)

Title: Recombination and loss mechanisms in low-threshold InAs-GaAs 1.3- μ m quantum-dot lasers

(Planned) journal: IEEE JOURNAL OF SELECTED TOPICS IN QUANTUM ELECTRONICS 11 (5): 1041-1047 SEP-OCT 2005

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-28

• **ID:** 00671

Authors: A Daraei, A Tahraoui, D Sanvitto, J A Timpson, P W Fry, M Hopkinson, P S S Guimaraes, H Vinck, D M Whittaker, M S Skolnick and A M Fox

Authors - SANDiE partners: P08 (University of Sheffield)

Title: Control of polarized single quantum dot emission in high-quality-factor microcavity pillars

(Planned) journal: APPLIED PHYSICS LETTERS 88 (5): Art. No. 051113 JAN 30 2006

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2006-06-28
ID: 00670
Authors: H Y Liu, M J Steer, T J Badcock, D J Mowbray, M S Skolnick, F Suarez, J S Ng, M Hopkinson and J P R David
Authors - SANDiE partners: P08 (University of Sheffield), P22 (CSIC Madrid)
Title: Room-temperature 1.6 μm light emission from InAs/GaAs quantum dots with a thin GaAsSb cap layer
(Planned) journal: JOURNAL OF APPLIED PHYSICS 99, (4): Art. No. 046104 FEB 15 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
ID: 00669
Authors: D N Krizhanovskii, D Sanvitto, I A Shelykh, M M Glazov, G Malpuech, D D Solnyshkov, A Kavokin, S Ceccarelli, M S Skolnick and J S Roberts
Authors - SANDiE partners: P08 (University of Sheffield), P26 (Ioffe Institute)
Title: Rotation of the plane of polarization of light in a semiconductor microcavity
(Planned) journal: PHYSICAL REVIEW B, 73 (7): Art. No. 073303 FEB 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
ID: 00668
Authors: A V Savelyev, A I Tartakovskii, M S Skolnick, D J Mowbray, M V Maximov, V M Ustinov and R P Seisyan
Authors - SANDiE partners: P08 (University of Sheffield), P26 (Ioffe Institute)
Title: Charging and spin-polarization effects in InAs quantum dots under bipolar carrier injection
(Planned) journal: APPLIED PHYSICS LETTERS, 88 (11): Art. No. 111104 MAR 13 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
ID: 00667
Authors: A I Tartakovskii, R S Kolodka, H Y Liu, M A Migliorato, M Hopkinson, M N Makhonin, D J Mowbray and M S Skolnick
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Exciton fine structure splitting in dot-in-a-well structures
(Planned) journal: APPLIED PHYSICS LETTERS, 88 (13): Art. No. 131115 MAR 27 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
ID: 00666
Authors: A M Adawi, A Cadby, L G Connolly, W C Hung, R Dean, A Tahraoui, A M Fox, A G Cullis, D Sanvitto, M S Skolnick and D G Lidzey
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Spontaneous emission control in micropillar cavities containing a fluorescent molecular dye
(Planned) journal: ADVANCED MATERIALS, 18 (6): 742+ MAR 17 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
ID: 00665
Authors: P Murzyn, A Z Garcia-Deniz, D O Kundys, A M Fox, J P R Wells, D M Whittaker, M S Skolnick, T F Krauss and J S Roberts
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Control of the nonlinear carrier response time of AlGaAs photonic crystal waveguides by sample design
(Planned) journal: APPLIED PHYSICS LETTERS 88 (14): Art. No. 141104 APR 3 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
ID: 00664
Authors: D O Kundys, J P R Wells, A D Andreev, S A Hashemizadeh, T Wang, P J Parbrook, A M Fox, D J Mowbray and M S Skolnick
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Resolution of discrete excited states in InxGa1-xN multiple quantum wells using degenerate four-wave mixing
(Planned) journal: PHYSICAL REVIEW B, 73 (16): Art. No. 165309 APR 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
ID: 00663
Authors: : J A Timpson, D Sanvitto, A Daraei, P S S Guimaraes, A Tahraoui, P W Fry, M Hopkinson, D M Whittaker, A M Fox and M S Skolnick
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Polarisation control and emission enhancement of a quantum dot in ultra-high finesse microcavity pillars
(Planned) journal: PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES 32 (1-2): 500-503 MAY 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28

- **ID:** 00662
Authors: D Sanvitto, D N Krizhanovski, S Ceccarelli, M S Skolnick and J S Roberts
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Polaritonic polarization effects in a semiconductor microcavity
(Planned) journal: PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES 32 (1-2): 492-495 MAY 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-28
- **ID:** 00661
Authors: D J Mowbray
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Quantum Dot Lasers close in on their quantum-well rivals
(Planned) journal: Laser Focus World, 41(6): 157-159 June 2005
(Planned) date of publication: 2005
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2005-06-09
- **ID:** 00660
Authors: : D J Mowbray and M S Skolnick
Authors - SANDiE partners: P08 (University of Sheffield)
Title: New Physics and Devices Based on Self-Assembled Semiconductor Quantum Dots
(Planned) journal: Journal of Physics D, 38(13): 2059-2076 July 7 2005
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-09
- **ID:** 00659
Authors: M S Skolnick and D J Mowbray
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Self-assembled semiconductor quantum dots: Fundamental physics and device a applications
(Planned) journal: ANNUAL REVIEW OF MATERIALS RESEARCH, Vol 34, Page 181 (2004)
(Planned) date of publication: 2004
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-09
- **ID:** 00658
Authors: A I Tartakovskii, M D Makhonin, J Cahill, D M Whittaker, J P R Wells, A M Fox, D J Mowbray, M S Skolnick, M J Steer, K M Groom and M Hopkinson
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Precise measurement of the fraction of charged dots in self-assembled quantum dot ensembles using ultrafast pump-probe techniques
(Planned) journal: Applied Physics Letters, Vol 85, Page 2226 (2004)
(Planned) date of publication: 2004
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-09
- **ID:** 00657
Authors: E A Zibik, L R Wilson, R P Green, G Bastard, R Ferreira, P J Phillips, D A Carder, J P R Wells, M S Skolnick, J W Cockburn, M J Steer and M Hopkinson
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Intraband relaxation via polaron decay in InAs self-assembled quantum dots
(Planned) journal: Physical Review B, Vol 70, Article 161305 (2004)
(Planned) date of publication: 2004
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-09
- **ID:** 00656
Authors: S I Rybchenko, I E Itskevich, A D Andreev, J Cahill, A I Tartakovskii, M S Skolnick, G Hill and M Hopkinson
Authors - SANDiE partners: P08 (University of Sheffield)
Title: High pressure as a tool to tune electronic coupling in self-assembled quantum dot nanostructures
(Planned) journal: PHYSICA STATUS SOLIDI B-BASIC RESEARCH, Vol 241, Page 3257 (2004)
(Planned) date of publication: 2004
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-09
- **ID:** 00655
Authors: E A Zibik, L R Wilson, R P Green, G Bastard, R Ferreira, P J Phillips, D A Carder, J P R Wells, M S Skolnick, J W Cockburn, M J Steer and M Hopkinson
Authors - SANDiE partners: P08 (University of Sheffield)
Title: The polaronic nature of intraband relaxation in InAs/GaAs self-assembled quantum dots
(Planned) journal: PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, Vol 26, Page 408 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-09
- **ID:** 00654
Authors: E A Zibik, A D Andreev, L R Wilson, M J Steer, R P Green, W H Ng, J W Cockburn, M S Skolnick and M Hopkinson

Authors - SANDiE partners: P08 (University of Sheffield)
Title: Effect of the electron population on intraband absorption in InAs/GaAs self-assembled quantum dots
(Planned) journal: PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, Vol 26, Page 105 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-09
• **ID:** 00653
Authors: J J Finley, M Sabathil, P Vogl, G Abstreiter, R Oulton, A I Tartakovskii, D J Mowbray, M S Skolnick, S L Liew, A G Cullis and M Hopkinson
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Quantum-confined Stark shifts of charged exciton complexes in quantum dots
(Planned) journal: Physical Review B, Vol 70, Article 201308 (2004)
(Planned) date of publication: 2004
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-09
• **ID:** 00652
Authors: A I Tartakovskii, M N Makhonin, I R Sellers, J Cahill, A D Andreev, D M Whittaker, J P R Wells, A M Fox, D J Mowbray, M S Skolnick, K M Groom, M J Steer, H Y Liu and M Hopkinson
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Effect of thermal annealing and strain engineering on the fine structure of quantum dot excitons
(Planned) journal: : Physical Review B, Vol 70, Article 193303 (2004)
(Planned) date of publication: 2004
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-09
• **ID:** 00651
Authors: J Lutti, P M Smowton, G M Lewis, P Blood, A B Krysa, J C Lin, P A Houston, A J Ramsay and D J Mowbray
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Gain saturation in InP/GaInP quantum-dot lasers
(Planned) journal: Applied Physics Letters, Vol 86, Page 3 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-09
• **ID:** 00650
Authors: I R Sellers, H Y Liu, T J Badcock, D J Mowbray, M Gutierrez, M Hopkinson and M S Skolnick
Authors - SANDiE partners: P08 (University of Sheffield), P17 (University of Cadiz),
Title: Lasing and spontaneous emission characteristics of 1.3 μm In(Ga)As quantum-dot lasers
(Planned) journal: PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, Vol 26, Page 382 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-09
• **ID:** 00649
Authors: R Oulton, A I Tartakovskii, A Ebbens, J J Finley, D J Mowbray, M S Skolnick and M Hopkinson
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Anomalous Stark shifts in single vertically coupled pairs of InGaAs quantum dots
(Planned) journal: PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, Vol 26, Page 302 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-09
• **ID:** 00648
Authors: H Y Liu, T J Badcock, I R Sellers, W M Soong, K M Groom, M Hopkinson, D J Mowbray and M S Skolnick
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Enhanced photoluminescence intensity of 1.3- μm multi-layer InAs/InGaAs dots-in-well structure using the high growth temperature spacer layer step
(Planned) journal: : PHYSICA E-LOW-DIMENSIONAL SYSTEMS & NANOSTRUCTURES, Vol 26, Page 129 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-09
• **ID:** 00647
Authors: H Y Liu, M J Steer, T J Badcock, D J Mowbray, M S Skolnick, P Navaretti, K M Groom, M Hopkinson and R A Hogg
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Long-wavelength light emission and lasing from InAs/GaAs quantum dots covered by a GaAsSb strain-reducing layer
(Planned) journal: Applied Physics Letters, Vol 86, Article 143108 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-09
• **ID:** 00646
Authors: S K Ray, K M Groom, R A Hogg, H Y Liu, I R Sellers, M Hopkinson, T J Badcock, A J Ramsay, D J Mowbray and M S Skolnick
Authors - SANDiE partners: P08 (University of Sheffield)
Title: Growth, fabrication, and operating characteristics of ultra-low threshold current density 1.3 μm quantum dot lasers

(Planned) journal: JAPANESE JOURNAL OF APPLIED PHYSICS PART 1-REGULAR PAPERS SHORT NOTES & REVIEW PAPERS, Vol 44 Page 2520 (2005)

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2005-06-09

• **ID:** 00645

Authors: P. Wojnar, J. Suffczynski, K. Kowalik, A. Golnik, G. Karczewski, J.Kossut

Authors - SANDiE partners: A01 (Polish Academy of Sciences)

Title: Magnetic quantum dots containing only few Mn-ions

(Planned) journal: Applied Physics Letters

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: submitted

Submitted to Network Office: 2006-06-27

• **ID:** 00644

Authors: P. Wojnar, J. Suffczynski, K. Kowalik, A. Golnik, G. Karczewski, J.Kossut

Authors - SANDiE partners: A01 (Polish Academy of Sciences)

Title: "Photoluminescence from individual diluted magnetic quantum dot" event: 4th International Conference on Quantum Dots, QD2006

(Planned) event: 4th International Conference on Quantum Dots, QD2006

(Planned) date of presentation: 2006-05-03

Research paper in international journal? (y/n): n

Status: poster

Submitted to Network Office: 2006-06-27

• **ID:** 00643

Authors: P. Wojnar, J. Suffczynski, K. Kowalik, A. Golnik, G. Karczewski, J.Kossut

Authors - SANDiE partners: A01 (Polish Academy of Sciences)

Title: Magnetic polaron formation in CdMnTe self assembled quantum dots

(Planned) event: 28th International Conference on the Physics of Semiconductors, Vienna 2006

(Planned) date of presentation: 2006-07-25

Research paper in international journal? (y/n): n

Status: poster

Submitted to Network Office: 2006-06-27

• **ID:** 00642

Authors: P. Wojnar, J. Suffczynski, K. Kowalik, A. Golnik, G. Karczewski, J. Kossut

Authors - SANDiE partners: A01 (Polish Academy of Sciences)

Title: Size dependent magneto-optical effects in CdMnTe quantum dots

(Planned) event: XXXV International School on the Physics of Semiconducting Compounds, Jaszowiec 2006

(Planned) date of presentation: 2006-06-22

Research paper in international journal? (y/n): n

Status: poster

Submitted to Network Office: 2006-06-27

• **ID:** 00641

Authors: B. Alén, J. Martínez-Pastor, D. Granados, J. Garcia, and K. Karrai

Authors - SANDiE partners: P16 (U. Valencia), P22 (CSIC-Madrid)

Title: High resolution optical spectroscopy of single self-assembled quantum dots and rings

(Planned) event: 3rd NanoSpain Workshop (Pamplona, Spain)

(Planned) date of presentation: 2006-03-20 to 2006-03-23

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-06-23

• **ID:** 00640

Authors: J. A. Sans, A. Segura, J. Martínez-Pastor, L. González, Y. González

Authors - SANDiE partners: P16 (U. Valencia), P22 (CSIC-Madrid)

Title: Pressure dependence of photoluminescence of InAs/InP quantum wires

(Planned) event: IV Reunión Nacional de Física del Estado Sólido (Alicante, Spain)

(Planned) date of presentation: 2006-02

Research paper in international journal? (y/n): n

Status: poster

Submitted to Network Office: 2006-06-23

• **ID:** 00639

Authors: J. Gomis, G. Muñoz-Matutano, B. Alén, J. Martínez-Pastor, D. Granados, J. Garcia

Authors - SANDiE partners: P16 (U. Valencia), P22 (CSIC-Madrid)

Title: Dinámica excitónica en QD's (InGaAs/GaAs) modelizado bajo MEM's

(Planned) event: IV Reunión Nacional de Física del Estado Sólido (Alicante, Spain)

(Planned) date of presentation: 2006-02

Research paper in international journal? (y/n): n

Status: poster

Submitted to Network Office: 2006-06-23

• **ID:** 00638

Authors: N. Garro, J. A. Budagosky, A. Cros, and A. Cantarero, S. Founta, H. Mariette, and B. Daudin

Authors - SANDiE partners: P16 (U. Valencia)

Title: Polarization anisotropy of the emission of self-assembled GaN quantum dots grown on (11-20) SiC

(Planned) event: Workshop on Epitaxial Semiconductors on Patterned Substrates and Novel Index Surfaces -NIS2006- (Nottingham, England)

(Planned) date of presentation: 2006-04-03 to 2006-04-05

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-06-23

• **ID:** 00637

Authors: A. Cros, J. A. Budagosky, N. Garro, A. García-Cristóbal, A. Cantarero, S. Founta, H. Mariette, and B. Daudin

Authors - SANDiE partners: P16 (U. Valencia)

Title: Polar and non-polar Quantum Dots: Role of strain in the magnitude of the internal electric field and its influence in the optical properties of the nanostructures

(Planned) event: Reunión Nacional de Física del Estado Sólido (Alicante, Spain)

(Planned) date of presentation: 2006-02

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-06-23

• **ID:** 00636

Authors: J.A. Budagosky, J. M. Llorens, N. Garro, A. Cros, and A. García-Cristóbal

Authors - SANDiE partners: P16 (U. Valencia)

Title: Strain distribution and optical properties of GaN/AlN quantum dots grown along a non polar direction

(Planned) event: Trends in Nanotechnology 2005 (TNT05, Oviedo, Spain)

(Planned) date of presentation: 2005-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-06-23

• **ID:** 00635

Authors: A. Cros, J. A. Budagosky, N. Garro, A. García-Cristóbal, A. Cantarero, S. Founta, H. Mariette, and B. Daudin

Authors - SANDiE partners: P16 (U. Valencia)

Title: Role of strain in the reduction of the internal electric field in a-plane GaN/AlN quantum dots

(Planned) event: 6th International Conference on Nitride Semiconductors -ICNS6- (Bremen, Germany)

(Planned) date of presentation: 2005-08

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-06-23

• **ID:** 00634

Authors: T. Angelova, A. Cros, A. Cantarero, D. Fuster, Y. González, L. González

Authors - SANDiE partners: P16 (U. Valencia), P22 (CSIC-Madrid)

Title: Strain, atom intermixing and confined vibrations in vertically stacked InAs/InP quantum wires with variable spacer and variable size

(Planned) event: 28th International Conference Physics of Semiconductors (Vienna, Austria)

(Planned) date of presentation: 2006-07

Research paper in international journal? (y/n): n

Status: accepted

Submitted to Network Office: 2006-06-23

• **ID:** 00633

Authors: W. Ouerghui, J. Martinez-Pastor, J. Gomis, A. Melliti, M.A. Maaref, D. Granados and J. M Garcia

Authors - SANDiE partners: P16 (U. Valencia), P22 (CSIC-Madrid)

Title: Effect of carrier transfer in self-assembled In(Ga)As/GaAs quantum rings

(Planned) journal: Eur. Phys. J.: Appl. Phys. 35, 159-163 (2006)

(Planned) date of publication: 2006-06

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-23

• **ID:** 00632

Authors: A. Cros, J. A. Budagosky, A. García-Cristóbal, N. Garro, A. Cantarero, S. Founta, H. Mariette, and B. Daudin

Authors - SANDiE partners: P16 (U Valencia)

Title: Influence of strain in the reduction of the internal electric field in GaN/AlN quantum dots grown on a-plane 6H-SiC

(Planned) journal: Phys. Stat. Sol.(b)

(Planned) date of publication: 2006-06

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-23

• **ID:** 00631

Authors: N. Garro, A. Cros, J. M. Llorens, A. García-Cristóbal, A. Cantarero, N. Gogneau, E. Sarigiannidou, E. Monroy and B. Daudin

Authors - SANDiE partners: P16 (U Valencia)

Title: Resonant Raman scattering in self assembled GaN/AlN quantum dots

(Planned) journal: Physical Review B 74, 075305

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-23

• **ID:** 00630

Authors: V. Sallet, G. Patriarche, M.N. Merat-Combes, L. Largeau, O. Mauguin and L. Travers

Authors - SANDiE partners: P11 (LPN/CNRS)

Title: Structural and photoluminescence studies of InAsN quantum dots grown on GaAs by MBE

(Planned) journal: Journal of Crystal Growth

(Planned) date of publication: 2006-01-27

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-23

• **ID:** 00629

Authors: N.P. Stepina, A.I. Yakimov, A.V. Nenashev, A.V. Dvurechenskii, A.I. Nikiforov, Joaquim P. Leitão, Nikolai A. Sobolev, Maria

Celeste do Carmo

Authors - SANDiE partners: P15 (Univ. Aveiro)

Title: Effect of light illumination on the conductivity of tunnel-coupled Ge/Si quantum dots

(Planned) event: 28th Int. Conf. on Physics of Semiconductors (Vienna, Austria), AIP Conference Proceedings, Vol. 893 (2007) 811

(Planned) date of presentation: 2006-07-24 to 2006-07-28

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-06-21

• **ID:** 00628

Authors: A. Fonseca, N.A. Sobolev, J.P. Leitão, E. Alves, M.C. Carmo, N.D. Zakharov, P. Werner, A.A. Tonkikh, and E.G. Cirlin

Authors - SANDiE partners: P05 (MPI Halle), P15 (Univ. Aveiro), P26 (A. F. Ioffe Institute)

Title: Influence of defects on the optical and structural properties of Ge dots embedded in a Si/Ge superlattice

(Planned) journal: J. of Luminescence, Vol. 121 (2006) 417

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-21

• **ID:** 00627

Authors: Z. Zhong, H. Lichtenberger, G. Chen, M. Mühlberger, C. Schelling, J. Myslivecek, A. Halilovic, J. Stangl, G. Bauer, W. Jantsch and F. Schäffler

Authors - SANDiE partners: P18 (Uni Linz)

Title: Ordered SiGe islands on vicinal and pre-patterned Si(001) substrates

(Planned) journal: Microelectronic Engineering 83, 1730 (2006)

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-15

• **ID:** 00626

Authors: M. Simma, D. Lugovyy, T. Fromherz, A. Raab, G. Springholz, G. Bauer

Authors - SANDiE partners: P18 (Uni Linz)

Title: Deformation potentials and photo-response of strained PbSe quantum wells and quantum dots

(Planned) journal: Physica E 32, 123-126 (2006)

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-15

• **ID:** 00625

Authors: Z. Zhong, G. Katsaros M. Stoffel, G. Costantini, K. Kern, O. G. Schmidt, N.Y. Jin-Phillipp

Authors - SANDiE partners: P18 (Uni Linz), P23 (MPI Stuttgart)

Title: Periodic pillar structures formed by Si etching of multilayer GeSi/Si islands grown on a patterned Si(001) substrate

(Planned) journal: Appl. Phys. Lett. 87, 263102 (2005)

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-15

• **ID:** 00624

Authors: Z. Zhong, O. G. Schmidt, G. Bauer

Authors - SANDiE partners: P18 (Uni Linz), P23 (MPI Stuttgart)

Title: Increase of islands density via formation of secondary ordered islands on pit-patterned Si (001) substrates

(Planned) journal: Appl. Phys. Lett. 87, 133111 (2005)

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-15

• **ID:** 00623

Authors: M. Tcherynecheva, J.C. Harmand, G. Patriarche, L. Travers, G.E. Cirlin

Authors - SANDiE partners: P11 (CNRS/LPN), P26 (Ioffe Physico-Technical Institute)

Title: Growth and characterization of InAs and GaAs nanowires on GaAs (111)B substrate by molecular beam epitaxy

(Planned) event: Quantum dots conference 2006 (Chamonix, France, 1-5 May 2006)

(Planned) date of presentation: 2006-05-01

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-06-15

• **ID:** 00622

Authors: M. Tcherynecheva, J.C. Harmand, G. Patriarche, L. Travers, G.E. Cirlin

Authors - SANDiE partners: P11 (CNRS/LPN), P26 (Ioffe Physico-Technical Institute)

Title: Growth and characterization of GaAs and InAs nanowires by molecular beam epitaxy

(Planned) event: 14th International Symposium 'Nanostructures: Physics and technology' (St Petersburg, 26-30 June 2006)

(Planned) date of presentation: 2006-06-26 to 2006-06-30

Research paper in international journal? (y/n): n

Status: accepted

Submitted to Network Office: 2006-06-15

• **ID:** 00621

Authors: J.C. Harmand, M. Tcherynecheva, G. Patriarche, L. Travers and G.E. Cirlin

Authors - SANDiE partners: P11 (CNRS/LPN), P26 (Ioffe Physico-Technical Institute)

Title: Effect of growth temperature on GaAs nanowire formation by Au-assisted MBE

(Planned) event: International conference on molecular beam epitaxy 2006, September 3-8, 2006, Tokyo (Japan)

(Planned) date of presentation: 2006-09-03 to 2006-09-08

Research paper in international journal? (y/n): n

Status: accepted

Submitted to Network Office: 2006-06-15

• **ID:** 00620

Authors: M. Tcherynecheva, J.C. Harmand, G. Patriarche, L. Travers, G.E. Cirlin

Authors - SANDiE partners: P11 (CNRS/LPN), P26 (Ioffe Physico-Technical Institute)

Title: Temperature conditions for GaAs nanowire formation by Au-assisted molecular beam epitaxy

(Planned) journal: Nanotechnology

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: submitted

Submitted to Network Office: 2006-06-15

• **ID:** 00619

Authors: L. Ouattara, A. Mikkelsen, and E. Lundgren, L. Häöglund, C. Asplund, and J. Y. Andersson

Authors - SANDiE partners: P06 (Uni Lund)

Title: A cross-sectional scanning tunneling microscopy study of a quantum dot infrared photo-detector structure

(Planned) journal: Journal of Applied Physics

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: accepted

Submitted to Network Office: 2006-06-14

• **ID:** 00618

Authors: A. Mikkelsen, L. Ouattara, J. Eriksson, E. Hilner, E. Lundgren, N. Sköld, W. Seifert, L. Samuelson, T. Knaapen

Authors - SANDiE partners: P06 (Uni Lund), P07 (TU Eindhoven)

Title: Atomic Scale Structure and Growth of Nanowires and Nanowire Heterostructures

(Planned) event: 33rd Conference on the Physics and Chemistry of Semiconductor Interfaces (PCSI-33)

(Planned) date of presentation: 2006

Research paper in international journal? (y/n): n

Status: accepted

Submitted to Network Office: 2006-06-14

• **ID:** 00617

Authors: E. Hilner, A. Mikkelsen, J. Eriksson, E. Lundgren H. Yi, P. Kratzer

Authors - SANDiE partners: P06 (Uni Lund), P27(FHI Berlin)

Title: Au wetting of GaAs(111) studied on the atomic scale

(Planned) event: The American Physical Society March meeting 2006

(Planned) date of presentation: 2006-03

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-06-14

• **ID:** 00616

Authors: A. Mikkelsen, N. Sköld, L. Ouattara, E. Lundgren

Authors - SANDiE partners: P06 (Uni Lund)

Title: Nanowire growth and dopants studied by cross-sectional scanning tunnelling microscopy

(Planned) journal: Nanotechnology 17 No 11 (14 June 2006) S362-S368

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-14

• **ID:** 00615

Authors: Sébastien Sauvage

Authors - SANDiE partners: P13 (Uni Paris)

Title: Modélisation tridimensionnelle des états confinés des boîtes quantiques semi-conductrices et validation expérimentale

(Planned) event: Seminar Alcatel III-V Lab, Marcoussis

(Planned) date of presentation: 2006-02-28

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-06-13

• **ID:** 00614

Authors: Sébastien Sauvage

Authors - SANDiE partners: P13 (Uni Paris)

Title: Towards a mid-infrared polaron laser with InAs/GaAs self-assembled quantum dots

(Planned) event: Seminar Colloquium, University of Antwerp

(Planned) date of presentation: 2006-01-31

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-06-13

• **ID:** 00613

Authors: P. Offermans, P.M. Koenraad, J.H. Wolter, D. Granados, J.M. García, V.M. Fomin, V.N. Gladilin, J.T. Devreese

Authors - SANDiE partners: P03 (Uni Antwerpen), P07 (TU Eindhoven), P22 (CSIC, Madrid)

Title: Atomic-scale structure and formation of self-assembled In(Ga)As quantum rings

(Planned) journal: Physica E 32, 41-45 (2006)

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-13

• **ID:** 00612

Authors: N.A.J.M. Kleemans, I.M.A. Bominaar-Silkens, V.M. Fomin, V.N. Gladilin, D. Granados, A.G. Taboada, J.M. García, P. Offermans, U. Zeitler, P.C.M. Christianen, J.C. Maan, J.T. Devreese, J.H. Wolter, P.M. Koenraad
Authors - SANDiE partners: P03 (Uni Antwerpen), P07 (TU Eindhoven), P22 (CSIC, Madrid)
Title: "Oscillatory persistent currents in self-assembled quantum rings" (poster)
(Planned) event: 4th International Conference on Semiconductor Quantum Dots (QD 2006), Chamonix-Mont Blanc, France, Program and Abstracts, p. 249
(Planned) date of presentation: 2006-05-01 to 2006-05-06
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-13

• **ID:** 00611

Authors: P. Offermans, P.M. Koenraad, J.H. Wolter, D. Granados, J.M. García, V.M. Fomin, V.N. Gladilin, J.T. Devreese
Authors - SANDiE partners: P03 (Uni Antwerpen), P07 (TU Eindhoven), P22 (CSIC, Madrid)
Title: "Atomic-scale structure and formation of self-assembled In(Ga)As quantum rings" (invited lecture)
(Planned) event: 12th International Conference on Modulated Semiconductor Structures, July 10-15, 2005, Albuquerque, USA. Final Program and Abstract, TUE-C1.
(Planned) date of presentation: 2005-07-10 to 2005-07-15
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-13

• **ID:** 00610

Authors: B. Dagens, A. Martinez, J.-G. Provost, D. Make, O. Le Gouezigou, L. Ferlazzo, A. Lemaître, K. Merghem, A. Ramdane and B. Thedrez
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: High extinction ratio and high temperature 2.5Gb/s floor free 1.3 μm transmission with a directly modulated quantum-dot laser
(Planned) journal: IEEE Photon. Technology Letters, vol. 18, n°4, p. 589, 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-09

• **ID:** 00609

Authors: C. Gosset, K. Merghem, A. Martinez, G. Moreau, G. Patriarche, G. Aubin, J. Landreau, F. Lelarge and A. Ramdane
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Sub-Picosecond Pulse Generation at 134 GHz using a Quantum Dash-Based Fabry-Perot Laser Emitting at 1.56 μm
(Planned) event: OFC 2006, OThG1
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-09

• **ID:** 00608

Authors: A. Martinez, C. Gosset, K. Merghem, F. Lelarge, J. Landreau, G. Aubin, A. Ramdane
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Sub-Picosecond Pulse Generation at 1.56 μm Using a Mode-Locked Quantum Dot Laser
(Planned) event: ECOC 2005, Tu1.5.4
(Planned) date of presentation: 2005
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-09

• **ID:** 00607

Authors: K. Merghem, C. Gosset, A. Martinez, G. Moreau, G. Patriarche, G. Aubin, J. Landreau, F. Lelarge, A. Ramdane
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Sub-picosecond pulse generation at 134 GHz using a quantum dash Fabry-Perot Laser emitting at 1.56 μm
(Planned) event: IWSQDA 2006
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-09

• **ID:** 00606

Authors: G. Moreau, K. Merghem, A. Martinez, F. Lelarge, A. Ramdane
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Linewidth enhancement factor of high modal gain 9-layer InAs/InP Quantum Dash lasers emitting at 1.55 μm
(Planned) event: IWSQDA 2006
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-09

• **ID:** 00605

Authors: G. Moreau, K. Merghem, A. Martinez, F. Lelarge, A. Ramdane
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Low linewidth enhancement factor ($\alpha_H \sim 0.5$) of 9-layer InAs/InP Quantum Dash lasers emitting at 1.55 μm
(Planned) event: Indium Phosphide and Related Materials Conference 2006, TuA1.3
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-09

- **ID:** 00604
Authors: G. Moreau, K. Merghem, D. Cong, G. Patriarche, F. Lelarge, B. Rousseau, B. Dagens, F. Poingt, A. Accard, F. Pommereau, A. Ramdane
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: High modal gain 9- and 12- layers InAs/InP quantum dash lasers emitting at 1.55 μm
(Planned) event: Indium Phosphide and Related Materials Conference 2006, ThB1.4
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-09
- **ID:** 00603
Authors: A. Martinez, A. Lemaître, K. Merghem, L. Ferlazzo, C. Dupuis, A. Ramdane, J.-G. Provost, B. Dagens, and O. Le Gouezigou, O. Gauthier-Lafaye
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Static and dynamic measurements of the a-factor of five-quantum-dot-layer single-mode lasers emitting at 1.3 μm on GaAs
(Planned) journal: Applied Physics Letter 86, 211115
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-09
- **ID:** 00602
Authors: C. Gosset, K. Merghem, A. Martinez, G. Moreau, G. Patriarche, G. Aubin, J. Landreau, F. Lelarge and A. Ramdane
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Sub-picosecond pulse generation at 134 GHz using a quantum dot based Fabry-Perot laser emitting at 1.56 μm
(Planned) journal: Applied Physics Letter
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2006-06-09
- **ID:** 00601
Authors: C. Gosset, K. Merghem, G. Moreau, A. Martinez, G. Aubin, J.-L. Oudar, A. Ramdane, F. Lelarge
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Phase-amplitude Characterization of a high repetition rate Quantum Dash Passively Mode-Locked Laser
(Planned) journal: Optics Letters, Vol. 31 Issue 12 p.1848 (June 2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-09
- **ID:** 00600
Authors: D.-Y. Cong, A. Martinez, K. Merghem, A. Lemaître, A. Ramdane (1), J.-G. Provost, O. Le Gouezigou, M. Fischer, I. Krestnikov, A. Kovsh
Authors - SANDiE partners: P11 (LPN-CNRS), P28 (NL Nanosemiconductor)
Title: Microwave Properties of High Modal Gain Quantum Dot InAs/GaAs Fabry-Pérot Lasers Emitting at 1.3 μm
(Planned) event: ECOC 2006
(Planned) date of presentation: 2006
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2006-06-09
- **ID:** 00599
Authors: Gosset, C.; Merghem, K.; Martinez, A.; Moreau, G.; Patriarche, G.; Aubin, G.; Landreau, J.; Lelarge, F.; Ramdane, A
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Subpicosecond pulse generation at 134 GHz and low radiofrequency spectral linewidth in quantum dash-based fabry-perot lasers emitting at 1.5 μm
(Planned) journal: Electronics Letters, Volume 42, Issue 2, Page(s):91 - 92
(Planned) date of publication: 2006-01
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-09
- **ID:** 00598
Authors: E. PETER, P. SENELLART, D. MARTROU, A. LEMAÎTRE, J. HOURS, J.M. GÉRARD AND J. BLOCH
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Exciton photon strong coupling regime for a single quantum dot in a microcavity
(Planned) event: 4th international conference on Light-Matter Coupling in Nanostructures, Glasgow
(Planned) date of presentation: 2005-06-08 to 2005-06-11
(Planned) journal: phys. stat. sol. (c) 2, No. 11, 3825– 3828 (2005)
Research paper in international journal? (y/n): y
Status: presented, published
Submitted to Network Office: 2006-06-09
- **ID:** 00597
Authors: E. Peter, P. Senellart, J. Hours, A. Cavanna, and J. Bloch
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Spectral feature of short radiative lifetime quantum dot
(Planned) event: ICPS27, Flagstaff, USA
(Planned) date of presentation: 2004-07-26 to 2004-07-30
(Planned) journal: AIP Conf. Proc. 772, 707 (2005)
Research paper in international journal? (y/n): n

Status: presented, published
Submitted to Network Office: 2006-06-09
• **ID:** 00596
Authors: J. HOURS, P. SENELLART, A. CAVANNA, E. PETER, J.M. GÉRARD AND J. BLOCH
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Short radiative lifetime of single GaAs quantum dots
(Planned) event: ICPS27, Flagstaff, USA
(Planned) date of presentation: 2004-07-26 to 2004-07-30
(Planned) journal: AIP Conference Proceedings 772 (2005)
Research paper in international journal? (y/n): n
Status: presented, published
Submitted to Network Office: 2006-06-09
• **ID:** 00595
Authors: P. SENELLART, E. PETER, J. HOURS, A. CAVANNA, J. BLOCH
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Few particle effects in the emission of short radiative lifetime single quantum dots
(Planned) journal: Phys. Rev. B 72, 115302 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-09
• **ID:** 00594
Authors: J. Hours, P. Senellart, E. Peter, A. Cavanna, J. Bloch
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Exciton radiative lifetime controlled by the lateral confinement energy in a single quantum dot
(Planned) journal: Phys. Rev. B 71, 161306(R) (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-09
• **ID:** 00593
Authors: E. Peter, P. Senellart, D. Martrou, A. Lemaître, J. Hours, J. M. Gérard, J. Bloch
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Exciton-Photon Strong-Coupling Regime for a Single Quantum Dot Embedded in a Microcavity
(Planned) journal: Phys. Rev. Lett. 95, 067401 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-09
• **ID:** 00592
Authors: E. Peter, I. Sagnes, G. Guirleo, S. Varoutsis, J. Bloch, A. Lemaître, P. Senellart
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: High-Q whispering-gallery mode in GaAs/AlOx microdisks
(Planned) journal: Appl. Phys. Lett. 86, 021103 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-09
• **ID:** 00591
Authors: Sauvage S., Boucaud P., Bras F., Kammerer C., Fishman G., Ortéga J.-M., Gérard J.-M., Lemaître A., Patriarche G.
Authors - SANDiE partners: P13 (Uni Paris), P11 (CNRS/LPN)
Title: "Polaron spectroscopy and dynamics"
(Planned) event: Conférence invitée, One Day Quantum Dot Meeting, Nottingham, UK
(Planned) date of presentation: 2005-04-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-09
• **ID:** 00590
Authors: S. Sauvage, C. Kammerer, G. Fishman, P. Boucaud, G. Patriarche, A. Lemaître
Authors - SANDiE partners: P13 (Uni Paris), P11 (CNRS/LPN)
Title: "Intersublevel absorption spectroscopy compared with 8 band k.p calculation and structural characterization of vertically electronically coupled InAs/GaAs quantum dots"
(Planned) event: Sandie workshop, characterization and modeling of self-assembled nanostructures, Eindhoven University of Technology
(Planned) date of presentation: 2005-11-24 to 2005-11-25
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-09
• **ID:** 00589
Authors: S. Sauvage, P. Boucaud, F. Bras, G. Fishman, C. Kammerer, J.-M. Ortéga, J.-M. Gérard, A. Lemaître, G. Patriarche
Authors - SANDiE partners: P13 (Uni Paris), P11 (CNRS/LPN)
Title: Midinfrared polaron laser with InAs/GaAs self-assembled quantum dots
(Planned) event: Sandie International Workshop on Semiconductor quantum dot based devices and applications, Institut Curie, Paris
(Planned) date of presentation: 2006-03-16 to 2006-03-17
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-09

- **ID:** 00588
Authors: Philippe Boucaud, Sébastien Sauvage, Guy Fishman, Jean-Michel Gérard, Aristide Lemaître, Jean-Michel Ortéga
Authors - SANDiE partners: P13 (Uni Paris)
Title: Infrared properties of InAs/GaAs self-assembled quantum dots as studied with the free-electron laser CLIO
(Planned) event: Indo-French workshop on free-electron lasers and their applications, Goa (India)
(Planned) date of presentation: 2006-03-20 to 2006-03-24
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-09
- **ID:** 00587
Authors: S. Sauvage, P. Boucaud, F. Bras, C. Kammerer, J. Houel, G. Fishman, J.-M. Ortéga, J.-M. Gérard, G. Patriarche, A. Lemaître
Authors - SANDiE partners: P13 (Uni Paris), P11 (CNRS/LPN)
Title: "Mid-infrared polaron laser with InAs/GaAs self-assembled quantum dots"
(Planned) event: ICSSN 2006 - satellite conference 28th International Conference of Physics of semiconductors (ICPS) , Istanbul
(Planned) date of presentation: 2006-07-31 to 2006-08-05
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-06-09
- **ID:** 00586
Authors: M. El Kurdi, S. Sauvage, G. Fishman, P. Boucaud
Authors - SANDiE partners: P13 (Uni Paris)
Title: "Band-edge alignment of SiGe heterostructures calculated with a 30 band k.p formalism"
(Planned) event: 28th International Conference of Physics of semiconductors (ICPS), Vienne
(Planned) date of presentation: 2006-07-24 to 2006-07-28
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-06-09
- **ID:** 00585
Authors: S. Sauvage, P. Boucaud, F. Bras, C. Kammerer, J. Houel, G. Fishman, J.-M. Ortéga, J.-M. Gérard, G. Patriarche, A. Lemaître
Authors - SANDiE partners: P13 (Uni Paris), P11 (CNRS/LPN)
Title: "Mid-infrared polaron laser with InAs/GaAs self-assembled quantum dots"
(Planned) event: 28th International Conference of Physics of semiconductors (ICPS), Vienne
(Planned) date of presentation: 2006-07-24 to 2006-07-28
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-06-09
- **ID:** 00584
Authors: X. Li, P. Boucaud, X. Checoury, M. El Kurdi, S. David, S. Sauvage, N. Yam, F. Fossard, D. Bouchier, J. M. Fédéli, V. Calvo, E. Hadji
Authors - SANDiE partners: P13 (Uni Paris)
Title: Si-based two-dimensional photonic crystals coupled to one-dimensional Bragg mirrors
(Planned) journal: E-MRS 2006, Nice, 2006-05-29 to 2006-06-02, Journal of luminescence 121, 286-289 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: presented, published
Submitted to Network Office: 2006-06-09
- **ID:** 00583
Authors: T.K. Nguyen-Duc, V. Le Thanh, J. Derrien, P. Boucaud, D. Bouchier
Authors - SANDiE partners: P13 (Uni Paris)
Title: "Effect of thermal annealing on the optical properties of self-assembled Ge/Si quantum dots"
(Planned) journal: 10th International conference on the formation of semiconductor interfaces ICFSI-10 Aix en provence, 2005-07-03 to 2005-07-08 , Journal de physique IV 132, 163-170 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: presented, published
Submitted to Network Office: 2006-06-09
- **ID:** 00582
Authors: X. Li, X. Checoury, M. El Kurdi, S. David, P. Boucaud, O. Kermarrec, Y. Campidelli, D. Bensahel
Authors - SANDiE partners: P13 (Uni Paris)
Title: "SOI-based photonic crystals investigated by Ge/Si self-assembled islands photoluminescence"
(Planned) journal: Second international conference Group IV Photonics Anvers, 2005-09-21 to 2005-09-23, Proceedings on Cd-rom IEEE catalog number 05EX1053C, ISBN : 0-7803-9071-7
(Planned) date of publication: 2006
Research paper in international journal? (y/n): n
Status: presented, published
Submitted to Network Office: 2006-06-09
- **ID:** 00581
Authors: X. Li, P. Boucaud, X. Checoury, M. El Kurdi, S. David, S. Sauvage, N. Yam, F. Fossard, D. Bouchier, J. M. Fédéli, V. Calvo, E. Hadji
Authors - SANDiE partners: P13 (Uni Paris)
Title: "Two-dimensional photonic crystals coupled to one-dimensional Bragg mirrors"
(Planned) journal: IEEE Journal of Selected Topics in Quantum Electronics, vol. 12, no 6, 1534-1538 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-09

- **ID:** 00580
Authors: L. Seravalli, P. Frigeri, P. Allegri, V. Avanzini and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Metamorphic Quantum Dot Nanostructures For Long Wavelength Operation With Improved Emission Efficiency
(Planned) journal: Materials Science and Engineering C 27, 1046 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2006-06-08
- **ID:** 00579
Authors: G. Trevisi, P. Frigeri, M. Minelli, C. Bocchi, P. Allegri, V. Avanzini and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: InGaAs/AlGaAs quantum dot nanostructures for 980 nm operation
(Planned) journal: Journal of Electronic Materials, 37, 937 (2008)
(Planned) date of publication: 2008
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-08
- **ID:** 00578
Authors: C. Bocchi, F. Germini, L. Nasi, L. Seravalli, P. Frigeri, G. Trevisi and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM, Parma)
Title: Metamorphic structures for strain engineering
(Planned) event: XCII Meeting of the Italian Physical Society, Turin
(Planned) date of presentation: 2006-09-18 to 2006-09-23
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-08
- **ID:** 00577
Authors: L. Seravalli, P. Frigeri, P. Allegri, V. Avanzini and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM, Parma)
Title: Strain engineering of metamorphic quantum dot nanostructures for long wavelength emission
(Planned) event: XCII Meeting of the Italian Physical Society, Turin
(Planned) date of presentation: 2006-09-18 to 2006-09-23
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-08
- **ID:** 00576
Authors: G. Trevisi, P. Frigeri, M. Minelli, P. Allegri, V. Avanzini and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM, Parma)
Title: Engineering of quantum dot nanostructures for 980 nm operation
(Planned) event: XCII Meeting of the Italian Physical Society, Turin
(Planned) date of presentation: 2006-09-18 to 2006-09-23
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-08
- **ID:** 00575
Authors: M. Prezioso, L. Nasi, E. Gombia, R. Mosca, P. Frigeri, L. Seravalli, G. Trevisi and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM, Parma)
Title: Investigation of electrically active defects in GaAs/InAs/GaAs QDs structures by DLTS and TEM
(Planned) event: XCII Meeting of the Italian Physical Society, Turin
(Planned) date of presentation: 2006-09-18 to 2006-09-23
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-08
- **ID:** 00574
Authors: M. Prezioso, E. Gombia, R. Mosca, L. Nasi, P. Frigeri, G. Trevisi, L. Seravalli, S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Study of electrically active defects in GaAs/InAs/GaAs QD structures by DLTS and TEM
(Planned) event: 6th International Conference on Advanced Semiconductor Devices and Microsystems (ASDAM), Smolenice (Slovakia); (2006) Proceedings of 6th International Conference on Advanced Semiconductor Devices and Microsystems, page 237, IEEE Catalog Number 06EX1383, ISBN 1-4244-0396-0
(Planned) date of publication: 2006
Research paper in international journal? (y/n): n
Status: presented, published
Submitted to Network Office: 2006-06-08
- **ID:** 00573
Authors: C. Bocchi, J. Morrod, F. Germini, L. Nasi, G. Calestani, K.A. Prior
Authors - SANDiE partners: P14 (CNR-IMEM) and P10 (Heriot-Watt University)
Title: MgS/ZnSe/GaAs structures characterisation by high resolution X-ray diffraction, topography and reflectivity methods
(Planned) event: 8th Biennial Conference on High Resolution X-Ray Diffraction and Imaging (XTOP 2006), Karlsruhe/Baden-Baden
(Planned) date of presentation: 2006-09-19 to 2006-09-22
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-08
- **ID:** 00572
Authors: L. Seravalli, G. Trevisi, P. Frigeri and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)

Title: Self-assembled zero-dimensional semiconductor nanostructures
(Planned) book: "Current Issues in Crystal Growth from the Vapour", Vol. 38, pages 169-193, S Carrà and C Paorici eds., Accademia dei Lincei, Rome
(Planned) date of publication: 2007
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2006-06-08
• ID: 00571
Authors: L. Seravalli, M. Minelli, P. Frigeri and S. Franchi, G. Guizzetti, M. Patrini, T. Ciabattoni and M. Geddo
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Quantum dot strain engineering of InAs/InGaAs nanostructures
(Planned) journal: J Appl Phys 101 024313 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-08
• ID: 00570
Authors: S. Laurent, S. Varoutsis, L. Le Gratiè, A. Lemaître, I.Sagnes, I. Robert-Philip and I. Abram
Authors - SANDiE partners: P11 (LPN, CNRS)
Title: Indistinguishable single photons from a single quantum dot isolated in a photonic crystal cavity
(Planned) event: 357. Wilhelm und Else Heraeus-Seminar, "The Photon: Generation, Detection, and Application" in Bad Honnef (Germany)
(Planned) date of presentation: 2005-11-06 to 2005-11-11
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-07
• ID: 00569
Authors: S. Laurent, R. Braive, S. Varoutsis, I. Sagnes, L. Le Gratiè, A. Lemaître, I. Abram and I. Robert-Philip
Authors - SANDiE partners: P11 (LPN, CNRS)
Title: Tailoring quantum dot emission through cavity effects for quantum information processing
(Planned) event: International Workshop on Semiconductor quantum dot based devices and applications in Paris (France)
(Planned) date of presentation: 2006-03-13 to 2006-03-17
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-07
• ID: 00568
Authors: S. Laurent, R. Braive, L. Le Gratiè, A. Lemaître, I.Sagnes, A. Beveratos, I. Robert-Philip and I. Abram
Authors - SANDiE partners: P11 (LPN, CNRS)
Title: Tailoring quantum dot emission through cavity effects for quantum information processing
(Planned) event: Fourth International Conference on Quantum Dots in Chamonix (France)
(Planned) date of presentation: 2006-04-30 to 2006-05-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-06-07
• ID: 00567
Authors: I. Robert-Philip
Authors - SANDiE partners: P11 (LPN, CNRS)
Title: Quantum optics and Nanosciences
(Planned) event: European Summer University on The Challenge of Quantum Mechanics in Strasbourg (France)
(Planned) date of presentation: 2005-07-09
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-06-07
• ID: 00566
Authors: F. Glas and G. Patriarche
Authors - SANDiE partners: P11 (LPN, CNRS)
Title: Strain relaxation for controlled nanostructure geometry: from growth-organizing dislocation networks to nanowhiskers
(Planned) event: 14th International Symposium 'Nanostructures: Physics and technology' (St Petersburg, 26-30 June 2006)
(Planned) date of presentation: 2006-06-26
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-06-07
• ID: 00565
Authors: F. Glas
Authors - SANDiE partners: P11 (LPN, CNRS)
Title: Critical dimensions for the plastic relaxation of strained axial heterostructures in free-standing nanowires
(Planned) journal: Phys. Rev. B (Rapid communications) 74, 121302(R) (2006)
(Planned) date of publication: 2006-09-07
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-06-07
• ID: 00564
Authors: V. G. Talalaev, N. D. Zakharov, P. Werner, and U. Gösele, J. W. Tomm, A. S. Sokolov, I. V. Shtrom, and B. V. Novikov, A. Winzer, R. Goldhahn, and G. Gobsch, G. E. Cirlin, A. A. Tonkikh, and V. M. Ustinov, G. G. Tarasov
Authors - SANDiE partners: P5 (MPI Halle), P26 (Ioffe, St. Petersburg)
Title: Tuning of the inter-dot resonance in stacked InAs quantum dot arrays by an external electric field
(Planned) journal: J. Appl. Physics
(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: accepted

Submitted to Network Office: 2006-06-07

• **ID:** 00563

Authors: N.Zakharov, P.Werner, G.Gerth, L.Schubert, L.Sokolov, U.Gösele,

Authors - SANDiE partners: P05 (MPI Halle)

Title: TEM investigation of Si/Ge multilayer structure incorporated into MBE grown Si whiskers

(Planned) journal: "Microscopy of Semiconducting Materials" Proceedings of the 14th Conference, April 11-14, 2005, Oxford, UK, Eds. A.G.Gullis and J.L.Hutchison, Springer, Page 103-106

(Planned) date of publication: 2006

Research paper in international journal? (y/n): n

Status: published

Submitted to Network Office: 2006-06-07

• **ID:** 00562

Authors: N.D.Zakharov, P.Werner, G.Gerth, L.Schubert, L.Sokolov, U.Gösele

Authors - SANDiE partners: P05 (MPI Halle)

Title: Growth phenomena of Si and Si/Ge nanowires on Si (1 1 1) by molecular beam epitaxy

(Planned) journal: Journal of Crystal Growth 290 (2006) 6-10

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-06-07

• **ID:** 00560

Authors: M. Grundmann

Authors - SANDiE partners: P01 (Uni Leipzig)

Title: Erfolgreiche Koordination von EU-Projekten - Erfahrungen aus der Koordination eines Networks of Excellence (NoE) in den Nanowissenschaften

(Planned) event: Informationsveranstaltung zu FP7, Berlin, Germany

(Planned) date of presentation: 2006-06-08

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-06-05

• **ID:** 00559

Authors: S. A. Blokhin, N. A. Maleev, A. G. Kuzmenkov, A. V. Sakharov, Yu. M. Shernyakov, I. I. Novikov, M. V. Maximov, V. M. Ustinov, A. R. Kovsh, S. S. Mikhlin, N. N. Ledentsov, G. Lin, J. Y. Chi

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P28 (NL Nanosemiconductor)

Title: High-power single-mode vertical-cavity surface-emitting lasers based on sub-monolayer InGaAs quantum dots

(Planned) event: International Workshop on semiconductor quantum dot based devices and applications (IWSQDA 2006), PARIS, France

(Planned) date of presentation: 2006-03-16 to 2006-03-17

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-05-31

• **ID:** 00558

Authors: S.A. Blokhin, N.A. Maleev, A.G. Kuzmenkov, A.V. Sakharov, M.M.Kulagina, Yu.M. Shernyakov, I.I. Novikov, M.V. Maximov, V.M. Ustinov, A.R. Kovsh, S. S. Mikhlin, N.N. Ledentsov, G. Lin, J.Y. Chi

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P28 (NL Nanosemiconductor)

Title: High-performance of vertical-cavity surface-emitting lasers based on sub-monolayer InGaAs quantum dots

(Planned) journal: Appl. Phys. Lett.

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: submitted

Submitted to Network Office: 2006-05-31

• **ID:** 00557

Authors: A. Gubenko, D. Livshits, I. Krestnikov, S. Mikhlin, A. Kozhukhov, A. Kovsh, N. Ledentsov, A. Zhukov and E. Portnoi

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg)

Title: High-power monolithic passively modelocked quantum-dot laser

(Planned) journal: Electron. Lett. 41(20), 1124-1125 (2005)

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-05-31

• **ID:** 00556

Authors: L. Ya. Karachinsky, I. I. Novikov, T. Kettler, N. Yu. Gordeev, M. V. Maximov, Yu. M. Shernyakov, N. V. Kryzhanovskaya, A. E. Zhukov, E. S. Semenova, A. P. Vasilev, V. M. Ustinov, G. Fiol, M. Kuntz, K. Posilovic, A. Lochmann, O. Schulz, L. Reissmann, A. R. Kovsh, S. S. Mikhlin, V. A. Shchukin, N. N. Ledentsov, and D. Bimberg

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin), P28 (NL Nanosemiconductor)

Title: Competition of different recombination channels in metamorphic 1.5 μm range quantum dot lasers on GaAs substrate

(Planned) event: 28th Int. Conf. Pys. Semicond (ICPS 2006), Vienna, Austria

(Planned) date of presentation: 2006-07-24 to 2006-07-28

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-05-31

• **ID:** 00555

Authors: T. Kettler, L. Ya. Karachinsky, G. Fiol, M. Kuntz, A. Lochmann, O. Schulz, L. Reissmann, K. Posilovic, D. Bimberg, I. I.

Novikov, Yu. M. Shernyakov, N. Yu. Gordeev, M. V. Maximov, N. V. Kryzhanovskaya, A. E. Zhukov, E. S. Semenova, A. P. Vasil'ev, V.

M. Ustinov, A. R. Kovsh, V. A. Shchukin, N. N. Ledentsov

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin), P28 (NL Nanosemiconductor)

Title: Degradation-Robust Single Mode CW Operation of 1.5 μm Metamorphic Quantum Dot Lasers on GaAs Substrate
(Planned) journal: Appl. Phys. Lett. 89, (2006) 041113
(Planned) date of publication: 2006-07-26
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-05-31
• ID: 00554
Authors: N. V. Kryzhanovskaya, S. A. Blokhin, A. G. Gladyshev, N. A. Maleev, A. G. Kuzmenkov, E. M. Arakcheeva, E. M. Tanklevskaya, A. E. Zhukov, A. P. Vasil'ev, E. S. Semenova, M. V. Maximov, N. N. Ledetsov, V. M. Ustinov, E. Stock and D. Bimberg
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin), P28 (NL Nanosemiconductor)
Title: Room temperature lasing at 1.3 μm in microdisk with quantum dots
(Planned) event: International Workshop on semiconductor quantum dot based devices and applications (IWSQDA 2006), PARIS, France
(Planned) date of presentation: 2006-03-16 to 2006-03-17
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-05-31
• ID: 00553
Authors: N. V. Kryzhanovskaya, P. Zimmer, N. N. Ledentsov, A. Hoffmann, D. Bimberg, A. R. Kovsh, S. S. Mikhlin, V. A. Shchukin, L. Ya. Karachinsky and M. V. Maximov
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin), P28 (NL Nanosemiconductor)
Title: Engineering of the radiative recombination rate in quantum dots coupled to the tilted cavity waveguide mode
(Planned) journal: Semiconductor Science and Technology, 21, 162-166, 2006
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-05-31
• ID: 00552
Authors: A.G. Gladyshev, N.V. Kryzhanovskaya, A.M. Nadochay, E.S. Semenova, A.E. Zhukov, A.P. Vasil'ev, V.S. Mikhlin, Yu.G. Musikhin, M.V. Maximov, N.N. Ledentsov, V.M. Ustinov
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P28 (NL Nanosemiconductor)
Title: Comparative study of GaAs-based 1.5 micron-range, InAs/InGaAs and InAs/InAlAs self-assembled quantum dots
(Planned) journal: phys. stat. sol. (a), 203(6), 1359-1364 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-05-31
• ID: 00551
Authors: I. Krestnikov, D. Livshits, S. Mikhlin, A. Kozhukhov, A. Kovsh, N. Ledentsov, and A. Zhukov
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg)
Title: Reliability study of InAs/InGaAs quantum-dot diode lasers
(Planned) journal: Electron. Lett. 41(24), pp. 1330-1331 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-05-31
• ID: 00550
Authors: Gang Chen, H. Lichtenberger, G. Bauer, W. Jantsch, F. Schaffler
Authors - SANDiE partners: P18 (Uni Linz)
Title: Initial stage of the two-dimensional to three-dimensional transition of a strained SiGe layer on a pit-patterned Si(001) template
(Planned) journal: Phys.Rev.B 74 035302-1/8 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-05-28
• ID: 00549
Authors: Teresa Ben, David L. Sales, Pedro Galindo, María Varela, Stephen J. Pennycook, David Fuster, Yolanda González, Luisa González and Sergio I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz), P22 (CSIC, Madrid)
Title: Influence of the Growth Temperature on the Stacking of InAs/InP (001) Quantum Wires Grown by Molecular Beam Epitaxy
(Planned) event: 16th International Microscopy Congress
(Planned) date of presentation: 2006-08
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-05-22
• ID: 00548
Authors: T. Nuytten, M. Hayne, H.Y. Liu, M. Hopkinson and V. V. Moshchalkov
Authors - SANDiE partners: P02 (KU Leuven), P08 (Uni Sheffield)
Title: Magneto-optical Properties of InxGa1-xAs1-yNy Nanostructures
(Planned) journal: UK Compound Semiconductors 2006
(Planned) date of publication: 2006-07-05
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2006-05-19
• ID: 00547
Authors: T. Ben, P. Galindo, A.G. Taboada, D. Granados, J. M. García and S. I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz), P22 (CSIC, Madrid)
Title: Morphology, spatial distribution and strain field in InAs/GaAs(001) stacked quantum rings structures

(Planned) event: 16th International Microscopy Congress
(Planned) date of presentation: 2006-08
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-05-12

- **ID:** 00546
Authors: D.L. Sales, A.M. Sanchez, R. Beanland, S.I. Molina and M. Henini
Authors - SANDiE partners: P17 (Uni Cadiz), P19 (Bookham), P09 (Uni Nottingham)
Title: Effect of growth interruption on InAs quantum dots over (311)B GaAs
(Planned) event: 8th International Workshop on Expert Evaluation & Control of Compound Semiconductor Materials & Technologies
(Planned) date of presentation: 2006-05-14
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-05-12
- **ID:** 00545
Authors: E. Guerrero, P. L. Galindo, A. Yáñez, J.Pizarro, T. Ben and S. I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: Error Quantification of Strain Mapping Techniques
(Planned) event: 8th International Workshop on Expert Evaluation & Control of Compound Semiconductor Materials & Technologies
(Planned) date of presentation: 2006-05-14
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-05-11
- **ID:** 00544
Authors: W. Wiczorek, T. Warming, M. Geller, D. Bimberg, G.E. Cirlin, A.E. Zhukov, V.M. Ustinov
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)
Title: Charge and spin storage in self-organized quantum dots
(Planned) journal: Appl. Phys. Lett. 88, 182107-1 to 182107-3
(Planned) date of publication: 2006-05-04
Research paper in international journal? (y/n): n
Status: published (online)
Submitted to Network Office: 2006-05-09
- **ID:** 00543
Authors: C. Meuer, M. Laemmlin, G. Fiol, M. Kuntz, N.N. Ledentsov, A.R. Kovsh, S. Ferber, C. Schubert, A. Steffan, A. Umbach and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)
Title: High Frequency Signal Amplification using Quantum Dot Semiconductor Optical Amplifiers at 1.3 μm
(Planned) event: Europ. Conf. on Optical Communication (ECOC 2006), Cannes, France, September 24-28, 2006
(Planned) date of presentation: 2006-09-24 to 2006-09-28
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-05-09
- **ID:** 00542
Authors: Till Warming, Witlef Wiczorek, Martin P. Geller, Dieter Bimberg, Georgii E. Cirlin, Alexei E. Zhukov, and Victor M. Ustinov
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)
Title: Spin storage and readout in self-organized quantum dots
(Planned) event: 28th Int. Conf. on the Physics of Semiconductors, Vienna, Austria, July 24-28, 2006
(Planned) date of presentation: 2006-07-24 to 2006-07-28
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-05-09
- **ID:** 00541
Authors: Andreas Marent, Martin Geller, Alexey P. Vasiev, Elisaveta S. Semenova, Alexey E. Zhukov, Victor M. Ustinov, and Dieter Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)
Title: DRAM storage time of milliseconds demonstrated in self-organized quantum dots
(Planned) event: 28th Int. Conf. on the Physics of Semiconductors, Vienna, Austria, July 24-28, 2006
(Planned) date of presentation: 2006-07-24 to 2006-07-28
Research paper in international journal? (y/n): n
Status: poster
Submitted to Network Office: 2006-05-09
- **ID:** 00540
Authors: M. Lämmlin, G. Fiol, Ch. Meuer, M. Kuntz, F. Hopfer, N.N. Ledentsov, A. Kovsh, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)
Title: Self-organized quantum dots for 1.3 μm photonic devices
(Planned) event: Workshop on Photonic Components for Broadband Communication (EOC 06), Stockholm, Sweden, June 28-29, 2006
(Planned) date of presentation: 2006-06-28 to 2006-06-29
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-05-09
- **ID:** 00539
Authors: V.A. Shchukin, N.N. Ledentsov, N.Yu. Gordeev, L.Ya. Karachinsky, I.I. Novikov, Yu.M. Shernyakov, I.P. Soshnikov, M.V. Maximov, A. Sharon, T. Kettler, K. Posilovic, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)
Title: High brilliance photonic bandgap crystal lasers (invited talk)
(Planned) event: Workshop on Photonic Components for Broadband Communication (EOC 06), Stockholm, Sweden, June 28-29, 2006
(Planned) date of presentation: 2006-06-28 to 2006-06-29

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-05-09

• **ID:** 00538

Authors: : F. Hopfer, A. Mutig, G. Fiol, M. Kuntz, S.S. Mikhlin, I.L. Krestnikov, D.A. Livshits, A.R. Kovsh, C. Bornholdt, V. Shchukin, N.N. Ledentsov and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)

Title: 20 Gb/s direct modulation of 980 nm VCSELs Based on Submonolayer Deposition of Quantum Dots (invited talk)

(Planned) event: Workshop on Photonic Components for Broadband Communication (EOC 06), Stockholm, Sweden, June 28-29, 2006

(Planned) date of presentation: 2006-06-28 to 2006-06-29

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-05-09

• **ID:** 00537

Authors: : D. Bimberg, M. Laemmlin, C. Meuer, G. Fiol, M. Kuntz, A. Schliwa, N.N. Ledentsov, A.R. Kovsh

Authors - SANDiE partners: P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)

Title: Quantum Dot Amplifiers for 100 Gbit Ethernet (invited talk)

(Planned) event: 8th Int. Conf. on Transparent Optical Networks (ICTON 2006), Nottingham, UK, June 18-22, 2006

(Planned) date of presentation: 2006-06-18 to 2006-06-22

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-05-09

• **ID:** 00536

Authors: A. Strittmatter, T. D. Germann, Th. Kettler, K. Posilovic, U. W. Pohl, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: MOCVD of InGaAs/GaAs quantum dots for lasers emitting at 1.25 μm

(Planned) event: 13th Int. Conf. on Metal Organic Vapor Phase Epitaxy (ICMOVPE XIII), Miyazaki, Japan, May 22-26, 2006

(Planned) date of presentation: 2006-05-26

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-05-09

• **ID:** 00535

Authors: Konstantin Pötschke, Udo W. Pohl, David Feise, and Dieter Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Epitaxy of multimodal InAs/GaAs quantum dot ensembles

(Planned) event: 13th Int. Conf. on Metal Organic Vapor Phase Epitaxy (ICMOVPE XIII), Miyazaki, Japan, May 22-26, 2006

(Planned) journal: Journal of Crystal Growth 298, (2007) p. 567-569

(Planned) date of presentation: 2006-05-23

Research paper in international journal? (y/n): y

Status: presented, published

Submitted to Network Office: 2006-05-09

• **ID:** 00534

Authors: M. Laemmlin, G. Fiol, M. Kuntz, F. Hopfer and D. Bimberg, A.R. Kovsh and N.N. Ledentsov

Authors - SANDiE partners: P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)

Title: Dynamical Properties of Quantum Dot Semiconductor Optical Amplifiers at 1.3 μm Fiber-Coupled to Quantum Dot Mode-Locked Lasers

(Planned) event: Conf. on Lasers and Electro-Optics / Quantum Electronics and Laser Science Conf. CLEO/QELS, Long Beach, CA, USA, May 22-25, 2006

(Planned) date of presentation: 2006-05-25

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-05-09

• **ID:** 00533

Authors: J. Maes, M. Hayne, D. Fuster, Y. González, L. González, and V.V. Moshchalkov

Authors - SANDiE partners: P02(KU Leuven), P22 (CSIC Madrid), (Uni Lancaster)

Title: Charge Confinement in InAs/InP Quantum Wires and Wells

(Planned) event: UK Compound Semiconductors 2006

(Planned) date of presentation: 2006-07-05 to 2006-07-06

Research paper in international journal? (y/n): n

Status: submitted

Submitted to Network Office: 2006-05-08

• **ID:** 00532

Authors: M. Hayne, C. Cornet, J. Even, C. Labbé, H. Folliot, V.V. Moshchalkov and S. Lualiche

Authors - SANDiE partners: P02(KU Leuven), P12 (INSA-LENS), (Uni Lancaster)

Title: Charge-Carrier Redistribution in Ordered Arrays of Laterally- Coupled Self-assembled InAs/InP Quantum Dots

(Planned) event: UK Compound Semiconductors 2006

(Planned) date of presentation: 2006-07-05 to 2006-07-06

Research paper in international journal? (y/n): n

Status: submitted

Submitted to Network Office: 2006-05-08

• **ID:** 00531

Authors: Y. Sidor, B. Partoens, F. M. Peeters, N. Schildermans, M. Hayne, V. V. Moshchalkov, A. Rastelli and O. G. Schmidt

Authors - SANDiE partners: P03 (Uni Antwerpen), P02(KU Leuven), P23 (MPI Stuttgart), (Uni Lancaster)

Title: Magneto-excitons in Unstrained GaAs/Al_xGa_{1-x}As Quantum Dots at Very High Fields

(Planned) event: UK Compound Semiconductors 2006

(Planned) date of presentation: 2006-07-05 to 2006-07-06

Research paper in international journal? (y/n): n

Status: submitted
Submitted to Network Office: 2006-05-08
• **ID:** 00530
Authors: D.L. Sales, A.M. Sanchez, R. Beanland, M. Henini and S.I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz), P19 (Bookham), P09 (Uni Nottingham)
Title: A TEM study of the evolution of InAs/GaAs self-assembled dots on (311)B GaAs with a growth interruption
(Planned) journal: SEMICONDUCTOR SCIENCE AND TECHNOLOGY, 22 (168-170)
(Planned) date of publication: 2007-01-09
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-05-05
• **ID:** 00529
Authors: D. L. Sales, R. Beanland, A. M. Sanchez, M. Albrecht, M. Becker and S. I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz), P19 (Bookham)
Title: Characterization of Ga+ Focussed Ion Beam Patterning on GaAs Substrates
(Planned) event: 8th International Workshop on Expert Evaluation & Control of Compound Semiconductor Materials & Technologies
(Planned) date of presentation: 2006-05-14
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-05-04
• **ID:** 00528
Authors: P. Kratzer, H. Wu, M. Hortamani, S.J. Hashemifar, and M. Scheffler
Authors - SANDiE partners: P27 (FHI)
Title: Transition-metal silicides as novel materials for magnet-semiconductor heterostructures
(Planned) event: International Conference on the Physics of Semiconductors, Vienna
(Planned) date of presentation: 2006-07-23
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-04-21
• **ID:** 00527
Authors: P. Kratzer, Q.K.K. Liu, P. Acosta-Diaz, C. Manzano, G. Costantini, R. Songmuang, A. Rastelli, O. G. Schmidt, and K. Kern
Authors - SANDiE partners: P23 (Stuttgart), P27 (FHI)
Title: Shape Transition during Epitaxial Growth of InAs Quantum Dots on GaAs(001): Theory and Experiment
(Planned) event: International Conference on the Physics of Semiconductors, Vienna
(Planned) date of presentation: 2006-07-23
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-04-21
• **ID:** 00526
Authors: P. Kratzer, Q.K.K. Liu, P. Acosta-Diaz, C. Manzano, G. Costantini, R. Songmuang, A. Rastelli, O. G. Schmidt, and K. Kern
Authors - SANDiE partners: P23 (Stuttgart), P27 (FHI)
Title: Shape Transition during Epitaxial Growth of InAs Quantum Dots on GaAs(001): Theory and Experiment
(Planned) journal: Phys. Rev. B 73, 205347 (2006)
(Planned) date of publication: 2006-05
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-04-21
• **ID:** 00525
Authors: E. Hilner, A. Mikkelsen, J. Eriksson, J. N. Andersen, E. Lundgren, A. Zakharov, H. Yi, and P. Kratzer
Authors - SANDiE partners: P6 (Lund), P27 (FHI)
Title: Au wetting and nanoparticle stability on GaAs(111)B
(Planned) journal: Appl. Phys Lett. 89, 251912 (2006)
(Planned) date of publication: 2006-12
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2006-04-21
• **ID:** 00524
Authors: M. Grundmann, H. v. Wenckstern, R. Pickenhain, Th. Nobis, A. Rahm, M. Lorenz
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Electrical Properties of ZnO Thin Films and Optical Properties of ZnO-based Nanostructures
(Planned) journal: Proc. EMRS, Strasbourg, 2005, Superlattices and Microstructures, in press
(Planned) date of publication: 2006
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2006-04-12
• **ID:** 00523
Authors: M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Quantum devices of reduced dimensionality
(Planned) journal: in Encyclopedia of Condensed Matter Physics, F. Bassani, J. Liedl, P. Wyder, eds., (Elsevier, Kidlington, 2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-04-12
• **ID:** 00522
Authors: A. Rahm, M. Lorenz, Th. Nobis, G. Zimmermann, M. Grundmann, B. Fuhrmann, F. Syrowatka
Authors - SANDiE partners: P01 (Uni Leipzig)

Title: Pulsed Laser Deposition and characterization of ZnO nanowires with regular lateral arrangement
(Planned) journal: Appl. Phys. A, in press
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-04-12

- **ID:** 00521

Authors: T. Nobis, M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Low order whispering gallery modes in hexagonal nanocavities
(Planned) journal: Phys. Rev. A 72, 063806 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-04-12

- **ID:** 00520

Authors: C. Klingshirn, M. Grundmann, A. Hoffmann, B. Meyer, A. Waag
Authors - SANDiE partners: P01 (Uni Leipzig), P04 (TU Berlin)
Title: Zinkoxid - Ein alter, neuer Halbleiter
(Planned) journal: Physik-Journal 5(1), 33 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-04-12

- **ID:** 00519

Authors: L. Turyanska, A. Baumgartner, A. Chaggar, A. Pantane, L. Eaves and M. Henini
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Sharp-line electroluminescence from individual quantum dots by resonant tunneling injection of carriers
(Planned) journal: Applied Physics Letters
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2006-04-12

- **ID:** 00518

Authors: W. Ouerghui, A. Melliti, M.A. Maaref, J. Martinez-Pastor, J. Gomis, D. Granados, and J.M. Garcia
Authors - SANDiE partners: P16 (U Valencia), P22 (CSIC-Madrid)
Title: Size filtering effects in vertical stacks of In(Ga)As/GaAs self-assembled quantum rings
(Planned) journal: Mat. Sci. & Eng. C 26
(Planned) date of publication: 2006-03
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-04-04

- **ID:** 00517

Authors: : A. Cros, N. Garro, J.M. Llorens, A. García-Cristóbal, A. Cantarero, N. Gogneau, E. Monroy, and B. Daudin
Authors - SANDiE partners: P16 (U Valencia)
Title: Raman study and theoretical calculations of strain in GaN quantum dot multilayers
(Planned) journal: Physical Review B
(Planned) date of publication: 2006-03
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-04-04

- **ID:** 00516

Authors: B. E. Kardynal, A. J. Shields, N. S. Beattie, I. Farrer and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Real time read-out of single photon absorption by a field effect transistor with a layer of quantum dots
(Planned) event: Presented at the International Conference on the Physics of Semiconductors (ICPS27), Flagstaff Arizona USA (2004)
(Planned) date of presentation: 2004-07-26 to 2004-07-30
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-06

- **ID:** 00515

Authors: J. C. Blakesley, P. See, A. J. Shields, B. E. Kardynal, P. Atkinson, I. Farrer and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Novel resonant tunnelling quantum dot photon detectors for quantum information technology
(Planned) event: Presented at the International Conference on the Physics of Semiconductors (ICPS27), Flagstaff Arizona, USA (2004)
(Planned) date of presentation: 2004-07-26 to 2004-07-30
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-06

- **ID:** 00514

Authors: B.E. Kardynal, J. C. Blakesley, P. See, A. J. Shields, N. S. Beattie, I. Farrer, P. Atkinson and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Single photon detectors based on quantum dot devices - from principle of operation to single photon counting
(Planned) event: 4th International Conference on New Developments in Photodetection, Beaune France (2005)
(Planned) date of presentation: 2005-06-19 to 2005-06-24
Research paper in international journal? (y/n): n

Status: presented
Submitted to Network Office: 2005-07-06
• **ID:** 00513
Authors: N.S. Beattie, B.E. Kardynal, A.J. Shields, I. Farrer, D.A. Ritchie and M. Pepper
Authors - SANDiE partners: P25 (Toshiba)
Title: Single-photon detection mechanism in a quantum dot transistor
(Planned) journal: Physica E 26, 356-360 (2004)
(Planned) date of publication: 2004-11-23
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-06
• **ID:** 00512
Authors: N. S. Beattie, B. E. Kardynal, A. J. Shields, I. Farrer, D. A. Ritchie and M. Pepper
Authors - SANDiE partners: P25 (Toshiba)
Title: Photon-Induced Conductance Steps and in-situ Modulation of Disorder in a Mesoscopic Electron System
(Planned) journal: Phys. Rev. B 70, 081304(R) (2004)
(Planned) date of publication: 2004-08-23
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-06
• **ID:** 00511
Authors: J. C. Blakesley, P. See, A. J. Shields, B. E. Kardynal, P. Atkinson, I. Farrer and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Efficient Single Photon Detection by Quantum Dot Resonant Tunneling Diodes
(Planned) journal: Phys. Rev. Lett. 94 067401 (2005)
(Planned) date of publication: 2005-02-16
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-06
• **ID:** 00510
Authors: A. J. Shields, Z. Yuan, C. Gobby, D. C. Unitt, A. J. Bennett, P. See, M. B. Ward, B. E. Kardynal, J. C. Blakesley, R. M. Stevenson, P. Atkinson, I. Farrer and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Single Photon Devices for Quantum Cryptography
(Planned) event: The 20th General Conference of the Condensed Matter Division European Physical Society, Prague Czech Republic (2004)
(Planned) date of presentation: 2004-07-19 to 2004-07-23
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-06
• **ID:** 00509
Authors: D. C. Unitt, A. J. Bennett, P. Atkinson, K. Cooper, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Temperature Control of the Polarisation of a Single Photon Source
(Planned) event: International Conference on the Physics of Semiconductors (ICPS27), Flagstaff Arizona, USA (2004)
(Planned) date of presentation: 2004-07-26 to 2004-07-30
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-06
• **ID:** 00508
Authors: M. B. Ward, P. See, O. Karimov, C. Gobby, Z. Yuan, D. C. Unitt, A. J. Bennett, J. C. Blakesley, B. E. Kardynal, R. M. Stevenson, P. Atkinson, I. Farrer, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Application of Self-Assembled Quantum Dots to Quantum Information Technology
(Planned) event: Conference on Semiconductor Quantum Dots: Physics and Devices, Ascona Switzerland (2004)
(Planned) date of presentation: 2004-09-05 to 2004-09-10
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-06
• **ID:** 00507
Authors: A. J. Shields, Z. Yuan, Gobby, D. C. Unitt, A. J. Bennett, P. See, M. B. Ward, O. Karimov, B. E. Kardynal, J. C. Blakesley, R. M. Stevenson, P. Atkinson, I. Farrer and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum Dot Based Devices for Quantum Information Applications
(Planned) event: Solid state based Quantum Information Processing Conference (QIP2004), Herrsching Bavaria (2004)
(Planned) date of presentation: 2004-09-13 to 2004-09-17
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-06
• **ID:** 00506
Authors: A. J. Bennett, D. C. Unitt, P. Atkinson, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Solid state generation of coherent single photons
(Planned) event: Entanglement & Transfer of Quantum Information Conference, Cambridge UK (2004)
(Planned) date of presentation: 2004-09-26 to 2004-09-30
Research paper in international journal? (y/n): n

Status: presented
Submitted to Network Office: 2005-07-06
• **ID:** 00505
Authors: A. J. Shields, A. J. Bennett, D. C. Unitt, M. B. Ward, O. Z. Karimov, P. Atkinson, P. See, D. G. Gevaux, Z. Yuan, R. M. Stevenson and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Optoelectronic Devices for Single Photon Generation
(Planned) event: SPIE Photonics West Conference, San Jose, California USA (2005)
(Planned) date of presentation: 2005-01-22 to 2005-01-27
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-06
• **ID:** 00504
Authors: R. J. Young, R. M. Stevenson, A. J. Shields, P. Atkinson, K. Cooper, D. A. Ritchie, K. M. Groom, A. I. Tartakovskii and M. S. Skolnick
Authors - SANDiE partners: P25 (Toshiba), P8 (U Sheffield)
Title: Inversion of exciton level splitting in quantum dots
(Planned) event: One Day Quantum Dot Meeting, Nottingham UK (2005)
(Planned) date of presentation: 2005-04-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-06
• **ID:** 00503
Authors: A. J. Bennett, D. C. Unitt, P. See, A. J. Shields, P. Atkinson, K. Cooper and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: A single-photon resonant-cavity LED
(Planned) event: Quantum Electronics and Laser Science Conference (CLEO/IQEC), Baltimore MD, USA (2005)
(Planned) date of presentation: 2005-05-22 to 2005-05-27
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-06
• **ID:** 00502
Authors: M. B. Ward, O. Z. Karimov, D. C. Unitt, Z. Yuan, P. See, D. G. Gevaux, A. J. Shields, P. Atkinson and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Telecom Wavelength Quantum Dot Single Photon Source
(Planned) event: Quantum Electronics and Laser Science Conference (CLEO/IQEC), Baltimore MD, USA (2005)
(Planned) date of presentation: 2005-05-22 to 2005-05-27
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-06
• **ID:** 00501
Authors: O. Z. Karimov, M. B. Ward, D. C. Unitt, Z. Yuan, P. See, D. E. Gevaux, A. J. Shields, P. Atkinson and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum dot devices for QKD systems
(Planned) event: Quantum Physics of Nature and 6th European QIPC Workshop and SECOQC: 2nd General Assembly, University of Vienna, Austria (2005)
(Planned) date of presentation: 2005-05-28
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-31
• **ID:** 00500
Authors: M. B. Ward, O. Z. Karimov, D. C. Unitt, Z. Yuan, P. See, D. G. Gevaux, A. J. Shields, P. Atkinson and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: 1.3 μm On-Demand Single Photon Source for Fibre Systems
(Planned) event: European Quantum Electronics Conference, Munich Germany (2005)
(Planned) date of presentation: 2005-06-12 to 2005-06-17
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-06
• **ID:** 00499
Authors: O. Z. Karimov, M. B. Ward, P. See, Z. L. Yuan, T. Farrow, D. C. Unitt, A. J. Shields, P. Atkinson, S. P. Bremner, D. A. Ritchie, E. Clarke, P. Howe, R. Hubbard, P. N. Stavrinou, G. Parry and R. Murray
Authors - SANDiE partners: P25 (Toshiba)
Title: Q-LED: Quantum Light Emitting Diode for Secure Communications
(Planned) event: Photonics Focus Conference, London UK (2004)
(Planned) date of presentation: 2005-06-22
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-06
• **ID:** 00498
Authors: P. Atkinson, M. B. Ward, S. P. Bremner, D. Anderson, T. Farrow, G. A. C. Jones, A. J. Shields and D.A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Site-control of InAs quantum dot nucleation by ex-situ electron-beam lithographic patterning of GaAs substrates
(Planned) event: 12th International Conference on Modulated Semiconductor Structures (MSS12), Albuquerque NM, USA (2005)
(Planned) date of presentation: 2005-07-10 to 2005-07-15
(Planned) journal: Physica E, 32, 21 (2006)
Research paper in international journal? (y/n): y

Status: presented, published
Submitted to Network Office: 2005-07-06
• **ID:** 00497
Authors: R. M. Stevenson, R. J. Young, P. See, D. G. Gevaux, K. Cooper, P. Atkinson, I. Farrer, D. A. Ritchie, A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Cancellation of fine structure splitting in quantum dots by a magnetic field
(Planned) event: 12th International Conference on Modulated Semiconductor Structures (MSS12), Albuquerque NM, USA (2005)
(Planned) date of presentation: 2005-07-10 to 2005-07-15
(Planned) journal: Physica E, 32, 135 (2006)
Research paper in international journal? (y/n): y
Status: presented
Submitted to Network Office: 2005-07-06
• **ID:** 00496
Authors: R. J. Young, R. M. Stevenson, A. J. Shields, P. Atkinson, K. Cooper, D. A. Ritchie, K. M. Groom, A. I. Tartakovskii and M. S. Skolnick
Authors - SANDiE partners: P25 (Toshiba)
Title: Inversion of exciton level splitting in quantum dots
(Planned) event: 12th International Conference on Modulated Semiconductor Structures (MSS12), Albuquerque NM, USA (2005)
(Planned) date of presentation: 2005-07-10 to 2005-07-15
(Planned) journal: Physica E, 32, 97 (2006)
Research paper in international journal? (y/n): y
Status: presented
Submitted to Network Office: 2005-07-06
• **ID:** 00495
Authors: A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Securing Network Communications by Quantum Cryptography
(Planned) event: 1st IEEE Seminar on Quantum Information Processing, Oxford, United Kingdom (2005)
(Planned) date of presentation: 2005-09-15 to 2005-09-16
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-31
• **ID:** 00494
Authors: A. J. Bennett, D. C. Unitt, P. See, A. J. Shields, P. Atkinson, K. Cooper and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Efficient jitter-free source of single-photons
(Planned) event: Single Photon Workshop, National Physical Laboratory, United Kingdom (2005)
(Planned) date of presentation: 2005-10-24 to 2005-10-26
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-31
• **ID:** 00493
Authors: M. B. Ward, O. Z. Karimov, D. C. Unitt, Z. Yuan, P. See, D. G. Gevaux, A. J. Shields, P. Atkinson and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum Dot Single Photon Sources for Standard Telecom Fibre
(Planned) event: Single-Photon Workshop (SPW): Sources, Detectors, Applications and Measurement Methods, National Physical Laboratory, Teddington, UK (2005)
(Planned) date of presentation: 2005-10-24 to 2005-10-26
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-31
• **ID:** 00492
Authors: B. E. Kardynal, J. C. Blakesley, P. See, A. J. Shields, I. Farrer, P. Atkinson and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Single photon detectors based on quantum dot detectors
(Planned) event: 2nd International Symposium on Nanovision Science, Shizuoka University, Hamamatsu, Japan (2005)
(Planned) date of presentation: 2005-10-25 to 2005-10-26
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-31
• **ID:** 00491
Authors: A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: A semiconductor nanotechnology for single photon generation and detection
(Planned) event: "The photon: generation, detection and application" conference, Physikzentrum Bad Honnef, Germany (2005)
(Planned) date of presentation: 2005-11-06
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-31
• **ID:** 00490
Authors: R. M. Stevenson, R. J. Young, P. Atkinson, K. Cooper, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Controlling Exciton Fine Structure Splitting In Quantum Dots
(Planned) event: University of Sheffield Seminar (2005)
(Planned) date of presentation: 2005-11-16
Research paper in international journal? (y/n): n

Status: presented
Submitted to Network Office: 2006-03-31
• **ID:** 00489
Authors: Z. L. Yuan, M. B. Ward, O. Z. Karimov, P. See, A. J. Bennett and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum Cryptographic System and Single Photon Source for Optical Fibre Networking
(Planned) event: Quantum Cryptography & Secure Communication for Business Conference, IEEE, London, UK (2005)
(Planned) date of presentation: 2005-12-07
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-31
• **ID:** 00488
Authors: A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Single Photon Technology for Quantum Cryptography
(Planned) event: "The Quantum Toolbox", IEE Savoy Place, London (2005)
(Planned) date of presentation: 2005-12-14
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-31
• **ID:** 00487
Authors: R. M. Stevenson, R. J. Young, P. Atkinson, K. Cooper, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Triggered Entangled Photons From a Quantum Dot
(Planned) event: SANDiE Optics Task Force Meeting, T. U. Berlin, Germany (2006)
(Planned) date of presentation: 2006-01-12 to 2006-01-13
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-31
• **ID:** 00486
Authors: P. See, M. B. Ward, O. Z. Karimov, Z. L. Yuan, A. J. Shields, P. Atkinson and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: An electrically driven microcavity single photon source
(Planned) event: SPIE Photonics West: Opto Conference, San Jose, CA, USA (2006)
(Planned) date of presentation: 2006-01-19 to 2006-01-26
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-31
• **ID:** 00485
Authors: R. J. Young
Authors - SANDiE partners: P25 (Toshiba)
Title: Towards long distance quantum key distribution using entangled photons
(Planned) event: Nano-tech 2006, Tokyo Big Site, Japan (2006)
(Planned) date of presentation: 2006-02-21 to 2006-02-23
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-31
• **ID:** 00484
Authors: R. J. Young, R. M. Stevenson, P. Atkinson, K. Cooper, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Entangled Photons On-Demand from a Single Quantum Dot
(Planned) event: Cavendish Laboratory, University of Cambridge, Cambridge, UK (2006)
(Planned) date of presentation: 2006-02-27
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-31
• **ID:** 00483
Authors: R. M. Stevenson, R. J. Young, P. Atkinson, K. Cooper, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum Dots as a Source of Entangled Photon Pairs
(Planned) event: 2006 APS Meeting, Baltimore, USA (2006)
(Planned) date of presentation: 2006-03-13 to 2006-03-17
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-31
• **ID:** 00482
Authors: M. B. Ward, P. Atkinson, P. See, T. Farrow, O. Z. Karimov, Z. L. Yuan, S. P. Bremner, D. C. Unitt, D. G. Gevaux, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum Dot Based Single Photon Sources for Quantum Networks
(Planned) event: International Workshop on Semiconductor Quantum Dot Based Devices and Applications Institut Curie, Paris, France (2006)
(Planned) date of presentation: 2006-03-16 to 2006-03-17
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-31

- **ID:** 00481
Authors: A. J. Shields and Izo Abram
Authors - SANDiE partners: P25 (Toshiba) and P11 (CNRS/LPN)
Title: Semiconductor Sources of Single Photons and Photon pairs
(Planned) journal: Quantum Information Processing and Communication in Europe (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): n (distributed by EU)
Status: published
Submitted to Network Office: 2006-03-31
- **ID:** 00480
Authors: A. J. Bennett, D. C. Unitt, P. Atkinson, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: High-efficiency single-photon sources based on InAs/GaAs quantum dots in pillar microcavities
(Planned) journal: Physica E, 26, 391–394 (2005)
(Planned) date of publication: 2004-12-01
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-06
- **ID:** 00479
Authors: A. J. Bennett, D. C. Unitt, P. Atkinson, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: High performance single photon sources from photolithographically defined pillar microcavities
(Planned) journal: Optics Express, 13, 50–55 (2005)
(Planned) date of publication: 2005-01-10
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-06
- **ID:** 00478
Authors: A. J. Bennett, D. C. Unitt, P. See, A. J. Shields, P. Atkinson, K. Cooper and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Microcavity single-photon-emitting diode
(Planned) journal: Appl. Phys. Lett., 86, 181102 (2005)
(Planned) date of publication: 2005-05-02
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-06
- **ID:** 00477
Authors: M. B. Ward, O. Z. Karimov, D. C. Unitt, Z. L. Yuan, P. See, D. G. Gevaux, A. J. Shields, P. Atkinson and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: On-demand single-photon source for 1.3 μm telecom fiber
(Planned) journal: Appl. Phys. Lett., 86, 201111 (2005)
(Planned) date of publication: 2005-05-16
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-06
- **ID:** 00476
Authors: D. C. Unitt, A. J. Bennett, P. Atkinson, K. Cooper, P. See, D. Gevaux, M. B. Ward, R. M. Stevenson, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Quantum dots as single-photon sources for quantum information processing
(Planned) journal: J. Opt. B: Quantum Semiclass. Opt., 7 S129 (2005)
(Planned) date of publication: 2005-06-30
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-06
- **ID:** 00475
Authors: A. J. Bennett, D. C. Unitt, P. See, A. J. Shields P. Atkinson, K. Cooper, M. B. Ward, R. M. Stevenson and D. A. Ritchie
Authors - SANDiE partners: P25 (Toshiba)
Title: Electrical control of the uncertainty in the time of single photon emission events
(Planned) journal: Phys. Rev. B, 72, 033316 (2005)
(Planned) date of publication: 2005-07-18
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-06
- **ID:** 00474
Authors: D. C. Unitt, A. J. Bennett, P. Atkinson, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Polarisation control of quantum dot single photon sources via a dipole-dependant Purcell effect
(Planned) journal: Phys. Rev. B, 72, 033318 (2005)
(Planned) date of publication: 2005-07-21
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-06
- **ID:** 00473
Authors: R. M. Stevenson, R. J. Young, P. See, P. Atkinson, C. E. Norman, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Strong directional dependence of single-quantum-dot-fine-structure

(Planned) journal: Appl. Phys. Lett., 87, 133120 (2005)
(Planned) date of publication: 2006-09-26
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-03-31
 • **ID:** 00472
Authors: A. J. Bennett, D. C. Unitt, P. Atkinson, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Influence of exciton dynamics on the interference of two photons from a microcavity single-photon source
(Planned) journal: Optics Express, 13, 7772 (2005)
(Planned) date of publication: 2005-10-03
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-03-31
 • **ID:** 00471
Authors: R. M. Stevenson, R. J. Young, P. See, D. G. Gevaux, K. Cooper, P. Atkinson, I. Farrer, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Magnetic-field-induced reduction of the exciton polarization splitting in InAs quantum dots
(Planned) journal: Phys. Rev. B, 73, 033306 (2006)
(Planned) date of publication: 2006-01-10
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-03-31
 • **ID:** 00470
Authors: R. M. Stevenson, R. J. Young, P. Atkinson, K. Cooper, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: A semiconductor source of triggered entangled photon pairs
(Planned) journal: Nature, 439, 179–182 (2006)
(Planned) date of publication: 2006-01-12
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-03-31
 • **ID:** 00469
Authors: R. J. Young, R. M. Stevenson, P. Atkinson, D. A. Ritchie and A. J. Shields
Authors - SANDiE partners: P25 (Toshiba)
Title: Improved fidelity of triggered entangled photons from single quantum dots
(Planned) journal: New Journal of Physics, 8, 29 (2006)
(Planned) date of publication: 2006-02-23
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-03-31
 • **ID:** 00468
Authors: G. Saint-Girons, N. Chauvin, A. Michon, G. Patriarche, G. Beaudoin, G. Brémond, C. Bru-Chevallier, I. Sagnes
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Microphotoluminescence of exciton and bi-exciton around 1.5 μm from a single InAs/InP(001) quantum dot
(Planned) journal: Applied Physics Letters
(Planned) date of publication: 2006-03-27
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-03-30
 • **ID:** 00467
Authors: G. Saint-Girons, I. Sagnes and G. Patriarche
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: In incorporation in In-rich InGaAs/GaAs layers grown by low-pressure metalorganic vapor phase epitaxy and its
(Planned) journal: Physical Review B
(Planned) date of publication: 2006-01-11
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-03-30
 • **ID:** 00466
Authors: JM Benoît, L. Le Gratiel, G. Beaudoin, A. Michon, G. Saint-Girons, R. Kuszelewicz, I. Sagnes
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Nanoepitaxy of InAs/InP quantum dots by metalorganic vapor phase epitaxy for 1.55 μm emitters
(Planned) journal: Applied Physics Letters
(Planned) date of publication: 2005-12-27
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-03-30
 • **ID:** 00465
Authors: Berhard Mandl, Julian Stangl, Thomas Mårtensson, Günther Bauer, Lars Samuelson, Werner Seifert
Authors - SANDiE partners: P18 (Uni Linz), P06 (Uni Lund)
Title: Au-free epitaxial growth of InAs nanowires
(Planned) journal: NanoLetters 6, 1817-1821 (2006)
(Planned) date of publication: 2006-03
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-03-28

- **ID:** 00464
Authors: J Johansson, L S Karlsson, C P T Svensson, T Mårtensson, L Samuelson, W Seifert
Authors - SANDiE partners: P06 (Uni Lund)
Title: Structural properties of <111>B oriented III-V nanowires
(Planned) journal: Nature Materials
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2006-03-28
- **ID:** 00463
Authors: Jonas Johansson, Brent A Wacaser, Kimberly Dick, Werner Seifert
Authors - SANDiE partners: P06 (Uni Lund)
Title: Growth-related aspects of epitaxial nanowires
(Planned) journal: Nanotech
(Planned) date of publication: 2006-03
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2006-03-28
- **ID:** 00462
Authors: L. K. Castelano, G.-Q. Hai, B. Partoens, and F. M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Artificial molecular quantum rings
(Planned) journal: PRL
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2006-03-27
- **ID:** 00461
Authors: L. K. Castelano, G.-Q. Hai, B. Partoens, and F. M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Ground state configurations of vertically coupled quantum rings
(Planned) event: ICSNN workshop Istanbul, Turkey
(Planned) date of presentation: 2006-07-30 to 2006-08-04
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-03-17
- **ID:** 00460
Authors: Zhenyang Zhong, J Novak, J Stangl, T Fromherz, F Schäffler, and G Bauer
Authors - SANDiE partners: P18 (Uni Linz)
Title: Growth and characterization of two- and three-dimensionally ordered quantum dots
(Planned) journal: Journal of Physics: Conference Series 38, 69-74 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2006-03-09
- **ID:** 00459
Authors: S. Seidl, M. Kroner, A. Högele, K. Karrai, R. J. Warburton, A. Badolato, and P. M. Petroff
Authors - SANDiE partners: P10 (Heriot-Watt Uni)
Title: Effect of uniaxial stress on excitons in a self-assembled quantum dot
(Planned) journal: Appl. Phys. Lett. 88, 203113 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-03-09
- **ID:** 00458
Authors: T. C. M. Graham, A. Curran, X. Tang, J. K. Morrod, K. A. Prior, and R. J. Warburton
Authors - SANDiE partners: P10 (Heriot-Watt Uni)
Title: Direct and exchange Coulomb energies in CdSe/ZnSe quantum dots
(Planned) journal: Phys. Stat. Sol. (b) 243, 782 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-03-09
- **ID:** 00457
Authors: L.Ya.Karachinsky, T.Kettler, I.I.Novikov, Yu.M.Shernyakov, N.Yu.Gordeev, M.V.Maximov, N.V.Kryzhanovskaya, A.E.Zhukov, E.S.Semenova, A.P.Vasil'ev, V.M.Ustinov, G.Fiol, M.Kuntz, A.Lochmann, O.Schulz, L.Reissmann, K.Posilovic, A.R.Kovsh, S.S.Mikhrin, V.A.Shcukin, N.N.Ledentsov, and D.Bimberg
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)
Title: Metamorphic 1.5 μm range quantum dot lasers on GaAs substrate
(Planned) journal: Semiconductor Sci. Technol.
(Planned) date of publication: 2006-06
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2006-03-08
- **ID:** 00456
Authors: Elizaveta S. Semenova, A.E. Zhukov, A.P. Vasil'jev, L.Ya. Karachinsky, I.I. Novikov, N.Yu. Gordeev, M.V. Maximov, Yu.M. Shernyakov, N.V. Kryzhanovskaya, V.M. Ustinov, T. Kettler, G. Fiol, M. Kuntz, K. Posilovic, A. Lochmann, O. Schulz, L. Reissmann, and

D. Bimberg, A. R. Kovsh, V. A. Shchukin, S. S. Mikhrin, N. N. Ledentsov
Authors - SANDiE partners: : P26 (Ioffe, St. Petersburg), P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)
Title: Single-mode quantum dot lasers for 1.5 mm range on GaAs substrate
(Planned) event: Int. Workshop on Semiconductor quantum dot based devices and applications, Paris, France
(Planned) date of presentation: 2006-03-16 to 2006-03-17 (plenary talk)

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-03-08

• **ID:** 00455

Authors: R. Seguin, S. Rodt, A. Schliwa, K. Pötschke, U. W. Pohl, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Systematic size-dependence of anisotropic exchange interaction in InAs/GaAs quantum dots

(Planned) event: Quantum Dots Conference, QD 2006, Chamonix, France

(Planned) date of presentation: 2006-05-01 to 2006-05-05

(Planned) journal: Phys. Stat. Sol. (b) 243 (15), 3937 (2006)

Research paper in international journal? (y/n): y

Status: invited, published

Submitted to Network Office: 2006-03-08

• **ID:** 00454

Authors: R. Seguin, A. Schliwa, S. Rodt, K. Pötschke, U. W. Pohl, D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Systematic size-dependence of anisotropic exchange interaction in InAs/GaAs quantum dots

(Planned) event: 14th Int. Symp. "Nanostructures: Physics and Technology". St. Petersburg, Russian Federation

(Planned) date of presentation: 2006-06-26 to 2006-06-30

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-03-08

• **ID:** 00453

Authors: Robert Seguin, Andrei Schliwa, Sven Rodt, Konstantin Pötschke, Udo W Pohl, and Dieter Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Ex-situ control of fine-structure splitting and excitonic binding energies in single InAs/GaAs quantum dots

(Planned) event: 28th Int. Conf. on the Physics of Semiconductors, Vienna, Austria

(Planned) date of presentation: 2006-07-24 to 2006-07-28

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-03-08

• **ID:** 00452

Authors: Andrea Lenz, Rainer Timm, Holger Eisele, Tai Y. Kim, Ferdinand Streicher, Konstantin Pötschke, Udo W. Pohl, Dieter Bimberg, and Mario Dähne

Authors - SANDiE partners: P04 (TU Berlin)

Title: InAs/GaAs quantum dots grown with Sb impurities

(Planned) event: 28th Int. Conf. on the Physics of Semiconductors, Vienna, Austria

(Planned) date of presentation: 2006-07-24 to 2006-07-28

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-03-08

• **ID:** 00451

Authors: Andrea Lenz, Holger Eisele, Rainer Timm, and Mario Dähne

Authors - SANDiE partners: P04 (TU Berlin)

Title: Structure of In(Ga)As quantum dots for devices

(Planned) event: 28th Int. Conf. on the Physics of Semiconductors, Vienna, Austria

(Planned) date of presentation: 2006-07-24 to 2006-07-28

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-03-08

• **ID:** 00450

Authors: F. Hopfer, A. Mutig, M. Kuntz, G. Fiol and D. Bimberg, N.N. Ledentsov V.A. Shchukin, S.S. Mikhrin and A.R. Kovsh

Authors - SANDiE partners: P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)

Title: Ultra High Speed Single Mode Submonolayer Quantum Dot Vertical-Cavity Surface-Emitting Lasers

(Planned) event: Int. Workshop on Semiconductor quantum dot based devices and applications, Paris, France

(Planned) date of presentation: 2006-03-16 to 2006-03-17 (plenary talk)

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-03-08

• **ID:** 00449

Authors: Kai Hodeck, Omar Al-Khatib, Christian Griesche, and Mario Dähne

Authors - SANDiE partners: P04 (TU Berlin)

Title: Ultra-compact scanning nearfield optical microscope (SNOM) for low-temperature photoluminescence investigations of single quantum dots

(Planned) event: 28th Int. Conf. on the Physics of Semiconductors, Vienna, Austria

(Planned) date of presentation: 2006-07-24 to 2006-07-28

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-03-08

• **ID:** 00448

Authors: : H. Eisele, A. Lenz, R. Timm, T. Suzuki, Y. Temko, K. Jacobi, and M. Dähne

Authors - SANDiE partners: P04 (TU Berlin)

Title: Change of InAs/GaAs Quantum Dot Structures during capping
(Planned) event: Quantum Dots Conference, QD 2006, Chamonix, France
(Planned) date of presentation: : 2006-05-01 to 2006-05-05
(Planned) journal: Special Issue Physica Status Solidi
Research paper in international journal? (y/n): y
Status: invited
Submitted to Network Office: 2006-03-08
• **ID:** 00447
Authors: H. Eisele, L. Ivanova, A. Lenz, R. Timm, M. Dähne, O. Schumann, L. Geelhaar, and H. Riechert
Authors - SANDiE partners: P04 (TU Berlin)
Title: Atomic structure of capped InAs(N)/GaAs(N) quantum dots
(Planned) event: 28th Int. Conf. on the Physics of Semiconductors, Vienna, Austria
(Planned) date of presentation: 2006-07-24 to 2006-07-28
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-03-08
• **ID:** 00446
Authors: F. Hopfer, A. Mutig, M. Kuntz, G. Fiol, and D. Bimberg, N.N. Ledentsov and V.A. Shchukin, S.S. Mikhrin and A.R. Kovsh. N.D. Zakharov and P. Werner
Authors - SANDiE partners: P04 (TU Berlin)), P28 (NL Nanosemiconductor GmbH), P26 (Ioffe), P05 (MPI Halle)
Title: Single Mode Submonolayer Quantum Dot Vertical-Cavity Surface-Emitting Lasers with High Modulation Bandwidth
(Planned) journal: Appl. Phys. Lett. 89, 141106 (2006)
(Planned) date of publication: 2006-10-02
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-03-08
• **ID:** 00445
Authors: Rainer Timm, Andrea Lenz, Holger Eisele, Lena Ivanova, Ganesh Balakrishnan, Diana Huffaker, Konstantin Pötschke, Udo W. Pohl, Dieter Bimberg, Randall M. Feenstra, and Mario Dähne
Authors - SANDiE partners: P04 (TU Berlin)
Title: Growth, Atomic Structure, and Electronic Properties of GaSb/GaAs Nanostructures: Quantum Wells, Dots, and Rings
(Planned) event: 28th Int. Conf. on the Physics of Semiconductors, Vienna, Austria
(Planned) date of presentation: : 2006-07-24 to 2006-07-28
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-03-08
• **ID:** 00444
Authors: E. W. Bogaart, J. E. M. Haverkort, T. J. Eijkemans, T. Mano, R. Nötzel, and J. H. Wolter
Authors - SANDiE partners: P07 (TU Eindhoven)
Title: Dichroic reflection of InAs/GaAs quantum dots
(Planned) journal: JOURNAL OF APPLIED PHYSICS 98, 073519, 2005
(Planned) date of publication: 2005-10-11
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-03-07
• **ID:** 00443
Authors: E. W. Bogaart, J. E. M. Haverkort, T. Mano, T. van Lippen, R. Nötzel, and J. H. Wolter
Authors - SANDiE partners: P07 (TU Eindhoven)
Title: Role of the continuum background for carrier relaxation in InAs quantum dots
(Planned) journal: PHYSICAL REVIEW B 72, 195301, 2005
(Planned) date of publication: 2005-11-01
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-03-07
• **ID:** 00442
Authors: C. Celebi, J. M. Ulloa, P. M. Koenraad, A. Simon, A. Letoublon, and N. Bertru
Authors - SANDiE partners: P07 (TU Eindhoven), P12 (INSA-LENS)
Title: Capping of InAs quantum dots grown on (311)B InP studied by cross-sectional scanning tunneling microscopy
(Planned) journal: APL
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2006-03-07
• **ID:** 00441
Authors: E.W. Bogaart, J.E.M. Haverkort, T. Mano, R. Nötzel, J.H. Wolter
Authors - SANDiE partners: P07 (TU Eindhoven)
Title: Carrier capture and relaxation through a continuum background in InAs quantum dots
(Planned) journal: Physica E
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2006-03-07
• **ID:** 00440
Authors: F. Pulizzi, D. Walker, A. Patané, L. Eaves, M. Henini, D. Granados, J. M. Garcia, V. V. Rudenkov, P. C. M. Christianen, J. C. Maan, P. Offermans, P. M. Koenraad, G. Hill
Authors - SANDiE partners: P07 (TU Eindhoven), P09 (Uni Nottingham), P22 (CSIC Madrid), P08 (Uni Sheffield)
Title: Excited states of ring-shaped (InGa)As quantum dots in a GaAs/ (AlGa)As quantum well

(Planned) journal: PHYSICAL REVIEW B 72, 085309, 2005

(Planned) date of publication: 2005-08-02

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-03-07

• **ID:** 00439

Authors: P. Offermans, P. M. Koenraad, J. H. Wolter, K. Pierz, M. Roy and P. A. Maksym

Authors - SANDiE partners: P07 (TU Eindhoven)

Title: Atomic-scale structure and photoluminescence of InAs quantum dots in GaAs and AlAs

(Planned) journal: PHYSICAL REVIEW B 72, 165332, 2005

(Planned) date of publication: 2005-10-25

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-03-07

• **ID:** 00438

Authors: P. Offermans, P. M. Koenraad, R. Nötzel, J. H. Wolter, K. Pierz

Authors - SANDiE partners: P07 (TU Eindhoven)

Title: Formation of InAs wetting layers studied by cross-sectional scanning tunneling microscopy

(Planned) journal: APPLIED PHYSICS LETTERS 87, 111903, 2005

(Planned) date of publication: 2005-09-06

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-03-07

• **ID:** 00436

Authors: John H. Davies, Peter Offermans and Paul M. Koenraad

Authors - SANDiE partners: P07 (TU Eindhoven)

Title: Relaxation of a strained quantum well at a cleaved surface. Part II: Effect of cubic symmetry

(Planned) journal: JOURNAL OF APPLIED PHYSICS 98, 053504, 2005

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-03-07

• **ID:** 00435

Authors: F. Schrey, E. Magerl, G. Fasching, G. Strasser, K. Unterrainer

Authors - SANDiE partners: P24 (TU Wien)

Title: Ultrafast Intersublevel Spectroscopy of a single InAs Quantum Dot

(Planned) event: 14th International Winterschool on New Developments in Solid State Physics, Mauterndorf, Austria

(Planned) date of presentation: 2006-02-13 to 2006-02-17

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-03-03

• **ID:** 00434

Authors: T. Müller, G. Strasser, K. Unterrainer

Authors - SANDiE partners: P24 (TU Wien)

Title: Ultrafast Spectral Hole Burning Spectroscopy of Exciton Spin Relaxation in InAs/GaAs quantum dots

(Planned) event: 14th International Winterschool on New Developments in Solid State Physics, Mauterndorf, Austria

(Planned) date of presentation: 2006-02-13 to 2006-02-17

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-03-03

• **ID:** 00433

Authors: T. Gebhard, F. Schrey, G. Strasser, K. Unterrainer, M.P. Pires, S. M. Landi and P.L. Souza

Authors - SANDiE partners: P24 (TU Wien)

Title: Intraband transitions in InAs/InGaAs/InP quantum dots for infrared photodetection

(Planned) event: 14th International Winterschool on New Developments in Solid State Physics, Mauterndorf, Austria

(Planned) date of presentation: 2006-02-13 to 2006-02-17

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-03-03

• **ID:** 00432

Authors: T. Müller, F. Schrey, G. Fasching, J. Darmo, J. Kröll, W. Parz, A.M. Andrews, T. Roch, W. Schrenk, G. Strasser, K. Unterrainer

Authors - SANDiE partners: P24 (TU Wien)

Title: THz Spectroscopy of Semiconductor Nanostructures and Applications

(Planned) event: International School of Solid State Physics, Erice, Italy

(Planned) date of presentation: 2005-07-20 to 2005-07-26

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-03-03

• **ID:** 00431

Authors: G. Fasching, F. Schrey, K. Unterrainer, T. Roch, A.M. Andrews, W. Brezna, J. Smoliner, G. Strasser

Authors - SANDiE partners: P24 (TU Wien)

Title: Photocurrent spectroscopy and AFM analysis of buried single quantum dots

(Planned) event: 55. Jahrestagung der Österreichischen Physikalischen Gesellschaft, Wien

(Planned) date of presentation: 2005-09-27 to 2005-09-29

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-03-03

- **ID:** 00430
Authors: E. Magerl, F. Schrey, G. Fasching, G. Strasser, K. Unterrainer
Authors - SANDiE partners: P24 (TU Wien)
Title: Confocal microscopy on single self assembled quantum dots
(Planned) event: 55. Jahrestagung der Österreichischen Physikalischen Gesellschaft, Wien
(Planned) date of presentation: 2005-09-27 to 2005-09-29
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-03
- **ID:** 00429
Authors: F. Schrey, M. Schramböck, E. Magerl, W. Schrenk, G. Fasching, T. Roch, A.M. Andrews, M. Austerer, A. Lugstein, G. Strasser, K. Unterrainer
Authors - SANDiE partners: P24 (TU Wien)
Title: Nano-patterning and high resolution optical spectroscopy on selfassembled quantum dots
(Planned) event: 55. Jahrestagung der Österreichischen Physikalischen Gesellschaft, Wien
(Planned) date of presentation: 2005-09-27 to 2005-09-29
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-03
- **ID:** 00428
Authors: G. Fasching, F. Schrey, K. Unterrainer, T. Roch, A.M. Andrews, W. Brezna, J. Smoliner, G. Strasser
Authors - SANDiE partners: P24 (TU Wien)
Title: Single InAs/GaAs quantum dots: Photocurrent and cross-sectional AFM analysis
(Planned) event: 12th International Conference on Modulated Semiconductor Structures, Albuquerque, New Mexico, USA
(Planned) date of presentation: 2005-07-10 to 2005-07-15
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-03-03
- **ID:** 00427
Authors: F. Schrey, L. Rebohle, T. Müller, G. Strasser, K. Unterrainer, D. Nguyen, N. Regnault, I. Ferreira, G. Bastard
Authors - SANDiE partners: P24 (TU Wien)
Title: Intraband transitions in quantum dot-superlattice heterostructures
(Planned) journal: Physical Review B, 72 (2005), 155310
(Planned) date of publication: 2005-10-13
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-03-03
- **ID:** 00426
Authors: J. Maes, M. Hayne, D. Fuster, Y. González, L. González, and V.V. Moshchalkov
Authors - SANDiE partners: P02 (KU Leuven), P22 (CSIC Madrid)
Title: Comparison of Charge Confinement in InAs/InP Quantum Wires and Wells
(Planned) event: 28th International Conference on the Physics of Semiconductors, ICPS 2006, Vienna, Austria
(Planned) date of presentation: 2006-07-24 to 2006-07-28
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-03-02
- **ID:** 00425
Authors: Vasily V. Temnov and Ulrike Woggon
Authors - SANDiE partners: P20 (Uni Dortmund)
Title: Collective spontaneous emission in inhomogeneously broadened ensembles of two-level systems coupled to a low-Q cavity
(Planned) event: NOEKS 8, Münster, Germany
(Planned) date of presentation: 2006-02
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-02-28
- **ID:** 00424
Authors: Vasily V. Temnov and Ulrike Woggon
Authors - SANDiE partners: P20 (Uni Dortmund)
Title: Superradiance of Quantum Dots in Microcavities
(Planned) event: CLEO/QELS 2006 in Long Beach, USA
(Planned) date of presentation: 2006-05
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-02-28
- **ID:** 00423
Authors: X. Li, P. Boucaud, X. Checoury, M. El Kurdi, S. David, S. Sauvage, N. Yam, F. Fossard, D. Bouchier, J. M. Fédéli, A. Salomon, V. Calvo, E. Hadji
Authors - SANDiE partners: P13 (Uni Paris)
Title: Quality factor control of Si-based two-dimensional photonic crystals with a Bragg mirror
(Planned) journal: Applied Physics Letters 88, 091122 (2006)
(Planned) date of publication: 2006-03-06
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-02-28
- **ID:** 00422
Authors: X. Li, P. Boucaud, X. Checoury, M. El Kurdi, S. David, S. Sauvage, N. Yam, F. Fossard, D. Bouchier, J. M. Fédéli, V. Calvo, E. Hadji

Authors - SANDiE partners: P13 (Uni Paris)
Title: Two-dimensional photonic crystals coupled to one-dimensional Bragg mirrors
(Planned) journal: IEEE Journal of Selected Topics in Quantum Electronics
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2006-02-28
 • **ID:** 00421
Authors: M. El Kurdi, S. Sauvage, G. Fishman, and P. Boucaud
Authors - SANDiE partners: P13 (Uni Paris)
Title: Band-edge alignment of SiGe/Si quantum wells and SiGe/Si self-assembled islands
(Planned) journal: Physical Review B 73, 195327 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-02-28
 • **ID:** 00420
Authors: A. Fonseca, N.A. Sobolev, J.P. Leitão, E. Alves, M.C. Carmo, N.D. Zakharov, P. Werner, A.A. Tonkikh, and E.G. Cirlin
Authors - SANDiE partners: P05 (MPI Halle), P15 (Univ. Aveiro), P26 (A. F. Ioffé Institute)
Title: Influence of defects on the optical and structural properties of Ge dots embedded in a Si/Ge superlattice
(Planned) event: E-MRS – IUMRS – ICEM 06, Symposium D: Silicon-Based Photonics (Nice, France)
(Planned) date of presentation: 2006-05-29 to 2006-06-02
Research paper in international journal? (y/n): n
Status: poster
Submitted to Network Office: 2006-02-27
 • **ID:** 00419
Authors: A.O. Ankiewicz, W. Gehlhoff, A. Rahm, M. Lorenz, M. Grundmann, M.C. Carmo, N.A. Sobolev
Authors - SANDiE partners: P01 (Univ. Leipzig), P04 (TU Berlin), P15 (Uni Aveiro)
Title: Electron Paramagnetic Resonance Characterization of Mn- and Co-doped ZnO Nanowires
(Planned) event: 28th Int. Conf. on Physics of Semiconductors (Vienna, Austria), AIP Conference Proceedings, Vol. 893 (2007) 63
(Planned) date of presentation: 2006-07-24 to 2006-07-28
Research paper in international journal? (y/n): n
Status: poster presented
Submitted to Network Office: 2006-02-27
 • **ID:** 00418
Authors: A.O. Ankiewicz, W. Gehlhoff, A. Rahm, M. Lorenz, M. Grundmann, M.C. Carmo, N.A. Sobolev
Authors - SANDiE partners: P01 (Univ. Leipzig), P04 (TU Berlin), P15 (Uni Aveiro)
Title: Electron Paramagnetic Resonance in Mn- and Co-doped ZnO Nanowires
(Planned) event: Workshop on Electron Spin Resonance and Related Phenomena in Low Dimensional Structures (Villa Nobel, Sanremo, Italy)
(Planned) date of presentation: 2006-03-06 to 2006-03-08
Research paper in international journal? (y/n): n
Status: poster presented
Submitted to Network Office: 2006-02-27
 • **ID:** 00417
Authors: N.A. Sobolev, A. Fonseca, J.P. Leitão, E. Alves, M.C. Carmo, N. Zakharov, P. Werner, A.A. Tonkikh, and G.E. Cirlin
Authors - SANDiE partners: : P05 (MPI Halle), P15 (Uni Aveiro)
Title: Enhancement of the radiation hardness of Ge quantum dots by embedding in SiGe superlattices
(Planned) event: : Fourth Int. Conf. on Semiconductor Quantum Dots – QD2006 (Chamonix, France)
(Planned) date of presentation: 2006-05-01 to 2006-05-05
Research paper in international journal? (y/n): n
Status: poster
Submitted to Network Office: 2006-02-27
 • **ID:** 00416
Authors: N.P. Stepina, A.I. Yakimov, A.V. Nenashev, A.V. Dvurechenskii, A.I. Nikiforov, N.A. Sobolev, J.P. Leitao, L. Pereira, M.C. Carmo
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Visible and infrared photoconductivity with long-time kinetics in two-dimensional arrays of Ge/Si quantum dots
(Planned) event: Fourth Int. Conf. on Semiconductor Quantum Dots – QD2006 (Chamonix, France)
(Planned) date of presentation: 2006-05-01 to 2006-05-05
Research paper in international journal? (y/n): n
Status: poster
Submitted to Network Office: 2006-02-27
 • **ID:** 00415
Authors: A. Fonseca, E. Alves, N.P. Barradas, J.P. Leitão, N.A. Sobolev, M.C. Carmo and A.I. Nikiforov
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Structural and optical study of Ge islands grown on Si (001) through Volmer-Weber growth mode
(Planned) event: Fourth Int. Conf. on Semiconductor Quantum Dots – QD2006 (Chamonix, France)
(Planned) date of presentation: 2006-05-01 to 2006-05-06
Research paper in international journal? (y/n): n
Status: poster
Submitted to Network Office: 2006-02-27
 • **ID:** 00414
Authors: N.P. Stepina, A.V. Dvurechenskii, V.A. Ambrister, J.V. Smagina, V.A. Volodin, J.P. Leitão, M.C. do Carmo, N.A. Sobolev
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Effect of low-energy pulsed ion irradiation during MBE on the luminescence of Ge/Si quantum dots
(Planned) event: 14th Int. Symp. “Nanostructures: Physics and Technology” (St. Petersburg, Russia)

(Planned) date of presentation: 2006-06-26 to 2006-06-30

Research paper in international journal? (y/n): n

Status: poster

Submitted to Network Office: 2006-02-27

• **ID:** 00413

Authors: J.P. Leitão, A. Fonseca, N.A. Sobolev, M.C. Carmo, N. Franco, A.D. Sequeira, T.M. Burbaev, V.A. Kurbatov, M.M. Rzaev, A.O. Pogosov, N.N. Sibeldin, V.A. Tsvetkov, H. Lichtenberger, F. Schäffler

Authors - SANDiE partners: P15 (Uni Aveiro), P18 (Univ. Linz)

Title: Low temperature molecular beam epitaxy of Ge on Si

(Planned) event: Workshop on Low-Dimensional Semiconductor Structures: Growth, Properties and Applications (Aveiro, Portugal)

(Planned) date of presentation: 2006-01-27 to 2006-01-28

Research paper in international journal? (y/n): n

Status: poster presented

Submitted to Network Office: 2006-02-27

• **ID:** 00412

Authors: J.P. Leitão, A. Fonseca, N.A. Sobolev, E. Alves, M.C. Carmo, H. Presting, A. Nikiforov, N.D. Zakharov, P. Werner, A.A. Tonkikh, E.G. Cirilin

Authors - SANDiE partners: P05 (MPI Halle), P15 (Univ. Aveiro), P26 (A. F. Ioffe Institute)

Title: Optical and structural characterization of Ge/Si quantum dots grown on Si(001)

(Planned) event: Workshop on Low-Dimensional Semiconductor Structures: Growth, Properties and Applications (Aveiro, Portugal)

(Planned) date of presentation: 2006-01-27 to 2006-01-28

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-02-27

• **ID:** 00411

Authors: N.A. Sobolev

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: Magnetic nanoclusters in semiconductors

(Planned) event: Workshop on Low-Dimensional Semiconductor Structures: Growth, Properties and Applications (Aveiro, Portugal)

(Planned) date of presentation: 2006-01-27 to 2006-01-28

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-02-27

• **ID:** 00410

Authors: A. Fonseca, N.A. Sobolev, J.P. Leitão, E. Alves, M.C. Carmo, A.I. Nikiforov

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: Photoluminescence and Rutherford backscattering study of Ge quantum dots grown on a Si(100) surface covered with a thin silicon oxide layer

(Planned) event: Internat. Conf. "Topical Problems of the Solid State Physics" (Minsk, Belarus)

(Planned) date of presentation: 2005-10-26 to 2005-10-28

Research paper in international journal? (y/n): n

Status: poster presented

Submitted to Network Office: 2006-02-27

• **ID:** 00409

Authors: A. Fonseca, E. Alves, N. P. Barradas, J.P. Leitão, N.A. Sobolev, M.C. Carmo, A.I. Nikiforov

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: Structural and optical characterization of Ge quantum dots

(Planned) event: The 2nd ASPECT Workshop on Advanced Spectroscopy (Kazimierz Dolny, Poland)

(Planned) date of presentation: 2005-09-29 to 2005-10-02

Research paper in international journal? (y/n): n

Status: poster presented

Submitted to Network Office: 2006-02-27

• **ID:** 00408

Authors: A.I. Yakimov, A.V. Dvurechenskii, G.M. Minkov, A.A. Sherstobitov, A.I. Nikiforov, A.A. Bloshkin, N.P. Stepina, J.P. Leitão, N.A. Sobolev, L. Pereira, M.C. do Carmo

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: Hopping magnetoresistance in two-dimensional arrays of Ge/Si quantum dots

(Planned) event: Transport in Interacting and Disordered Systems (TIDS11) (Egmond aan Zee)

(Planned) date of presentation: 2005-08-21 to 2005-08-26

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-02-27

• **ID:** 00407

Authors: J. Biskupek, U. Kaiser, H. Lichte, A. Lenk, M. Kawasaki, N. Sobolev, O. Picht, E. Wendler, W. Wesch

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: Magnetic Nanocrystals in Semiconductors

(Planned) event: Microscopy Conference (Davos, Switzerland)

(Planned) date of presentation: 2005-08-25 to 2005-09-02

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-02-27

• **ID:** 00406

Authors: N.A. Sobolev, M.A. Oliveira, V.S. Amaral, A.J. Neves, M.C. Carmo, W. Wesch, O. Picht, J. Biskupek, E. Wendler, U. Kaiser, M. Kawasaki

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: Magnetic nanoclusters in Mn and As co-implanted silicon

(Planned) event: The Third International School and Conference on Spintronics and Quantum Information Technology (Spintech III)

(Awaji Island, Japan)

(Planned) date of presentation: 2005-08-01 to 2005-08-05

Research paper in international journal? (y/n): n

Status: poster presented

Submitted to Network Office: 2006-02-27

• **ID:** 00405

Authors: N.P. Stepina, A.I. Yakimov, A.V. Nanashev, A.V. Dvurechenskii, N.A. Sobolev, J.P. Leitão, V.V. Kirienko, A.I. Nikiforov, E.S. Koptev, L. Pereira, M.C. Carmo

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: Photoconductivity in tunneling-coupled Ge/Si quantum dot arrays (in Russian)

(Planned) journal: Zh. Exp. Teor. Fiz., Vol. 103 (2006) 309 [Engl. cover-to cover translation: J. Exp. Theor. Physics, Vol. 103 (2006) 269]

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-02-27

• **ID:** 00404

Authors: A.I. Yakimov, A.V. Dvurechenskii, G.M. Minkov, A.A. Sherstobitov, A.I. Nikiforov, A.A. Bloshkin, N.P. Stepina, J.P. Leitão, N.A. Sobolev, L. Pereira, M.C. do Carmo

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: Hopping magnetoresistance in two-dimensional arrays of Ge/Si quantum dots

(Planned) journal: Phys. Status Solidi (c), Vol. 3 (2006) 296

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-02-27

• **ID:** 00403

Authors: A. Chahboun, N.V. Baidus, P.B. Demina, B.N. Zvonkov, M.J.M. Gomes, A. Cavaco, N.A. Sobolev, M.C. Carmo, and M.I. Vasilevskiy

Authors - SANDiE partners: P15 (Uni Aveiro)

Title: Influence of matrix defects on the photoluminescence of InAs self-assembled quantum dots

(Planned) journal: Phys. Status Solidi (a), Vol. 203 (2006) 1348

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-02-27

• **ID:** 00402

Authors: V. Preisler, T. Grange, R. Ferreira, L. A. de Vaulchier, Y. Guldner, F. J. Teran, M. Potemski, and A. Lemaître

Authors - SANDiE partners: P11 (LPN/CNRS)

Title: Evidence for excitonic polarons in InAs/GaAs quantum dots

(Planned) journal: Phys. Rev. B 73, 075320 (2006)

(Planned) date of publication: 2006-02-14

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-02-27

• **ID:** 00401

Authors: V. Preisler, R. Ferreira, S. Hameau, L. A. de Vaulchier, Y. Guldner, M. L. Sadowski, and A. Lemaître

Authors - SANDiE partners: P11(LPN/CNRS)

Title: Hole-LO phonon interaction in InAs/GaAs quantum dots

(Planned) journal: Phys. Rev. B 72, 115309 (2005)

(Planned) date of publication: 2005-09-09

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-02-27

• **ID:** 00400

Authors: S. Laurent, B. Eble, O. Krebs, A. Lemaître, B. Urbaszek, X. Marie, T. Amand, and P. Voisin

Authors - SANDiE partners: P11(LPN/CNRS)

Title: Controlling hole spin relaxation in charge tunable InAs/GaAs quantum dots

(Planned) journal: Proc. 27th Int. Conf. on the Physics of Semiconductors (ICPS), edited by J. Menendez and C.G. Van de Walle, 772, 1293 (2005)

(Planned) date of publication: 2005-06-30

Research paper in international journal? (y/n): n

Status: published

Submitted to Network Office: 2006-02-27

• **ID:** 00399

Authors: A. Lemaître, G. Patriarche, and F. Glas

Authors - SANDiE partners: P11(LPN/CNRS)

Title: Determination of In(Ga)As/GaAs quantum dot composition profile

(Planned) journal: Proc. 27th Int. Conf. on the Physics of Semiconductors (ICPS), edited by J. Menendez and C.G. Van de Walle, 772, 583 (2005)

(Planned) date of publication: 2005-06-30

Research paper in international journal? (y/n): n

Status: published

Submitted to Network Office: 2006-02-27

• **ID:** 00398

Authors: G. Trevisi, P. Frigeri, M. Minelli, C. Bocchi, P. Allegri, V. Avanzini and S. Franchi

Authors - SANDiE partners: P14 (CNR-IMEM)

Title: InGaAs/AlGaAs quantum dot structures for 980 nm room temperature emission
(Planned) event: E-MRS 2006 Spring Meeting - Symposium A, Nice, France
(Planned) date of presentation: 2006-05-29 to 2006-06-02
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-02-26
• **ID:** 00397
Authors: L. Seravalli, P. Frigeri, P. Allegri, V. Avanzini and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Metamorphic Quantum Dot Nanostructures For Long Wavelength Operation With Improved Emission Efficiency
(Planned) event: E-MRS 2006 Spring Meeting - Symposium A, Nice, France
(Planned) date of presentation: 2006-05-29 to 2006-06-02
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-02-26
• **ID:** 00396
Authors: S. Sanguinetti, D. Colombo, M. Guzzi, E. Grilli, M. Gurioli, L. Seravalli, P. Frigeri, and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Carrier Thermodynamics in InAs/(In)GaAs Quantum Dots
(Planned) journal: Phys. Rev. B 74, 205302 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-02-26
• **ID:** 00395
Authors: M. Gurioli, M. Zamfirescu, A. Vinattieri, S. Sanguinetti, E. Grilli, M. Guzzi, S. Mazzucato, A. Polimeni, M. Capizzi, L. Seravalli, P. Frigeri and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Hydrogen passivation of strain-engineered semiconductor quantum dot structures
(Planned) journal: Appl Phys Lett 100, 084313 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-02-26
• **ID:** 00394
Authors: D. Sprinzl, P. Nahálková, J. T. Devreese, V. N. Gladilin, P. Malý, P. Nemeč
Authors - SANDiE partners: P03 (Uni Antwerpen), A2 (Uni Prague)
Title: Spin-polarised carriers in CdS quasi-spherical quantum dots
(Planned) journal: Phys. Stat. Sol. (c) 3, 870-873 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-02-24
• **ID:** 00393
Authors: N. A. J. M. Kleemans, P. Offermans, J. H. Wolter, P. M. Koenraad, I. M. A. Bominaar-Silkens, U. Zeitler, P. C. M. Christianen, J. C. Maan, D. Granados, J. M. García, V. M. Fomin, V. N. Gladilin, J. T. Devreese
Authors - SANDiE partners: P03 (Uni Antwerpen), P07 (TU Eindhoven), P22 (CSIC, Madrid)
Title: Observation of the Aharonov-Bohm Effect in Self-Assembled InGaAs/GaAs Nano-Volcanoes
(Planned) event: APS March Meeting, Baltimore, USA
(Planned) date of presentation: 2006-03-13 to 2006-03-17
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-02-24
• **ID:** 00392
Authors: V. M. Fomin, V. N. Gladilin, J. T. Devreese
Authors - SANDiE partners: P03 (Uni Antwerpen), P07 (TU Eindhoven)
Title: Modeling of Quantum Dots and Self-Assembled InGaAs/GaAs Quantum Rings
(Planned) event: Workshop "Characterization and Modeling of Self-Assembled Semiconductor Nanostructures", TU Eindhoven, The Netherlands
(Planned) date of presentation: 2005-11-24 to 2005-11-25
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-02-24
• **ID:** 00391
Authors: V.M. Fomin, V.N. Gladilin, J.T. Devreese, P. Offermans, P.M. Koenraad, J.H. Wolter, D. Granados, J.M. García
Authors - SANDiE partners: P03 (Uni Antwerpen), P07 (TU Eindhoven)
Title: The Aharonov-Bohm effect in self-assembled InGaAs/GaAs quantum rings
(Planned) event: 4th International Conference on Microelectronics and Computer Science, ICMCS-2005, Chisinau, Moldova
(Planned) date of presentation: 2005-09-15 to 2005-09-17
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2006-02-24
• **ID:** 00390
Authors: V. M. Fomin, V. N. Gladilin, J. T. Devreese, P. Offermans, N. Kleemans, P. M. Koenraad, J. H. Wolter, D. Granados, J. M. García
Authors - SANDiE partners: P03 (Uni Antwerpen), P07 (TU Eindhoven), P22 (CSIC, Madrid)
Title: X-STM-Characterization and Properties of Self-Assembled Quantum Rings
(Planned) event: Joint Congress BPS - SFP, Lille, France

(Planned) date of presentation: 2005-08-29 to 2005-09-02

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-02-24

• **ID:** 00389

Authors: V.M. Fomin, V.N. Gladilin, N.A.J.M. Kleemans, I.M.A. Bominaar-Silkens, D. Granados, J.M. García, P. Offermans, U. Zeitler, P.C.M. Christianen, J.C. Maan, J.T. Devreese, J.H. Wolter, P.M. Koenraad

Authors - SANDiE partners: P03 (Uni Antwerpen), P07 (TU Eindhoven), P22 (CSIC, Madrid)

Title: Observation of the Aharonov-Bohm effect in self-assembled nano-volcanoes

(Planned) event: EPS - 21st General Conference of the Condensed Matter Division, Dresden, Germany

(Planned) date of presentation: 2006-03-26 to 2006-03-31

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-02-24

• **ID:** 00388

Authors: V. M. Fomin, V. N. Gladilin, J. T. Devreese, P. Offermans, P. M. Koenraad, J. H. Wolter, D. Granados, J. M. García

Authors - SANDiE partners: P03 (Uni Antwerpen), P07 (TU Eindhoven), P22 (CSIC, Madrid)

Title: The Aharonov-Bohm effect in self-assembled InGaAs/GaAs quantum rings

(Planned) event: 16th International Conference EP2DS, Albuquerque, USA

(Planned) date of presentation: 2005-07-10 to 2005-07-15

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2006-02-24

• **ID:** 00387

Authors: Yu.N. Khanin, E.E. Vdovin, S.V. Dubonos, A. Levin, L. Eaves, and M. Henini

Authors - SANDiE partners: P09 (Uni Nottingham)

Title: Coulomb Oscillations of the Current through Spin-Nondegenerate p States of InAs Quantum Dots

(Planned) journal: JETP Letters, Vol. 82, No. 8, 2005, pp. 526-531

(Planned) date of publication: 2005-09-15

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-02-24

• **ID:** 00386

Authors: N.D.Zakharov, P.Werner, G.Gerth, L.Schubert, L.Sokolov, U.Gösele

Authors - SANDiE partners: P05 (MPI Halle)

Title: Growth phenomena of Si and Si/Ge nanowires on Si (1 1 1) by molecular beam epitaxy

(Planned) journal: Journal of Crystal Growth

(Planned) date of publication: 2006-01-03

Research paper in international journal? (y/n): y

Status: in publication

Submitted to Network Office: 2006-02-22

• **ID:** 00385

Authors: : V.G. Talalaev , G.E. Cirlin , A.A. Tonkikh, N.D. Zakharov,P. Werner, U. Gösele, J.W. Tomm, T. Elsaesser

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P05 (MPI Halle)

Title: Miniband-related 1.4-1.8 μm luminescence of Ge/Si quantum dot superlattices

(Planned) journal: Nanoscale Research Letters

(Planned) date of publication: 2006-01-06

Research paper in international journal? (y/n): y

Status: applied

Submitted to Network Office: 2006-02-22

• **ID:** 00384

Authors: : V. G. Talalaev, J. W. Tomm, A. S. Sokolov, I. V. Shtrom, B. V. Novikov, A. Winzer, R. Goldhahn, G. Gobsch, N. D. Zakharov and P. Werner, G. E. Cirlin, A. A. Tonkikh, and V. M. Ustinov

Authors - SANDiE partners: : P26 (Ioffe, St. Petersburg), P05 (MPI Halle)

Title: Tuning of the inter-dot resonance in stacked InAs quantum dot arrays by an external electric field

(Planned) journal: JAP

(Planned) date of publication: 2006-01-06

Research paper in international journal? (y/n): y

Status: applied

Submitted to Network Office: 2006-02-22

• **ID:** 00383

Authors: A. Krügel, V.M. Axt, T. Kuhn, A. Vagov, and F.M. Peeters

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: Coherent nonlinear optical response of excitons and biexcitons in quantum dots coupled to phonons

(Planned) event: The International Workshop on Nonlinear Optics and Excitation Kinetics in Semiconductors in Münster, Germany

(Planned) date of presentation: 2006-02-20 to 2006-02-24

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-02-20

• **ID:** 00382

Authors: A. Vagov, M.P. Croitoru, V.M. Axt, T. Kuhn, and F. Peeters

Authors - SANDiE partners: P03 (Uni Antwerpen)

Title: High pulse area undamping of Rabi oscillations in quantum dots coupled to phonons

(Planned) event: The International Workshop on Nonlinear Optics and Excitation Kinetics in Semiconductors in Münster, Germany

(Planned) date of presentation: 2006-02-20 to 2006-02-24

(Planned) journal: phys. stat. sol. (b) 243, No. 10,2233-2240 (2006)

(Planned) date of publication: 2006-07-31

Research paper in international journal? (y/n): y

Status: presented, published

Submitted to Network Office: 2006-02-20

• **ID:** 00381

Authors: N.V. Kryzhanoskaya, P. Zimmer, N.N. Ledentsov, A. Hoffmann, D. Bimberg, S.S. Mikhlin, V.A. Shchukin, L.Ya. Karachinsky, and M.V. Maximov

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)

Title: Engineering of the radiative recombination rate in quantum dots coupled to the tilted cavity waveguide mode

(Planned) journal: Semiconductor Sci. Technol.

(Planned) date of publication: 2006-01-06

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-02-17

• **ID:** 00380

Authors: U.W. Pohl, K. Pötschke, A. Schliwa, F. Guffarth, and D. Bimberg, N.D. Zakharov and P. Werner, M.B. Lifshits and V.A. Shchukin, D.E. Jesson

Authors - SANDiE partners: P04 (TU Berlin)

Title: Evolution of a multimodal distribution of self-organized InAs/GaAs quantum dots

(Planned) journal: Phys. Rev. B

(Planned) date of publication: 2005-12-21

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2006-02-17

• **ID:** 00379

Authors: M. Geller, A. Marent, A.P. Vasi'ev, E.S. Semenova, A.E. Zhukov, V.M. Ustinov, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)

Title: 5 ms storage time at room temperature in InGaAs quantum dots

(Planned) event: 14th Int. Symp. "Nanostructures: Physics and Technology". St. Petersburg, Russian Federation

(Planned) date of presentation: 2006-06-26 to 2006-06-30

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-02-17

• **ID:** 00378

Authors: N.N. Ledentsov, A.R. Kovsh, V.A. Shchukin, S.S. Mikhlin, I.L. Krestnikov, A.V. Kozhukhov, L.Ya. Karachinsky, M.V. Maximov, I.I. Novikov, Yu.M. Shernyakov, I.P. Soshnikov, A.E. Zhukov, Yu.G. Musikhin, V.M. Ustinov, N.D. Zakharov, P. Werner, T. Kettler, K. Posilovic, D. Bimberg, M. Hu, H. K. Nguyen, K. Song and Chung-en Zah

Authors - SANDiE partners: P28 (NL Nanosemiconductor GmbH), P26 (Ioffe, St. Petersburg), P04 (TU Berlin)

Title: 1.3-1.5 μm quantum dot lasers on foreign substrates: Growth using defect reduction technique, high-power CW operation, and degradation resistance

(Planned) event: Photonics West, San José, California, USA

(Planned) date of presentation: 2006-01-25

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-02-17

• **ID:** 00377

Authors: A. Marent, M. Geller, A.E. Zhukov, I.S. Shulgunova, A.V. Solomov, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Carrier capture into self-organized InGaAs quantum dots

(Planned) event: 14th Int. Symp. "Nanostructures: Physics and Technology". St. Petersburg, Russian Federation

(Planned) date of presentation: 2006-06-26 to 2006-06-30

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-02-17

• **ID:** 00376

Authors: Y. Sidor, B. Partoens, F. M. Peeters, N. Schildermans, M. Hayne, V. V. Moshchalkov, A. Rastelli, and O. G. Schmidt

Authors - SANDiE partners: P03 (U Antwerpen), P02 (K.U. Leuven), P23 (MPI Stuttgart)

Title: High-field magneto-excitons in unstrained GaAs/AlxGa1-xAs quantum dots

(Planned) journal: Phys. Rev. B

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: submitted

Submitted to Network Office: 2006-02-17

• **ID:** 00375

Authors: I. Abram, S. Varoutsis, S. Laurent, A. Lemaître, I. Sagnes and I. Robert-Philip

Authors - SANDiE partners: P11 (LPN/CNRS)

Title: Single photons from etched nanostructures

(Planned) event: OECS9, 9th international conference on the Optics of Excitons in Confined System

(Planned) date of presentation: 2005-09-05 to 2005-09-09

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2006-02-15

• **ID:** 00374

Authors: I. Abram, S. Varoutsis, S. Laurent, A. Lemaître, I. Sagnes and I. Robert-Philip

Authors - SANDiE partners: P11 (LPN/CNRS)

Title: Single photons from etched nanostructures

(Planned) event: OECS9, 9th international conference on the Optics of Excitons in Confined System

(Planned) date of presentation: 2005-09-05 to 2006-09-09

Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-02-15
• **ID:** 00373
Authors: S. Laurent, R. Braive, S. Varoutsis, L. Le Gratiot, A. Lemaître, I. Sagnes, A. Beveratos, I. Robert-Philip and I. Abram
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: tailoring the emission from single quantum dot through cavity effects for quantum information processing
(Planned) event: IPRM 2006, International conference on Indium Phosphide and Related Materials
(Planned) date of presentation: 2006-05-07 to 2006-05-11
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-02-15
• **ID:** 00372
Authors: S. Laurent, S. Varoutsis, L. Le Gratiot, A. Lemaître, I. Sagnes, F. Raineri, I. Robert-Philip and I. Abram
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Indistinguishable single photons from a single InAs quantum dot in a photonic crystal slab cavity
(Planned) journal: Physica E: Low-dimensional Systems and Nanostructures 32, 480-483 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-02-15
• **ID:** 00371
Authors: S. Varoutsis, S. Laurent, I. Sagnes, A. Lemaître, L. Ferlazzo, C. Mériadec, G. Patriarche, I. Robert-Philip and I. Abram
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Reactive-ion etching of high-Q and submicron-diameter GaAs/AlAs micropillars
(Planned) journal: J. Vac. Sci. Technol. B 23, 2499 (2005)
(Planned) date of publication: 2005-11
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-02-15
• **ID:** 00370
Authors: A.M. Sanchez, R. Beanland, A.J. Papworth, M.H. Gass and P.J. Goodhew
Authors - SANDiE partners: P17 (Uni Cádiz), P19 (Bookham)
Title: Changes in the plasmon peak position with different experimental conditions
(Planned) journal: Congress XIV Microscopy of Semiconducting Materials, Oxford, 2005-04-11 to 2005-04-14 (proceedings)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): n
Status:
Submitted to Network Office: 2006-02-08
• **ID:** 00369
Authors: M.H. Gass, A.M. Sanchez, A.J. Papworth, T.J. Bullough, R.Beanland, and P.R. Chalker
Authors - SANDiE partners: P17 (Uni Cádiz), P19 (Bookham)
Title: Mapping of the effective mass of electrons in III-V semiconductors
(Planned) journal: Congress XIV Microscopy of Semiconducting Materials, Oxford, 2005-04-11 to 2005-04-14 (proceedings)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): n
Status:
Submitted to Network Office: 2006-02-08
• **ID:** 00368
Authors: A.M. Sanchez, P.L. Galindo, S. Kret, M. Falke, R. Beanland, P.J. Goodhew
Authors - SANDiE partners: P17 (Uni Cádiz), P19 (Bookham)
Title: An approach to the systematic distortion correction in aberration corrected HAADF images
(Planned) journal: Journal of Microscopy, 221, 1, (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-02-08
• **ID:** 00367
Authors: A.M. Sanchez, R. Beanland, A.J. Papworth, P.J. Goodhew, M.H. Gass
Authors - SANDiE partners: P17 (Uni Cádiz), P19 (Bookham)
Title: Nanometer-scale strain measurements in semiconductors: An innovative approach using the plasmon peak in electron energy loss spectra
(Planned) journal: APPLIED PHYSICS LETTERS 88, 051917 (2006)
(Planned) date of publication: 2006-06-02
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-02-08
• **ID:** 00366
Authors: C. Cornet, C. Labbé, H. Folliot, P. Caroff, C. Levallois, O. Dehaese, J. Even, A. Le Corre and S. Loualiche
Authors - SANDiE partners: P12 (INSA Rennes)
Title: Time-resolved pump-probe of 1.55 microns InAs/InP quantum dots under high resonant excitation
(Planned) journal: Applied Physics Letters 88, 171502 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2006-02-07

- **ID:** 00365
Authors: C. Cornet, A. Schliwa, J. Even, F. Doré, C. Celebi, A. Létoublon, E. Macé, C. Paranthoën, A. Simon, P. M. Koenraad, N. Bertru, D. Bimberg and S. Loualiche
Authors - SANDiE partners: P12 (INSA Rennes), P04 (TU Berlin), P07 (TU Eindhoven)
Title: Electronic and optical properties of InAs/InP quantum dots on InP (100) and (311)B substrates : Theory and experiment
(Planned) journal: Physical Review B 74, 035312 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2006-02-07
- **ID:** 00364
Authors: J.G.Lozano, A.M.Sánchez, R.García, S.Ruffenach, O.Briot and D. González
Authors - SANDiE partners: P17 (Uni Cádiz)
Title: “Misfit relaxation of InN quantum dots: the effect of the GaN capping layer”
(Planned) journal: Applied Physics Letters 88, 151913 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-02-07
- **ID:** 00363
Authors: S. Godefroo, M. Hayne, A. Stesmans, V. Talalaev, M. Zacharias and V. V. Moshchalkov
Authors - SANDiE partners: P02 (KULeuven), P05 (MPI Halle)
Title: Magneto-optical properties of Si nanocrystals
(Planned) event: Quantum Dots Conference, QD 2006, Chamonix, France
(Planned) date of presentation: 2006-05-01 to 2006-05-05
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-01-30
- **ID:** 00362
Authors: V. Mlinar, F. M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: STRAIN DISTRIBUTION IN InAs/GaAs QUANTUM DOTS GROWN ON [11k] SUBSTRATES
(Planned) event: International Workshop on Semiconductor quantum dot based devices and applications, Institut Curie, Paris, France
(Planned) date of presentation: 2006-03-16 to 2006-03-17
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-01-25
- **ID:** 00361
Authors: S. Sauvage and P. Boucaud
Authors - SANDiE partners: P13 (Uni Paris)
Title: Intersublevel polaron laser with InAs/GaAs self-assembled quantum dots
(Planned) journal: Applied Physics Letters
(Planned) date of publication: 2006-02-07
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-01-23
- **ID:** 00360
Authors: S. Sauvage, P. Boucaud, F. Bras, C. Kammerer, G. Fishman, J.-M. Ortéga, J.-M. Gérard, G. Patriarche and A. Lemaître
Authors - SANDiE partners: P13 (Uni Paris), P11 (LPN/CNRS)
Title: Towards a mid-infrared polaron laser with InAs/GaAs self-assembled quantum dots
(Planned) event: Quantum Dots Conference, QD 2006, Chamonix, France
(Planned) date of presentation: 2006-05-01 to 2006-05-05
(Planned) journal: Physica Status Solidi b 243, vol. 15, 3895-3899 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: presented, published
Submitted to Network Office: 2006-01-23
- **ID:** 00359
Authors: Frank Glas and Jean-Christophe Harmand
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Calculation of the temperature profile in nanowhiskers growing on a hot substrate
(Planned) journal: Phys. Rev. B
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2006-01-20
- **ID:** 00358
Authors: C. Cornet, M. Hayne, A. Schliwa, F. Doré, J. Even, D. Bimberg, V. V. Moshchalkov and S. Loualiche
Authors - SANDiE partners: P12 (INSA-LENS), P02 (KU Leuven), P04 (TU Berlin)
Title: InAs/InP quantum dots (QD) : from fundamental understanding to coupled QD laser applications
(Planned) event: Quantum Dots Conference, QD 2006, Chamonix, France
(Planned) date of presentation: 2006-05-01 to 2006-05-05
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-01-16
- **ID:** 00357
Authors: F. Doré, C. Cornet, A. Ballestar, J. Even, N. Bertru, O. Dehaese, I. Alghoraibi, H. Folliot, R. Piron, A. Le Corre and S. Loualiche

Authors - SANDiE partners: P12 (INSA-LENS)
Title: First observation of 2.4 μm photoluminescence of InAsSb/InP quantum dots on InP substrate
(Planned) event: Quantum Dots Conference, QD 2006, Chamonix, France
(Planned) date of presentation: 2006-05-01 to 2006-05-05
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2006-01-16

- **ID:** 00356

Authors: J. Ibanez, R. Cusco, L. Artus, M. Henini, A. Patane, and L. Eaves
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Raman scattering of InAs/(AlGa)As self-assembled quantum dots: evidence of Al intermixing
(Planned) journal: Applied Physics Letters
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-12-24

- **ID:** 00355

Authors: A. Strittmatter, T. D. Germann, Th. Kettler, K. Posilovic, U. W. Pohl, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Alternative precursor MOCVD of InGaAs/GaAs quantum dot laser diodes with ultra-low threshold at 1.25 μm
(Planned) journal: Applied Physics Letters 88, 262104 (2006)
(Planned) date of publication: 2006-06-28
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-12-21

- **ID:** 00354

Authors: R. Timm, A. Lenz, L. Ivanova, H. Eisele, G. Balakrishnan, D. Huffaker, D. Bimberg, and M. Dähne
Authors - SANDiE partners: P04 (TU Berlin)
Title: Growth, Atomic Structure, and Type-II Band Alignment of GaSb/GaAs Quantum Dots and Rings
(Planned) event: Quantum Dots Conference, QD 2006, Chamonix, France
(Planned) date of presentation: 2006-05-01 to 2006-05-05
(Planned) journal: Special Issue Physica Status Solidi
Research paper in international journal? (y/n): y
Status: invited
Submitted to Network Office: 2005-12-20

- **ID:** 00353

Authors: Rainer Timm, Andrea Lenz, Lena Ivanova, Holger Eisele, Ganesh Balakrishnan, Diana Huffaker, and Mario Dähne
Authors - SANDiE partners: P04 (TU Berlin)
Title: Atomic structure of GaSb/GaAs quantum rings and dots studied by cross-sectional scanning tunneling microscopy
(Planned) event: Spring-Meeting of the German Physical Society, Dresden
(Planned) date of presentation: 2006-03-27 to 2006-03-31
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2005-12-20

- **ID:** 00352

Authors: E. Stock, T. Warming, R. Seguin, S. Rodt, K. Pötschke, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Spectral jitter in cathodo- versus photoluminescence of single InGaAs quantum dots
(Planned) event: Spring-Meeting of the German Physical Society, Dresden
(Planned) date of presentation: 2006-03-27 to 2006-03-31
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2005-12-20

- **ID:** 00351

Authors: R. Seguin, S. Rodt, A. Schliwa, K. Pötschke, U. W. Pohl, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Systematic size-dependence of anisotropic exchange interaction in InAs/GaAs quantum dots
(Planned) event: Spring-Meeting of the German Physical Society, Dresden
(Planned) date of presentation: 2006-03-27 to 2006-03-31
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2005-12-20

- **ID:** 00350

Authors: Kristijan Posilovic, Thorsten Kettler, Leonid Ya. Karachinsky, Vitaly A. Shchukin, Vladimir P. Kalosha, Udo W. Pohl, Nikolai N. Ledentsov, and Dieter Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg), P28 (NL Nanosemiconductor GmbH)
Title: Low divergence single-mode edge emitting 650 nm lasers based on longitudinal photonic bandgap crystal
(Planned) event: Spring-Meeting of the German Physical Society, Dresden
(Planned) date of presentation: 2006-03-27 to 2006-03-31
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2005-12-20

- **ID:** 00349

Authors: U. W. Pohl, A. Schliwa, R. Seguin, S. Rodt, K. Pötschke, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Size-tunable exchange interaction in InAs/GaAs quantum dots
(Planned) event: Spring-Meeting of the German Physical Society, Dresden

(Planned) date of presentation: 2006-03-27 to 2006-03-31

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-12-20

• **ID:** 00348

Authors: R. Seguin, A. Schliwa, S. Rodt, K. Pötschke, U.W. Pohl, D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Size-Dependent Fine-Structure Splitting in Self-Organized InAs/GaAs Quantum Dots

(Planned) journal: Phys.Rev. Lett

(Planned) date of publication: 2005-12-16

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2005-12-20

• **ID:** 00347

Authors: D. J. Vine, D. E. Jesson, M. J. Morgan, V. A. Shchukin and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Shape transitions of metastable surface nanostructures

(Planned) journal: Phys. Rev. B

(Planned) date of publication: 2005-12-09

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2005-12-20

• **ID:** 00346

Authors: A. Marent, M. Geller, A.P. Vasi'ev, E. S. Semenova, A. E. Zhukov, V. M. Ustinov, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)

Title: Carrier storage time of milliseconds at room temperature in self-organized quantum dots

(Planned) event: Spring-Meeting of the German Physical Society, Dresden

(Planned) date of presentation: 2006-03-27 to 2006-03-31

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-12-20

• **ID:** 00345

Authors: A. Lenz, R. Timm, L. Ivanova, H. Eisele, D. Martin, V. Vossebürger, A. Rastelli, O. G. Schmidt, and M. Dähne

Authors - SANDiE partners: P04 (TU Berlin), P23 (MPI Stuttgart)

Title: Structural investigations of GaAs/AlGaAs quantum dots

(Planned) event: Quantum Dots Conference, QD 2006, Chamonix, France

(Planned) date of presentation: 2006-05-01 to 2006-05-05

(Planned) journal: Special Issue Physica Status Solidi

Research paper in international journal? (y/n): y

Status: invited

Submitted to Network Office: 2005-12-20

• **ID:** 00344

Authors: Andrea Lenz, Rainer Timm, Lena Ivanova, Dominik Martin, Vivien Vossebürger, Holger Eisele, Armando Rastelli, Oliver Schmidt, and Mario Dähne

Authors - SANDiE partners: P04 (TU Berlin), P23 (MPI Stuttgart)

Title: Atomic structure of unstrained GaAs/AlGaAs quantum dots

(Planned) event: Spring-Meeting of the German Physical Society, Dresden

(Planned) date of presentation: 2006-03-27 to 2006-03-31

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-12-20

• **ID:** 00343

Authors: Matthias Lämmlin, G. Fiol, M. Kuntz, F. Hopfer, N.N. Ledentsov, A.R. Kovsh, A. Jacob, A. Umbach, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg), P28 (NL Nanosemiconductor GmbH)

Title: Dynamic and static properties of quantum-dot based semiconductor optical amplifiers at 1.3 μm

(Planned) event: Spring-Meeting of the German Physical Society, Dresden

(Planned) date of presentation: 2006-03-27 to 2006-03-31

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-12-20

• **ID:** 00342

Authors: T. Kettler, L.Ya. Karachinsky, G. Fiol, M. Kuntz, K. Posilovic, A. Lochmann, O. Schulz, L. Reissmann, N.Yu. Gordeev, I.I.

Novikov, M.V. Maximov, Yu.M. Shernyakov, N.V. Kryzhanovskaya, A.E. Zhukov, A.P. Vasilev, E.S. Semenova, V.M. Ustinov, N.N.

Ledentsov, A.R. Kovsh, V.A. Shchukin, S.S. Mikhlin, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg), P28 (NL Nanosemiconductor GmbH)

Title: 2.5 Gbit/s data transmission and 800 mW single mode filamentation free operation of InAs/InGaAs quantum dot lasers emitting at 1.5 μm

(Planned) event: Spring-Meeting of the German Physical Society, Dresden

(Planned) date of presentation: 2006-03-27 to 2006-03-31

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-12-20

• **ID:** 00341

Authors: L. Ivanova, H. Eisele, R. Timm, A. Lenz, M. Dähne, O. Schumann, L. Geelhaar, and H. Riechert

Authors - SANDiE partners: P04 (TU Berlin)

Title: Growth-related structure of InAsN/GaAs quantum dots studied by cross-sectional scanning tunneling microscopy and spectroscopy

(Planned) event: Spring-Meeting of the German Physical Society, Dresden

(Planned) date of presentation: 2006-03-27 to 2006-03-31

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-12-20

• **ID:** 00340

Authors: : Tim David Germann, André Strittmatter, Thorsten Kettler, Kristijan Posilovic, and Dieter Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Stacking of InGaAs/GaAs-based quantum dots for longwavelength laser diodes

(Planned) event: Spring-Meeting of the German Physical Society, Dresden

(Planned) date of presentation: 2006-03-27 to 2006-03-31

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-12-20

• **ID:** 00339

Authors: G. Fiol, F. Hopfer, M. Kuntz, M. Lämmlin, C. Szewc, D. Bimberg, A.R. Kovsh, and N.N. Ledentsov

Authors - SANDiE partners: P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)

Title: : 80 GHz Passive Mode Locking of InGaAs Quantum Dot Lasers Emitting at 1.3 μm

(Planned) event: Spring-Meeting of the German Physical Society, Dresden

(Planned) date of presentation: 2006-03-27 to 2006-03-31

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-12-20

• **ID:** 00338

Authors: Till Warming, Witlief Wiczorek, Martin Geller, Victor Ustinov, Alexey Zhukov, and Dieter Bimberg

Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)

Title: Wavelength- and spin-selective addressing of self-organized InAs/GaAs quantum dots by means of spectral hole burning

(Planned) event: Spring-Meeting of the German Physical Society, Dresden

(Planned) date of presentation: 2006-03-27 to 2006-03-31

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-12-20

• **ID:** 00337

Authors: I. Krestnikov, D. Livshits, S. Mikhlin, A. Kozhukhov, A. Kovsh, N. Ledentsov, and A. Zhukov

Authors - SANDiE partners: P28 (NL Nanosemiconductor), P26 (Ioffe, St. Petersburg)

Title: Reliability study of InAs/InGaAs quantum-dot diode lasers

(Planned) journal: Electronics Letters

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: accepted

Submitted to Network Office: 2005-12-19

• **ID:** 00336

Authors: V.S. Mikhlin, A.P. Vasil'ev, E.S. Semenova, N.V. Kryzhanovskaya, A.G. Gladyshev, Yu.G. Musikhin, A.Yu. Egorov, A.E. Zhukov, V.M. Ustinov

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg)

Title: Heterostructures with InAs/InGaAs/GaNAs quantum wells and quantum dots emitting at 1.4-1.8 μm

(Planned) journal: Semiconductors

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: accepted

Submitted to Network Office: 2005-12-19

• **ID:** 00335

Authors: Sales, D. L.; Pizarro, J; Galindo, P; Trevisi, G; Frigeri, P; Nasi, L; Franchi, S; Molina, S. I.

Authors - SANDiE partners: P17 (Uni Cadiz), P14 (CNR-IMEM)

Title: Strain Mapping From HRTEM Images Of Quantum Dots Structures And Comparison With FEM Simulations

(Planned) event: 2006 MRS Spring Meeting – San Francisco

(Planned) date of presentation: 2006

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-12-14

• **ID:** 00334 - deleted -

• **ID:** 00333

Authors: A. Lenz, H. Eisele, R. Timm, T. Suzuki, Y. Temko, K. Jacobi, and M. Dähne

Authors - SANDiE partners: P04 (TU Berlin)

Title: Structural changes of InAs/GaAs quantum dots studied by cross-sectional scanning tunneling microscopy

(Planned) event: : ECOSS 2005, Berlin, Germany

(Planned) date of presentation: 2005-09-06 to 2005-09-09

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-12-06

• **ID:** 00332

Authors: F. Hopfer, M. Kuntz, M. Lämmlin, G. Fiol, N. N. Ledentsov, A. R. Kovsh, S. S. Mikrin, I. Kaiander, V. Haisler, A. Lochmann, A. Mutig, C. Schubert, A. Umbach, V. M. Ustinov, U. W. Pohl and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Quantum Dot Photonics: Edge Emitter, Amplifier and VCSEL (invited paper)

(Planned) event: Int. Conf. on Advanced Optoelectronics (CAOL 2005), Yalta, Crimea, Ukraine

(Planned) date of presentation: 2005-09-12

Research paper in international journal? (y/n): n

Status: invited
Submitted to Network Office: 2005-12-06
• **ID:** 00331
Authors: Dieter Bimberg, Matthias Kuntz and Matthias Laemmlin
Authors - SANDiE partners: P04 (TU Berlin)
Title: Quantum Dots for High Speed Photonic Devices (invited talk)
(Planned) event: Contemporary Photonics Technology (CPT 2006), Tokyo, Japan
(Planned) date of presentation: 2006-01-11
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2005-12-06
• **ID:** 00330
Authors: U. W. Pohl, K. Pötschke, M. B. Lifshits, V. A. Shchukin, D. E. Jesson, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Self-organized formation of shell-like InAs/GaAs quantum dot ensembles
(Planned) journal: Applied Surface Science, 252 (2006) 5555-5558
(Planned) date of publication: 2006-01-19
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-12-06
• **ID:** 00329
Authors: V.A. Shchukin, D. Bimberg, T.P. Munt, D.E. Jesson
Authors - SANDiE partners: P04 (TU Berlin)
Title: Stability of an hexagonal array of coherently strained conical islands against Ostwald ripening
(Planned) journal: Annals of Physics
(Planned) date of publication: 2005-07-27
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-12-06
• **ID:** 00328
Authors: L. Ya. Karachinski, T. Kettler, N. Yu. Gordeev, I. I. Novikov, M. V. Maximov, Yu. M. Shernyakov, N. V. Kryzhanovskaya, A. E. Zhukov, E. S. Semenova, A. P. Vasil'ev, V. M. Ustinov, N. N. Ledentsov, A. R. Kovsh, V. A. Shchukin, S. S. Mikhrin, A. Lochmann, O. Schulz, L. Reissmann, and D. Bimberg
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH)
Title: Continuous-wave Lasing of Single-Mode Metamorphic Quantum Dot Lasers for the 1.5- μm Spectral Region
(Planned) journal: Semiconductors
(Planned) date of publication: 2005-06
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-12-06
• **ID:** 00327
Authors: H. Yi, P. Kratzer, E. Hilner, A. Mikkelsen, E. Lundgren
Authors - SANDiE partners: P27 (FHI Berlin), P06 (Uni Lund)
Title: Structure of scanning tunneling microscopy images of Au adsorbed on GaAs(111)B- $\sqrt{3}\times\sqrt{3}$ -R30
(Planned) event: Spring Meeting of the German Physical Society, Dresden, Germany
(Planned) date of presentation: 2006-03-27
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-12-06
• **ID:** 00326
Authors: Kleinsorge, P. Kratzer, M. Scheffler, B. Koiller
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Effect of Size and Shape on the Single-Particle Spectrum of InAs/GaAs Quantum Dots: a tight-binding study
(Planned) event: Spring Meeting of the German Physical Society, Dresden, Germany
(Planned) date of presentation: 2006-03-27
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-12-06
• **ID:** 00325
Authors: T. Hammerschmidt, P. Kratzer, M. Scheffler
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Understanding Growth of InAs/GaAs Nanostructures in Atomistic Detail
(Planned) event: Spring Meeting of the German Physical Society, Dresden, Germany
(Planned) date of presentation: 2006-03-27
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-12-06
• **ID:** 00324
Authors: T. Hammerschmidt, P. Kratzer, M. Scheffler
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Atomic Scale Modelling of Shape-Stability Regimes and Stacking in InAs/GaAs Quantum Dot Nanostructures
(Planned) event: March Meeting of the American Physical Society, Baltimore, USA
(Planned) date of presentation: 2006-03-06
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-12-06

- **ID:** 00323
Authors: P. Offermans, P. M. Koenraad, J. H. Wolter, D. Granados, J. M. García, V. M. Fomin, V. N. Gladilin, and J. T. Devreese
Authors - SANDiE partners: P03 (Uni Antwerpen), P07 (TU Eindhoven), P22 (CSIC, Madrid)
Title: Atomic-scale structure of self-assembled InGaAs quantum rings in GaAs
(Planned) journal: APPLIED PHYSICS LETTERS 87, 131902 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-12-01
- **ID:** 00322
Authors: A.A. Tonkikh, G.E. Cirlin, V.G. Dubrovskii, N.K. Polyakov, Yu.B. Samsonenko, Yu.G. Musikhin, P. Werner and V.M. Ustinov
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P05 (MPI Halle)
Title: Formation of semiconductor quantum dots in the subcritical thickness range
(Planned) journal: International Journal of Nanoscience, V. 6., P.339-343 (2007)
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-12-01
- **ID:** 00321
Authors: V.G.Dubrovskii, N.V.Sibirev, G.E.Cirlin, J.C.Harmand, and V.M.Ustinov
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P11 (LPN/CNRS)
Title: THEORETICAL ANALYSIS OF THE VAPOR-LIQUID-SOLID MECHANISM OF NANOWIRE GROWTH DURING MBE
(Planned) journal: Physical Review E
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2005-12-01
- **ID:** 00320
Authors: V.G.Dubrovskii, I.P.Soshnikov, N.V.Sibirev, G.E.Cirlin, and V.M.Ustinov
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg)
Title: GROWTH OF GaAs NANOSCALE WHISKERS BY MAGNETRON SPUTTERING DEPOSITION
(Planned) journal: Journal of Crystal Growth
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2005-12-01
- **ID:** 00319
Authors: V.G.Dubrovskii, G.E.Cirlin, I.P.Soshnikov, A.A.Tonkikh, N.V.Sibirev, Yu.B.Samsonenko and V.M.Ustinov
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg)
Title: MBE GROWTH OF GaAs NANOWHISKERS STIMULATED BY THE ADATOM DIFFUSION
(Planned) journal: International Journal of Nanoscience
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2005-12-01
- **ID:** 00318
Authors: T. Ben, P. Galindo, D. Granados, J. M. García and S I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz), P22 (CSIC, Madrid)
Title: Influence of the spacer layer on InAs/GaAs(001) stacked quantum rings structures
(Planned) event: workshop "Structural characterization of SAN", Eindhoven, Holland, November, 2005
(Planned) date of presentation: 2005-11
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-11-29
- **ID:** 00317
Authors: Sergio I. Molina
Authors - SANDiE partners: P17 (Uni Cadiz)
Title: HIGH RESOLUTION ELECTRON MICROSCOPY OF SELF-ASSEMBLED SEMICONDUCTOR NANOSTRUCTURES
(Planned) event: invited seminar in ORNL, Oak Ridge, TN, USA
(Planned) date of presentation: 2006-02
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2005-11-28
- **ID:** 00316
Authors: A. Michon, G. Saint-Girons, G. Beaudoin, I. Sagnes, L. Largeau and G. Patriarche
Authors - SANDiE partners: P11 (CNRS, LPN)
Title: InAs/InP(001) quantum dots emitting at 1.55 μm grown by Low-Pressure Metalorganic Vapor-Phase Epitaxy
(Planned) journal: Applied Physics Letters
(Planned) date of publication: 2005-12-26
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2005-11-25
- **ID:** 00315
Authors: C. Cornet, M. Hayne, C. Levallois, P. Caroff, L. Joulaud, E. Homeyer, C. Paranthoen, J. Even, C. Labbé, H. Folliot, V.V. Moshchalkov, S. Loualiche
Authors - SANDiE partners: P12 (INSA LENS), P02 (Uni Leuven)
Title: Increase of charge carrier redistribution efficiency in a laterally organized superlattice of coupled quantum dots

(Planned) journal: Physical Review B
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2005-11-25
 • **ID:** 00314
Authors: J.C. Harmand, G. Patriarche, N. Péré-Laperne, M-N. Mérat-Combes, L. Travers, and F. Glas
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Analysis of Vapor-Liquid-Solid mechanism in Au-assisted GaAs nanowire growth
(Planned) journal: Appl. Phys. Lett. *87*, 203101 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-11-17
 • **ID:** 00312
Authors: M.Henini
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: PROPERTIES AND APPLICATIONS OF QUANTUM DOT HETEROSTRUCTURES GROWN BY MOLECULAR BEAM EPITAXY
(Planned) journal: Nanoscale Research Letters
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-10-27
 • **ID:** 00311
Authors: Teresa Ben, David Méndez, Arturo Ponce, Rafael García, David Fuster, Yolanda González, Luisa González and Sergio I. Molina
Authors - SANDiE partners: P17 (Uni Cádiz), P22 (CSIC, Madrid)
Title: ARRANGEMENT AND MORPHOLOGY OF SELF-ASSEMBLED InAs-InP(001) QUANTUM WIRE STACKS
(Planned) journal: Journal of Crystal Growth (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2005-10-24
 • **ID:** 00310
Authors: N. V. Kryzhanovskaya, A. G. Gladyshev, S. A. Blokhin, M. V. Maksimov, E. S. Semenova, A. P. Vasil'ev, A. E. Zhukov, N. N. Ledentsov, V. M. Ustinov, and D. Bimberg
Authors - SANDiE partners: : P04 (TU Berlin), P26 (Ioffe Institute)
Title: Nonequilibrium Room-Temperature Carrier Distribution in InAs Quantum Dots Overgrown with Thin AlAs/InAlAs Layers
(Planned) journal: Semiconductors
(Planned) date of publication: 2005-10
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-10-17
 • **ID:** 00309
Authors: C. Cornet, J. Even, and S. Loulliche
Authors - SANDiE partners: P12 (INSA Rennes)
Title: Exciton and biexciton binding and vertical Stark effect in a model lens-shaped quantum box: Application to InAs/InP quantum dots
(Planned) journal: Physics Letters A 344, 457 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-10-10
 • **ID:** 00308
Authors: C. Cornet, C. Platz, P. Caroff, J. Even, C. Labbé, H. Folliot, A. Le Corre, and S. Loulliche
Authors - SANDiE partners: P12 (INSA Rennes)
Title: Approach to wetting-layer-assisted lateral coupling of InAs/InP quantum dots
(Planned) journal: Physical Review B 72, 035342 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-10-10
 • **ID:** 00307
Authors: J. Even, C. Cornet, S. Loulliche
Authors - SANDiE partners: P12 (INSA Rennes)
Title: A theoretical model for quantum nanostructures electronic wave functions, magnetic field effects
(Planned) journal: Physica E 28, 514 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-10-10
 • **ID:** 00306
Authors: C. Cornet, F. Doré, A. Ballestar, J. Even, N. Bertru, A. Le Corre and S. Loulliche
Authors - SANDiE partners: P12 (INSA Rennes)
Title: InAsSb/InP quantum dots for midwave infrared emitters : a theoretical study
(Planned) journal: Journal of Applied Physics 98, 126105 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2005-10-10
• ID: 00304
Authors: Vasily V. Temnov and Ulrike Woggon
Authors - SANDiE partners: P20 (Uni Dortmund)
Title: Superradiance and subradiance in an inhomogeneously broadened ensemble of two-level systems coupled to a low-Q cavity
(Planned) journal: PRL 95, 243602 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-10-04
• ID: 00303
Authors: K. Takehana, T. Takamasu, G. Kido, M. Henini
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Anomalous quantum Hall effect induced by nearby quantum dots
(Planned) journal: Physical Review B
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2005-09-27
• ID: 00302
Authors: J.G. Lozano , D. González, A.M. Sánchez, D. Araújo, S. Ruffenach, O. Briot and R. García
Authors - SANDiE partners: P17 (Uni Cádiz)
Title: Nucleation of InN quantum dots on GaN by metalorganic vapour phase epitaxy
(Planned) journal: Applied Physics Letters 87 (2005) 263104
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-09-23
• ID: 00301
Authors: J.G. Lozano , D. González, A.M. Sánchez, D. Araújo, S. Ruffenach, O. Briot and R. García
Authors - SANDiE partners: P17 (Uni Cádiz)
Title: Structural characterization of InN quantum dots grown by metalorganic vapour phase epitaxy
(Planned) event: 6th International Conference on Nitride Semiconductors (ICNS6, Bremen 2005)
(Planned) date of presentation: 2005-08-28 to 2005-09-02
(Planned) journal: Physica Status Solidi (c) 3, Nr 6, 1687-1690 (2006)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-09-23
• ID: 00300
Authors: M. Laemmlin, G. Fiol, M. Kuntz, F. Hopfer, A. Mutig, N.N.Ledentsov, A.R. Kovsh, C. Schubert, A. Jacob, A. Umbach and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P28 (NL Nanosemiconductors)
Title: Quantum Dot Based Photonic Devices at 1.3 μm : Direct Modulation, Mode-locking, SOAs and VCSELs
(Planned) journal: Physica status solidi (c) 3, No. 3, 391–394 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-09-20
• ID: 00299
Authors: Martin Geller, Andreas Marent, Erik Stock, Alexey P. Vasi'ev, Elisaveta S. Semenova, Alexey E. Zhukov, Victor M. Ustinov, and Dieter Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)
Title: Carrier storage and confinement in GaAs-based self-organized quantum dots
(Planned) journal: : Physica status solidi (c) 3, No. 504-507
(Planned) date of publication: 2006-02-22br> **Research paper in international journal? (y/n):** y
Status: published
Submitted to Network Office: 2005-09-20
• ID: 00298
Authors: M. Geller, E. Stock, C. Kapteyn, R. L. Sellin, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Tunneling emission from self-organized In_xGa_{1-x}As/GaAs quantum dots observed via time-resolved capacitance measurements
(Planned) journal: Physical review B 73, 205331 (2006)
(Planned) date of publication: 2006-05-17
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-09-20
• ID: 00297
Authors: M. Geller, E. Stock, R. L. Sellin, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Direct observation of tunneling emission to determine localization energies in self-organized In(Ga)As quantum dots
(Planned) journal: Physica E
(Planned) date of publication: 2005-12-01
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2005-09-20

- **ID:** 00296
Authors: M.B. Lifshits, V.A.Shchukin, D. Bimberg, D.E. Jesson
Authors - SANDiE partners: P26 (Ioffe Institute), P04 (TU Berlin)
Title: Novel growth mechanism of strained islands: Multimodal closed-shell distribution of quantum dots
(Planned) event: 13th Int. Symp. Nanostructures: Physics and Technology (NANO 2005), 2005-06-20 to 2005-06-25, St Petersburg, Russian Federation
(Planned) date of presentation: 2005-06-23
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-09-20
- **ID:** 00295
Authors: M. Kuntz, G. Fiol, M. Lämmlin, D. Bimberg, A.R. Kovsh, S.S. Mikhrin, A.V. Kozhukhov, N.N. Ledentsov, C. Schubert, V.M. Ustinov, A.E. Zhukov, Yu.M. Shernyakov, A. Jacob, and A. Umbach
Authors - SANDiE partners: : P04 (TU Berlin), P28 (NL Nanosemiconductor GmbH), P26 (Ioffe Institute)
Title: 10 Gb/s Data Modulation and 50 GHz Mode Locking using 1.3 μm InGaAs Quantum Dot Lasers
(Planned) event: 13th Int. Symp. Nanostructures: Physics and Technology (NANO 2005), 2005-06-20 to 2005-06-25, St Petersburg, Russian Federation
(Planned) date of presentation: : 2005-06-21
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-09-20
- **ID:** 00294
Authors: : M. Laemmlin, G. Fiol, M. Kuntz, F. Hopfer, A. Mutig, N.N.Ledentsov, A.R. Kovsh, C. Schubert, A. Jacob, A. Umbach and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P28 (NL Nanosemiconductors)
Title: Quantum Dot Based Photonic Devices at 1.3 μm : Direct Modulation, Modelocking, VCSELs and SOAs (contributed talk)
(Planned) event: The 32nd Internat. Symp.on Compound Semiconductors (ISCS-2005), September 18 - 22, 2005, Freiburg, Germany
(Planned) date of presentation: 2005-09-20
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-09-20
- **ID:** 00293
Authors: M. Geller, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Self-organized quantum dots for future memory devices
(Planned) event: 14th International Workshop on Heterostructure Technology, 2005-10-02 to 2005-10-05, Smolenice, Slovakia (invited talk)
(Planned) date of presentation: 2005-10-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-09-20
- **ID:** 00292
Authors: V. M. Axt, T. Kuhn, A. Vagov, F. M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Phonon-induced pure dephasing in exciton-biexciton quantum dot systems driven by ultrafast laser pulse sequences
(Planned) journal: PHYSICAL REVIEW B 72, 125309, 2005
(Planned) date of publication: 2005-09-08
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-09-15
- **ID:** 00291
Authors: S. Laurent, S. Varoutsis, L. Le Gratiet, A. Lemaître, I. Sagnes, F. Raineri, A. Levenson, I. Robert-Philip and I. Abram
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Indistinguishable single photons from a single quantum dot in a two-dimensional Photonic Crystal cavity
(Planned) journal: Applied Physics Letters
(Planned) date of publication: 2005-10
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2005-09-13
- **ID:** 00290
Authors: R. J. Young, R. M. Stevenson, A. J. Shields, P. Atkinson, K. Cooper, D. A. Ritchie, K. M. Groom and M. S. Skolnick
Authors - SANDiE partners: P25 (Toshiba), P08 (Uni Sheffield)
Title: Inversion of exciton level splitting in quantum dots
(Planned) journal: Physical Review B, 72, 113305 (2005)
(Planned) date of publication: 2005-09-08
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-09-02
- **ID:** 00289
Authors: S.I.Molina, T. Ben, D. Fuster, Y. González and L. González
Authors - SANDiE partners: P17 (Uni Cadiz), P22 (CSIC, Madrid)
Title: HIGH RESOLUTION ELECTRON MICROSCOPY OF SELF-ASSEMBLED InAs NANOWIRES
(Planned) event: workshop "Structural characterization of SAN", Eindhoven, Holland, November, 2005
(Planned) date of presentation: 2005-11
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2005-08-25

- **ID:** 00288
Authors: B. Eble, O. Krebs, A. Lemaitre, B. Urbaszek, T. Amand, X. Marie and P. Voisin
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Dynamical nuclear polarization of a single charge-tunable InAs/GaAs quantum dot
(Planned) event: 9th conference on Optics of Excitons in Confined Systems, Southampton, September 5-10, 2005
(Planned) date of presentation: 2005-09-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-08-11
- **ID:** 00287
Authors: B. Eble, O. Krebs, A. Lemaitre, K. Kowalik, A. Kudelski, P. Voisin, B. Urbaszek, X. Marie, and T. Amand
Authors - SANDiE partners: P11 (LPN-CNRS)
Title: Dynamical nuclear polarization of a single charge-tunable InAs/GaAs quantum dot
(Planned) journal: Phys. Rev. Lett.
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2005-08-11
- **ID:** 00286
Authors: V.M. Axt, T. Kuhn, A. Vagov, F. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Phonon induced pure dephasing in exciton-biexciton quantum dot systems driven by ultrafast laser pulse sequences
(Planned) journal: Physical Review B
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2005-08-11
- **ID:** 00284
Authors: H. Paetzelt, V. Gottschalch, H. Herrmberger, G. Benndorf, J. Lenzner, G. Wagner
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Preparing of AlInBv micro-tubes with uniaxially strained GaAs quantum wells by metal-organic vapour-phase epitaxy
(Planned) journal: EWMOVPE XI ,Extended Abstracts, Lausanne 2005, A11
(Planned) date of publication: 2005-06-05
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2005-07-25
- **ID:** 00283
Authors: J. Bauer, V. Gottschalch , H. Herrmberger, G. Wagner, G. Benndorf
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: MOVPE growth study of free-standing GaAs-Nanowires
(Planned) journal: EWMOVPE XI ,Extended Abstracts, Lausanne 2005, A14
(Planned) date of publication: 2005-06-05
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2005-07-25
- **ID:** 00282
Authors: A. Rahm, M. Lorenz, T. Nobis, G. Zimmermann, M. Grundmann, B. Fuhrmann, F. Syrowatka
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: PULSED LASER DEPOSITION AND CHARACTERIZATION OF ZnO NANOWIRES WITH REGULAR LATERAL ARRANGEMENT
(Planned) event: SOXESS workshop 2005, Gallipoli, Italien.
(Planned) date of presentation: 2005-09-28 to 2005-10-02
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2005-07-18
- **ID:** 00281
Authors: R. Schmidt-Grund, T. Nobis, V. Gottschalch, B. Rheinländer, H. Herrmberger, M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: a-Si/SiOx Bragg-reflectors on micro-structured InP
(Planned) journal: Thin Solid Films 483, 257 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-18
- **ID:** 00280
Authors: M. Geddo, G. Guizzetti, M. Patrini, T. Ciabattini, L. Seravalli, P. Frigeri and S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Metamorphic buffers and optical measurement of residual strain
(Planned) journal: Appl Phys Lett 87 263120 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-18
- **ID:** 00279
Authors: Francisco Miguel Morales, Teresa Ben y Jörg Pezoldt
Authors - SANDiE partners: P17 (Uni Cádiz)
Title: Nano-hetero-estructuras basadas en poltipos de SiC crecidas sobre Si mediante CVD

(Planned) event: XXII Biennale Meeting of SME, Granada (Spain)
(Planned) date of presentation: 2005-04-28
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-13

- **ID:** 00278
Authors: Teresa Ben, Sergio I. Molina, Daniel Granados y Jorge M García
Authors - SANDiE partners: P17 (Uni Cádiz), P22 (CSIC, Madrid)
Title: Efecto de la capa espaciadora en estructuras apiladas de anillos cuánticos de InAs/GaAs(001)
(Planned) event: XXII Biennale Meeting of SME, Granada (Spain)
(Planned) date of presentation: 2005-04-28
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-13
- **ID:** 00277
Authors: K. Takehana, T. Takamasu, G. Kido, M. Henini and L. Eaves
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Anomalous quantum Hall effect induced by nearby quantum dots
(Planned) event: International Conference on Electronic Properties of Two-Dimensional Systems (EP2DS), USA
(Planned) date of presentation: 2005-07-11 to 2005-07-15
(Planned) journal: Physica E 34 (2006) 148–151
(Planned) date of publication: 2006-04-17
Research paper in international journal? (y/n): y
Status: presented, published
Submitted to Network Office: 2005-07-08
- **ID:** 00276
Authors: D. Walker, F. Pulizzi, A. Patané, L. Eaves, D. Granados, J. M. Garcia, M. Henini, V. V. Rudenkov, P. C. M. Christianen, J.C. Maan, P. Offermans, P. M. Koenraad, and G. Hill
Authors - SANDiE partners: P09 (Uni Nottingham), P22 (CSIC Madrid), P07 (TU Eindhoven), P08 (Uni Sheffield)
Title: Magnetotunneling spectroscopy of ring-shaped (InGa)As quantum dots: evidence of excited states with 2pz character
(Planned) event: 12th International Conference on Modulated Semiconductor Structures (MSS-12), USA
(Planned) date of presentation: 2005-07-11 to 2005-07-15
(Planned) journal: Physica E 32 (2006) 57–60
(Planned) date of publication: 2006-01-31
Research paper in international journal? (y/n): y
Status: presented, published
Submitted to Network Office: 2005-07-08
- **ID:** 00275
Authors: N. Garro, A. Cros, J. A. Budagoski, A. Cantarero, A. Vinattieri, M. Gurioli, S. Founta, H. Mariette, B. Daudin
Authors - SANDiE partners: P16 (Uni Valencia)
Title: Reduction of the internal electric field in wurtzite a-plane GaN self-assembled quantum dots
(Planned) journal: Applied Physics Letters 87, 011101 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-07
- **ID:** 00274
Authors: A. Tsormpatzoglou, N. A. Hastas, D. H. Tassis, C. A. Dimitriadis, G. Kamarinos, P. Frigeri, S. Franchi, E. Gombia, and R. Mosca
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Low-frequency noise spectroscopy in Au/n-GaAs Schottky diodes with InAs quantum dots
(Planned) journal: Applied Physics Letters 87 163109 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-06
- **ID:** 00273
Authors: C. Cornet, C. Levallois, P. Caroff, H. Folliot, C. Labbé, J. Even, A. Le Corre and S. Lualiche, M. Hayne and V.V. Moshchalkov
Authors - SANDiE partners: P02 (KU Leuven), P12 (INSA Rennes)
Title: Impact of the capping layers on lateral confinement in InAs/InP quantum dots for 1.55 μm laser applications studied by magneto-photoluminescence
(Planned) journal: Applied Physics Letters 87, 233111 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-05
- **ID:** 00272
Authors: N.N. Ledentsov, A.R. Kovsh, V.A. Shchukin, S.S. Mikhlin, I.L. Krestnikov, A.V. Kozhukhov, L.Ya. Karachinsky, M.V. Maximov, I.I. Novikov, Yu.M. Shernyakov, I.P. Soshnikov, A.E. Zhukov, E.L. Portnoi, V.M. Ustinov, D. Gerthsen, P. Battacharya, N.F. Zakharov, P. Werner, F. Hopfer, M. Kuntz, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P28 (Nanosemiconductor), P26 (Ioffe), P05 (MPI Halle)
Title: QP Lasers: Physics and Applications
(Planned) journal: Semiconductor and Organic Optoelectronic Materials and Devices
(Planned) date of publication: 2005
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2005-07-04

- **ID:** 00271
Authors: Dieter Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Quantum dots for lasers, amplifiers and computing
(Planned) journal: J. Phys. D: Appl. Phys. 38 (2005) 2055-2058
(Planned) date of publication: 2005-06-17
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-04
- **ID:** 00270
Authors: M. Hayne, O. Razinkova, S. Bersier, K. Pötschke, M. Geller, D. Bimberg and V.V. Moshchalkov
Authors - SANDiE partners: P04 (TU Berlin), P02 (KU Leuven)
Title: Optical control of hole occupancy of type-II GaSb/GaAs self-assembled quantum dots
(Planned) event: Quantum Dot Workshop, University of Antwerpen, Belgium
(Planned) date of presentation: 2005-01-28
Research paper in international journal? (y/n): n
Status:
Submitted to Network Office: 2005-07-04
- **ID:** 00269
Authors: A. Lenz, H. Eisele, R. Timm, S.K. Becker, R.L. Sellin, U.W. Pohl, D. Bimberg, and M. Dähne
Authors - SANDiE partners: P04 (TU Berlin)
Title: Limits of InGaAs/GaAs quantum dot growth studied by cross-sectional scanning tunneling microscopy
(Planned) event: EW-MOVPE XI, Lausanne (Switzerland)
(Planned) date of presentation: 2005-06-05 to 2005-06-08
Research paper in international journal? (y/n): n
Status:
Submitted to Network Office: 2005-07-04
- **ID:** 00268
Authors: D. Bimberg, M. Kuntz, M. Lämmlin
Authors - SANDiE partners: P04 (TU Berlin)
Title: Quantum dot photonic devices for lightwave communication
(Planned) journal: Microelectronics J. , special issue: Low Dimensional Structures and Device Conference, (ed. M. Henini, I. Hernandez-Calderon)
(Planned) date of publication: 2005-03-16
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-04
- **ID:** 00267
Authors: M. Kuntz, G. Fiol, M. Lämmlin, C. Schubert, A. Kovsh, A. Jacob, A. Umbach, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: 10 Gb/s data modulation using 1.3 μm InGaAs quantum dots lasers
(Planned) journal: Elec. Lett. 41, No. 5
(Planned) date of publication: 2005-03-03
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-04
- **ID:** 00266
Authors: A. F. Slachmuylders, B. Partoens, W. Magnus, and F. M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Exciton states in cylindrical nanowires
(Planned) journal:
(Planned) date of publication: 2005
Research paper in international journal? (y/n): n
Status: preprint
Submitted to Network Office: 2005-07-04
- **ID:** 00265
Authors: E.W. Bogaart, R. Nötzel, Q. Gong, J.E.M. Haverkort, and J.H. Wolter
Authors - SANDiE partners: P07 (TU Eindhoven)
Title: Ultra-fast carrier capture at room temperature in InAs/InP quantum dots emitting in the 1.55 μm wavelength region
(Planned) journal: Appl. Phys. Lett. 86 (2005) 173109
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-01
- **ID:** 00264
Authors: D. Zhou, R. Nötzel, Q. Gong, P. Offermans, P.J. Veldhoven, F.W.M. van Otten, T.J. Eijkemans, J.H. Wolter
Authors - SANDiE partners: P07 (TU Eindhoven)
Title: (In,Ga)As sidewall quantum wires on shallow-patterned InP (311)A
(Planned) journal: Journal of Applied Physics 97, 063510 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-01
- **ID:** 00263
Authors: N. Zurauskiene, S. Marcinkevicius, G. Janssen, E. Goovaerts, R. Nötzel, P.M. Koenraad, J.H. Wolter
Authors - SANDiE partners: P07 (TU Eindhoven)
Title: Optically detected microwave resonance and carrier dynamics in InAs/GaAs quantum dots

(Planned) journal: Acta Physica Polonica A 107, 435-439 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-01
 • **ID:** 00262
Authors: P. Offermans, P. M. Koenraad, J. H. Wolter, K. Pierz, M. Roy, P. A. Maksym
Authors - SANDiE partners: P07 (TU Eindhoven)
Title: Formation of InAs quantum dots and wetting layers in GaAs and AlAs analyzed by cross-sectional scanning tunneling microscopy
(Planned) journal: Physica E 27, 236-240 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-01
 • **ID:** 00261
Authors: M.D. Croitoru, V.N. Gladilin, V.M. Fomin, J.T. Devreese, M.Kemerink, P.M. Koenraad, K. Sauthoff and J.H. Wolter
Authors - SANDiE partners: P07 (TU Eindhoven)
Title: Influence of the characteristics of the STM-tip on the electroluminescence spectra
(Planned) journal: Physica E 27, 13-20 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-01
 • **ID:** 00260
Authors: E.W. Bogaart, J.E.M. Haverkort, T. Mano, R. Nötzel, J.H. Wolter, P. Lever, H.H. Tan, and C. Jagadish
Authors - SANDiE partners: P07 (TU Eindhoven)
Title: Picosecond time-resolved bleaching dynamics of self-assembled quantum dots
(Planned) journal: IEEE Transactions on Nanotechnology 3 (2004) 348-352
(Planned) date of publication: 2004
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-01
 • **ID:** 00259
Authors: N. Zurauskiene, S.S. Asmontas, S. Dargys, J. Kundrotas, G. Janssen, E. Goovaerts, S. Marcinkevicius, P.M. Koenraad, J.H. Wolter, R. Leon
Authors - SANDiE partners: P07 (TU Eindhoven)
Title: Semiconductor nanostructures for infrared applications
(Planned) journal: Solid State Phenomena 99-100, 99-108 (2004)
(Planned) date of publication: 2004
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-01
 • **ID:** 00258
Authors: Q. Gong, P. Offermans, R. Nötzel, P.M. Koenraad and J.H. Wolter
Authors - SANDiE partners: P07 (TU Eindhoven)
Title: Capping process of InAs/GaAs quantum dots studied by cross-sectional scanning tunneling microscopy
(Planned) journal: APL 85, 5697-5699(2004)
(Planned) date of publication: 2004
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-01
 • **ID:** 00257
Authors: J. He, R. Nötzel, P. Offermans, P.M. Koenraad, Q. Gong, G.J.Hamhuis, T.J. Eijkemans and J.H. Wolter
Authors - SANDiE partners: P07 (TU Eindhoven)
Title: Formation of columnar (In,Ga)As quantum dots on GaAs (100) substrate
(Planned) journal: APL 85, 2771-2773 (2004)
(Planned) date of publication: 2004
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-01
 • **ID:** 00256
Authors: P. Offermans, P. M. Koenraad, J. H. Wolter, K. Pierz, M. Roy, P. A. Maksym
Authors - SANDiE partners: P07 (TU Eindhoven)
Title: InAs quantum dot and wetting layer formation in GaAs and AlAs analyzed by cross-sectional scanning tunneling microscopy
(Planned) journal: Physics of Low Dimensional Structures 1/2, 1-8 (2004)
(Planned) date of publication: 2004
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-07-01
 • **ID:** 00255
Authors: M.D. Croitoru, V.N. Gladilin, V.M. Fomin, J.T. Devreese, M.Kemerink, P.M. Koenraad, K. Sauthoff, J.H. Wolter
Authors - SANDiE partners: P07 (TU Eindhoven)
Title: Electroluminescence Spectra of an STM-Tip-Induced Quantum Dot
(Planned) journal: Physica E 21, 270-274 (2004)
(Planned) date of publication: 2004
Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2005-07-01
• **ID:** 00254
Authors: S.Schneider, U. Woggon, P. Borri, W. Langbein, D. Ouyang, R.L. Sellin, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P20 (Uni Dortmund)
Title: Ultrafast Gain Recovery Dynamics of the Excited State in InGaAs Quantum Dot Amplifiers (poster)
(Planned) event: CLEO 2005, Baltimore, USA, 2005-05-22 to 2005-05-27
(Planned) date of presentation: 2005-05-26
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-01
• **ID:** 00253
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Quantum Dot Nanostructures: Paradigm Changes in Semiconductor Physics
(Planned) event: Van der Waals-Zeeman Colloquium, Amsterdam, Netherlands, April 2005 (invited talk)
(Planned) date of presentation: 2005-04-19
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-01
• **ID:** 00252
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Physik der Nanomaterialien - von der Nanostruktur zum photonischen Bauelement
(Planned) event: Forschungsschwerpunkt Photonik, TU Berlin, Germany, April 2005 (invited talk)
(Planned) date of presentation: 2005-04-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-01
• **ID:** 00251
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Quantum dot lasers: Novel sources of picosecond high frequency pulses
(Planned) event: Intern. Symp. on Nanoscience and -Technology, Mauterndorf, Austria, March 2005 (invited talk)
(Planned) date of presentation: 2005-03-29
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-01
• **ID:** 00250
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Nanophotonic Devices and System
(Planned) event: PHASE 2005, International Workshop on Physics & Applications of Semiconductor Lasers, Metz, France, March 2005 (invited talk)
(Planned) date of presentation: 2005-03-30
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-01
• **ID:** 00249
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Geometry, many-particle effects and quantum onions
(Planned) event: International Symposium on Science and Society, St. Petersburg, Russia, March 2005 (invited talk)
(Planned) date of presentation: 2005-03-14
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-01
• **ID:** 00248
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Quantum Dot Lasers: Novel Sources for Picosecond High Frequency Pulses
(Planned) event: International Symposium on Quantum Dots and Photonic Crystals 2005, Tokyo, Japan, March 2005 (invited talk)
(Planned) date of presentation: 2005-03
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-01
• **ID:** 00247
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Quantum Dots for Lasers, Amplifiers and Photonic Systems
(Planned) event: OFC Optical Fiber Communication Conference 2005 Anaheim, California, USA, March 2005 (invited talk)
(Planned) date of presentation: 2005-03-09
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-01
• **ID:** 00246
Authors: D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)
Title: Auf dem Weg zu den kleinsten Dingen - Nanos für das Jahrhundert der Photonik und Medizin
(Planned) event: Präsenzabend des Lions Club Berlin-Sanssouci, Hotel Adlon, Berlin, Germany, February 2005 (invited talk)
(Planned) date of presentation: 2005-02-28
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-01
 • ID: 00245
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Halbleiter-Nanostrukturen
(Planned) event: Physikzentrum Bad Honnef, Germany, February 2005 (invited talk)
(Planned) date of presentation: 2005-02-11
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-01
 • ID: 00244
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Quantum dot lasers: Novel sources for picosecond high frequency pulses
(Planned) event: 5th Intern. Conf. on Low Dimensional Structures and Devices 2004, Cancun, Mexico, December 2004 (plenary talk)
(Planned) date of presentation: 2004-12
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-01
 • ID: 00243
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Modellierung der elektronischen Eigenschaften von Nanostrukturen
(Planned) event: Fakultätskolloquium, TU Berlin, Germany, November 2004 (invited talk)
(Planned) date of presentation: 2004-11-18
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-01
 • ID: 00242
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Forschungsstandort Europa: Rahmenbedingungen für eine wettbewerbsfähige Forschung aus der Sicht des Forschungsalltags
(Planned) event: Expertengespräch, Europäische Forschungsförderung, Akademie der Konrad-Adenauer-Stiftung, Berlin, Germany, September 2004 (plenary talk)
(Planned) date of presentation: 2004-09-17
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-01
 • ID: 00241
Authors: D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Quantum dot nanostructures: Paradigm changes in semiconductor physics
(Planned) event: 20th General Conf. of the Condensed Matter Division of the European Physical Society, Prague, Czech Republic, July 2004 (plenary talk)
(Planned) date of presentation: 2004-07-19
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-01
 • ID: 00240
Authors: E. E. Vdovin, Yu. N. Khanin, S. V. Dubonos, Yu. V. Dubrovskii, L. Eaves and M. Henini
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Single electron transport in split gate structures containing InAs self-assembled quantum dots
(Planned) event: 13th International Symposium on "Nanostructures: Physics and Technology"; St Petersburg, Russia
(Planned) date of presentation: 2005-06-20 to 2005-06-25
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-07-01
 • ID: 00239
Authors: B. Szafran, T. Chwiej, F. M. Peeters, S. Bednarek, and J. Adamowski
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Relative stability of negative and positive trions in model symmetric quantum wires
(Planned) journal: PHYSICAL REVIEW B 71, 235305 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-28
 • ID: 00238
Authors: V. Mlinar, M. Tadic, B. Partoens, and F. M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Nonsymmetrized Hamiltonian for semiconducting nanostructures in a magnetic field
(Planned) journal: PHYSICAL REVIEW B 71, 205305 (2005)

(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-28
 • **ID:** 00237
Authors: B. Szafran, T. Chwiej, F. M. Peeters, S. Bednarek, J. Adamowski, and B. Partoens
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Exciton and negative trion dissociation by an external electric field in vertically coupled quantum dots
(Planned) journal: PHYSICAL REVIEW B 71, 205316 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-28
 • **ID:** 00236
Authors: K. Nelissen, A. Matulis, B. Partoens, M. Kong and F.M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Spectrum of classical two dimensional Coulomb clusters
(Planned) journal: Phys. Rev. E 73, 016607 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-23
 • **ID:** 00235
Authors: S. Magalhães, A. Fonseca, N. Franco, N.P. Barradas, N.A. Sobolev, R. Hey, H. Grahn, E. Alves
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Damage behaviour of GaAs/AlAs multilayer structures
(Planned) journal: Nuclear Instruments and Methods B Vol. 249 (2006) 890
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
 • **ID:** 00234
Authors: A. Fonseca, N.P. Barradas, J.P. Leitão, N.A. Sobolev, M.C. Carmo, A.I. Nikiforov, E. Alves
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: RBS/Channeling study of buried Ge quantum dots grown in a Si layer
(Planned) journal: Nuclear Instruments and Methods B, Vol. 249 (2006) 462
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
 • **ID:** 00233
Authors: A. Fonseca, E. Alves, J. Leitão, N.A. Sobolev, M.C. Carmo, A.I. Nikiforov
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Optical and structural analysis of Ge/Si quantum dots grown on a Si(001) surface covered with a SiO₂ sub-monolayer
(Planned) journal: International Journal of Nanoscience Vol. 6 (2007) 245
(Planned) date of publication: 2007
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2005-06-21
 • **ID:** 00232
Authors: N.A. Sobolev, M.A. Oliveira, V.S. Amaral, A. Neves, M.C. Carmo, W. Wesch, O. Picht, E. Wendler, U. Kaiser, J. Heinrich
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Ferromagnetism and ferromagnetic resonance in Mn and As co-implanted Si and GaAs
(Planned) journal: Materials Science and Engineering B, Vol. 126 (2006) 148
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
 • **ID:** 00231
Authors: A. Fonseca, E. Alves, J.P. Leitão, N.A. Sobolev, M.C. Carmo, A.I. Nikiforov
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Optical and structural study of Ge/Si quantum dots on Si(100) surface covered with a thin silicon oxide layer
(Planned) journal: Materials Science and Engineering B, Vol. 124-125 (2005) 462
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
 • **ID:** 00230
Authors: N.A. Sobolev, M.A. Oliveira, V.S. Amaral, A. Neves, M.C. Carmo, W. Wesch, O. Picht, E. Wendler, U. Kaiser, J. Heinrich
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Ferromagnetism and Ferromagnetic Resonance in Mn Implanted Si and GaAs
(Planned) journal: Mater. Sci. Forum, Vols. 514-516 (2006) 280
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21

- **ID:** 00229
Authors: A. Fonseca, E. Alves, J.P. Leitão, N.A. Sobolev, M.C. Carmo, A.I. Nikiforov
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Ion beam analysis of Ge/Si dots grown on ultrathin SiO₂ interlayers
(Planned) journal: Mater. Sci. Forum, Vols. 514-516 (2006) 1121
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
- **ID:** 00228
Authors: A.I. Nikiforov, V.V. Ulyanov, O.P. Pchelyakov, S.A. Teys, A.K. Gutakovskii, A. Fonseca, J.P. Leitão, N.A. Sobolev
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Influence of the thickness of the silicon oxide on the properties of germanium nanoislands (in Russian)
(Planned) journal: Proc. Symp. Nanophysics and Nanoelectronics, Nizhni Novgorod, Russia, 25.–29.03.2005 (IFM RAN, Nizhni Novgorod, vol. 2, p. 330).
(Planned) date of publication: 2005
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2005-06-21
- **ID:** 00227
Authors: T.M. Burbaev, V.A. Kurbatov, M.M. Rzaev, A.O. Pogosov, N.N. Sibeldin, V.A. Tsvetkov H. Lichtenberger, F. Schäffler, J.P. Leitão, N.A. Sobolev, M.C. Carmo
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Morphological transformation of a germanium layer grown on a silicon surface by molecular-beam epitaxy at low temperatures
(Planned) journal: Fiz. Tverdogo Tela, Vol. 47 (2005) 70 [Engl. cover-to-cover translation: Phys. of the Solid State, Vol. 47 (2005) 71]
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
- **ID:** 00226
Authors: A. Fonseca, N. Franco, E. Alves, N.P. Barradas, J.P. Leitão, N.A. Sobolev, D. Babonneau, D.F. Banhart, H. Presting, V.V. Ulyanov, A.I. Nikiforov
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: High resolution backscattering studies of nanostructured magnetic and semiconducting materials
(Planned) journal: Nucl. Instr. and Methods B, Vol. 241 (2005) 454
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
- **ID:** 00225
Authors: J.P. Leitão, A. Fonseca, N.A. Sobolev, M.C. Carmo, N. Franco, A.D. Sequeira, T.M. Burbaev, V.A. Kurbatov, M.M. Rzaev, A.O. Pogosov, N.N. Sibeldin, V.A. Tsvetkov, H. Lichtenberger, F. Schäffler
Authors - SANDiE partners: P15 (Uni Aveiro)
Title: Low temperature molecular beam epitaxy of Ge on Si
(Planned) journal: Materials Science in Semiconductor Processing, Vol. 8 (2005) 35
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
- **ID:** 00224
Authors: S. Seidl, M. Kroner, P. A. Dalgarno, J. M. Smith, A. Högele, M. Ediger, B. D. Gerardot, J. M. Garcia, P. M. Petroff, K. Karrai, and R. J. Warburton
Authors - SANDiE partners: P10 (Heriot-Watt Uni), P22 (CSIS, Madrid)
Title: Absorption and photoluminescence spectroscopy on a single self-assembled charge-tunable quantum dot
(Planned) journal: Phys. Rev. B 72, 195339 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
- **ID:** 00223
Authors: M. Ediger, P. A. Dalgarno, J. M. Smith, B. D. Gerardot, R. J. Warburton, K. Karrai, and P. M. Petroff
Authors - SANDiE partners: P10 (Heriot-Watt Uni)
Title: Controlled generation of neutral, negatively charged and positively charged excitons in the same single quantum dot
(Planned) journal: Appl. Phys. Lett. 86, 211909 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
- **ID:** 00222
Authors: T. C. M. Graham, X. Tang, K. A. Prior, B. C. Cavenett, and R. J. Warburton
Authors - SANDiE partners: P10 (Heriot-Watt Uni)
Title: Increasing the spectral separation between the emission lines from individual CdSe quantum dots through annealing
(Planned) journal: J. Cryst. Growth 278, 743-746 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21

- **ID:** 00221
Authors: A. Högele, M. Kroner, S. Seidl, K. Karrai, M. Atature, J. Dreiser, A. Imamoglu, R. J. Warburton, A. Badolato, B. D. Gerardot, and P. M. Petroff
Authors - SANDiE partners: P10 (Heriot-Watt Uni)
Title: Spin-selective optical absorption of singly charged excitons in a quantum dot
(Planned) journal: Appl. Phys. Lett. 86, 221905 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
- **ID:** 00220
Authors: J. M. Smith, P. A. Dalgarno, R. J. Warburton, K. Karrai, B. D. Gerardot, and P. M. Petroff
Authors - SANDiE partners: P10 (Heriot-Watt Uni)
Title: Voltage-control of the spin dynamics of an exciton in a semiconductor quantum dot
(Planned) journal: Phys. Rev. Lett. 94, 197402 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
- **ID:** 00219
Authors: A. Högele, S. Seidl, M. Kroner, K. Karrai, R. J. Warburton, M. Atature, J. Dreiser, A. Imamoglu, B. D. Gerardot, and P. M. Petroff
Authors - SANDiE partners: P10 (Heriot-Watt Uni)
Title: Voltage-controlled electron-hole interaction in a single quantum dot
(Planned) journal: J. Superconductivity 18, 245-249 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
- **ID:** 00218
Authors: A. Balocchi, A. Curran, T. C. M. Graham, C. Bradford, K. A. Prior, and R. J. Warburton
Authors - SANDiE partners: P10 (Heriot-Watt Uni)
Title: Epitaxial liftoff of ZnSe-based heterostructures using a II-VI release layer
(Planned) journal: Appl. Phys. Lett. 86, 011915 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
- **ID:** 00217
Authors: R. J. Warburton, B. Urbaszek, E. J. McGhee, C. Schulhauser, A. Högele, K. Karrai, B. D. Gerardot, and P. M. Petroff
Authors - SANDiE partners: P10 (Heriot-Watt Uni)
Title: Charged magneto-exciton states in semiconductor quantum dots
(Planned) journal: Physica E 26, 45-50 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
- **ID:** 00216
Authors: C. Schulhauser, A. Högele, A. O. Govorov, R. J. Warburton, K. Karrai, J. M. Garcia, B. D. Gerardot, and P. M. Petroff
Authors - SANDiE partners: P10 (Heriot-Watt Uni), P22 (CSIC, Madrid)
Title: Magneto-excitonic states in charge-tunable self-assembled quantum dots
(Planned) journal: Physica E 25, 233-241 (2004)
(Planned) date of publication: 2004
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
- **ID:** 00215
Authors: A. Högele, S. Seidl, M. Kroner, K. Karrai, R. J. Warburton, B. D. Gerardot, and P. M. Petroff
Authors - SANDiE partners: P10 (Heriot-Watt Uni)
Title: Voltage-controlled optics of a quantum dot
(Planned) journal: Phys. Rev. Lett. 93, 217401 (2004)
(Planned) date of publication: 2004
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
- **ID:** 00214
Authors: B. Urbaszek, R. J. Warburton, K. Karrai, C. Schulhauser, A. Högele, E. J. McGhee, A. O. Govorov, B. D. Gerardot, X. Marie, T. Amand, and P. M. Petroff
Authors - SANDiE partners: P10 (Heriot-Watt Uni)
Title: Spin-dependent coupling of charged quantum dot excitons with continuum states
(Planned) journal: Acta Physica Polonica A 106, 395-402 (2004)
(Planned) date of publication: 2004
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-21
- **ID:** 00213
Authors: R. Santoprete, P. Kratzer, M. Scheffler, R.B. Capaz, B. Koiller
Authors - SANDiE partners: P27 (FHI Berlin)

Title: Effect of post-growth annealing on the optical properties of InAs/GaAs quantum dots: A tight-binding study

(Planned) journal: Journal of Applied Physics, vol. 102, 023711 (2007)

(Planned) date of publication: 2007

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2005-06-20

• **ID:** 00212

Authors: Sven Rodt, Robert Seguin, Andrei Schliwa, Konstantin Pötschke, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: The Excitonic Zoo in Single Quantum Dots: Excitons, Trions and More (invited talk)

(Planned) event: 14th International Conference on Luminescence (ICL' 05) Peking, China

(Planned) date of presentation: 2005-07-25 to 2005-07-29

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-06-15

• **ID:** 00211

Authors: Ch. Kristukat, A.R. Goni, K. Pötschke, A. Schliwa, D. Bimberg, and C. Thomsen

Authors - SANDiE partners: P04 (TU Berlin)

Title: Photoluminescence studies of multi-modal self-assembled quantum dots under high hydrostatic pressure

(Planned) event: Spring-Meeting of the German Physical Society in Berlin (Germany)

(Planned) date of presentation: 2005-03-04 to 2005-03-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-06-15

• **ID:** 00210

Authors: S. Dommers, St. Schneider, U. Woggon, P. Borri, W. Langbein, Th. Kettler, M. Lämmlin, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Ultrafast carrier dynamics in an InAs quantum-dot amplifier emitting at 1.3 μm

(Planned) event: Spring-Meeting of the German Physical Society in Berlin (Germany)

(Planned) date of presentation: 2005-03-04 to 2005-03-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-06-15

• **ID:** 00209

Authors: L. Reissmann, A. Strittmatter, U. Habocek, A. Hoffmann, D. Bimberg, P. Veit, and J. Christen

Authors - SANDiE partners: P04 (TU Berlin)

Title: Laterales Überwachsen strukturierter Si(111)-Substrate mit GaN und AlN-Zwischenschichten

(Planned) event: Spring-Meeting of the German Physical Society in Berlin (Germany)

(Planned) date of presentation: 2005-03-04 to 2005-03-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-06-15

• **ID:** 00208

Authors: D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Quantum dot lasers: Novel sources of picosecond high frequency

(Planned) event: Spring-Meeting of the German Physical Society in Berlin (Germany)

(Planned) date of presentation: 2005-03-04 to 2005-03-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-06-15

• **ID:** 00207

Authors: A. Lenz, H. Eisele, R. Timm, S.K. Becker, R.L. Sellin, U.W. Pohl, D. Bimberg, and M. Dähne

Authors - SANDiE partners: P04 (TU Berlin)

Title: Limits of InGaAs/GaAs quantum dot growth studied by cross-sectional scanning tunneling microscopy

(Planned) event: EW-MOVPE XI, Lausanne (Switzerland)

(Planned) date of presentation: 2005-06-05 to 2005-06-08

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-06-15

• **ID:** 00206

Authors: Martin Geller, Erik Stock, Christian Kapteyn, Roman Sellin, and Dieter Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Determination of electron and hole localization in InAs/GaAs quantum dots via direct observation of tunneling escape

(Planned) event: Spring-Meeting of the German Physical Society in Berlin (Germany)

(Planned) date of presentation: 2005-03-04 to 2005-03-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-06-15

• **ID:** 00205

Authors: A. Schliwa, T. Maltezopoulos, M. Morgenstern, R. Wiesendanger, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Shape and Order of Wavefunctions in Uncapped InAs/GaAs Quantum Dots

(Planned) event: Spring-Meeting of the German Physical Society in Berlin (Germany)

(Planned) date of presentation: 2005-03-04 to 2005-03-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-06-15

• **ID:** 00204

Authors: M. Winkelnkemper, A. Schliwa, R. Seguin, S. Rodt, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: 8-band k-p-theory for Wurtzite Crystals: Electronic Structure of InGaN Quantum Dots

(Planned) event: Spring-Meeting of the German Physical Society in Berlin (Germany)

(Planned) date of presentation: 2005-03-04 to 2005-03-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-06-15

• **ID:** 00203

Authors: Vadim Eisner, Holger Quast, Christian Meuer, and Dieter Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Low jitter laser source at arbitrary low repetition rates for electro-optical sampling

(Planned) event: Spring-Meeting of the German Physical Society in Berlin (Germany)

(Planned) date of presentation: 2005-03-04 to 2005-03-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-06-15

• **ID:** 00202

Authors: Th. Stempel, M. Dworzak, A. Hoffmann, L. Reissmann, A. Strittmatter, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Rekombinationsdynamik lokalisierter Exzitonen in einzelnen InGaN-Quantenpunkten

(Planned) event: Spring-Meeting of the German Physical Society in Berlin (Germany)

(Planned) date of presentation: 2005-03-04 to 2005-03-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-06-15

• **ID:** 00201

Authors: W. Wieczorek, R. Seguin, T. Warming, S. Rodt, A. Schliwa, K. Pötschke, A. Zhukov, V.M. Ustinov and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)

Title: Trions in quantum dots: a probe for the electronic structure and a tool for information storage (poster)

(Planned) event: 351. WE-Heraeus-Seminar "Electron-Exciton Interactions in Semiconductor Nanostructures", Bad Honnef, Germany

(Planned) date of presentation: 2005-05-29 to 2005-06-01

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-06-15

• **ID:** 00200

Authors: T. Warming, W. Wieczorek, R. Seguin, S. Rodt, A. Schliwa, K. Pötschke, U. Pohl, A. Zhukov, V.M. Ustinov and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)

Title: Trions in Quantum Dots: A Probe for the Electronic Structure and a Tool for Information Storage

(Planned) event: Workshop: "Growth, Electronic and Optical Properties of Low-Dimensional Semiconductor Quantum Structures", Kühlungsborn, Baltic Sea, Germany

(Planned) date of presentation: 2005-06-09 to 2005-06-12

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-06-15

• **ID:** 00199

Authors: Vitaly Shchukin, Dieter Bimberg, Tim Munt, and David Jesson

Authors - SANDiE partners: P04 (TU Berlin), P10 (HWU Edinburgh)

Title: Tunable Metastability of Surface Nanostructure Arrays

(Planned) event: Workshop: "Growth, Electronic and Optical Properties of Low-Dimensional Semiconductor Quantum Structures", Kühlungsborn, Baltic Sea, Germany

(Planned) date of presentation: 2005-06-09 to 2005-06-12

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-06-15

• **ID:** 00197

Authors: R. Timm, H. Eisele, A. Lenz, S. K. Becker, J. Grabowski, T.-Y. Kim, L. Müller-Kirsch, K. Pötschke, U. W. Pohl, D. Bimberg, R. M. Feenstra, and M. Dähne

Authors - SANDiE partners: P04 (TU Berlin)

Title: Formation and atomic structure of GaSb quantum dots in GaAs

(Planned) event: Workshop: "Growth, Electronic and Optical Properties of Low-Dimensional Semiconductor Quantum Structures", Kühlungsborn, Baltic Sea, Germany

(Planned) date of presentation: 2005-06-09 to 2005-06-12

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-06-15

• **ID:** 00196

Authors: A. Lenz, R. Timm, J. Grabowski, S.K. Becker, H. Eisele, M. Dähne, Y. Temko, T. Suzuki, and K. Jacobi

Authors - SANDiE partners: P04 (TU Berlin), P27 (FHI Berlin)

Title: Top-view and cross-sectional scanning tunneling microscopy of uncovered and buried InAs quantum dots (poster)

(Planned) event: Workshop: "Growth, Electronic and Optical Properties of Low-Dimensional Semiconductor Quantum Structures", Kühlungsborn, Baltic Sea, Germany

(Planned) date of presentation: 2005-06-09 to 2005-06-12

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-06-15

• **ID:** 00195

Authors: A. Lenz, H. Eisele, R. Timm, R.L. Sellin, U.W. Pohl, D. Bimberg, and M. Dähne

Authors - SANDiE partners: P04 (TU Berlin)

Title: InGaAs quantum dot structure and intermixing: reversed cone, volcano shape, and nanovoids (poster)

(Planned) event: Workshop: "Growth, Electronic and Optical Properties of Low-Dimensional Semiconductor Quantum Structures", Kühlungsborn, Baltic Sea, Germany

(Planned) date of presentation: 2005-06-09 to 2005-06-12

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-06-15

• **ID:** 00194

Authors: K. Hodeck, O. Al-Khatib, M. Assig, C. Griesche, I.Manke, and M. Dähne

Authors - SANDiE partners: P04 (TU Berlin)

Title: Optical nearfield experiments on single III-V quantum dots for laser application and quantum information (poster)

(Planned) event: Workshop: "Growth, Electronic and Optical Properties of Low-Dimensional Semiconductor Quantum Structures", Kühlungsborn, Baltic Sea, Germany

(Planned) date of presentation: 2005-06-09 to 2005-06-12

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-06-15

• **ID:** 00193

Authors: S. Dommers, S. Schneider, V. Temnov, U. Woggon, P. Borri, W. Langbein, T. Kettler, M. Lämmlin, D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin), P20 (Uni Dortmund)

Title: Linewidth enhancement factor of an InGaAs quantum-dot amplifier emitting at 1.3 μ m (Poster)

(Planned) event: Workshop: "Growth, Electronic and Optical Properties of Low-Dimensional Semiconductor Quantum Structures", Kühlungsborn, Baltic Sea, Germany

(Planned) date of presentation: 2005-06-09 to 2005-06-12

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-06-15

• **ID:** 00192

Authors: U.W. Pohl, K. Pötschke, D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Dynamics of Multimodal InAs/GaAs Quantum Dot Formation

(Planned) event: Workshop: "Growth, Electronic and Optical Properties of Low-Dimensional Semiconductor Quantum Structures", Kühlungsborn, Baltic Sea, Germany

(Planned) date of presentation: 2005-06-09 to 2005-06-12

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-06-15

• **ID:** 00191

Authors: F. Hopfer, M. Kuntz, M. Lämmlin, A.R. Kovsh, N.N. Ledentsov, I. Kaiander, V. Haisler, A. Lochmann, A. Mutig, E. Stock, T. Warming, N. Grote, V.M. Ustinov, U. W. Pohl, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg), P28 (NL Nanosemiconductor)

Title: Quantum Dot Photonics: Edge emitter, Amplifier and VCSEL

(Planned) event: Workshop: "Growth, Electronic and Optical Properties of Low-Dimensional Semiconductor Quantum Structures", Kühlungsborn, Baltic Sea, Germany

(Planned) date of presentation: 2005-06-09 to 2005-06-12

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-06-15

• **ID:** 00190

Authors: M. Geller, E. Stock, A. Marent and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Charge Carrier Storage in Self-Organized Quantum Dots (plenary talk)

(Planned) event: Workshop: "Growth, Electronic and Optical Properties of Low-Dimensional Semiconductor Quantum Structures", Kühlungsborn, Baltic Sea, Germany

(Planned) date of presentation: 2005-06-09 to 2005-06-12

Research paper in international journal? (y/n): n

Status: invited

Submitted to Network Office: 2005-06-15

• **ID:** 00189

Authors: M. Geller, E. Stock, A. Marent, A.E. Zhukov, V.M. Ustinov, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)

Title: Carrier storage and confinement in GaAs-based self-organized quantum dots

(Planned) event: The 32nd Internat. Symp.on Compound Semiconductors (ISCS-2005), September 18 - 22, 2005, Freiburg, Germany

(Planned) date of presentation: 2005-09-18

Research paper in international journal? (y/n): n

Status: invited talk, abstract submitted

Submitted to Network Office: 2005-06-15

• **ID:** 00188

Authors: Y. Temko, T. Suzuki, M.C. Xu, K. Pötschke, D. Bimberg, K. Jacobi

Authors - SANDiE partners: P04 (TU Berlin), P27 (FHI Berlin)

Title: InAs quantum dots on GaAs (-2-5-1-1)B: STM and photoluminescence studies

(Planned) journal: PHYSICAL REVIEW B 71, 045336 (2005)

(Planned) date of publication: 2005-01-27
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-15
 • **ID:** 00187
Authors: R. Santoprete, B. Koiller, R.B. Capaz, P. Kratzer, and M. Scheffler
Authors - SANDiE partners: P27 (FHI Berlin)
Title: The influence of strain on the electronic and optical properties of InAs/GaAs quantum dots - a tight-binding study
(Planned) journal: Proc. 27th Int. Conf. on the Physics of Semiconductors (ICPS), edited by J. Menendez and C.G. Van de Walle, p. 745 (2005)

(Planned) date of publication: 2005
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2005-06-13
 • **ID:** 00186
Authors: T. Hammerschmidt and P. Kratzer
Authors - SANDiE partners: P27 (FHI Berlin)
Title: Role of strain relaxation during different stages of InAs quantum dot growth
(Planned) journal: Proc. 27th Int. Conf. on the Physics of Semiconductors(ICPS), edited by J. Menendez and C.G. Van de Walle, p. 601 (2005)

(Planned) date of publication: 2005
Research paper in international journal? (y/n): n
Status: published
Submitted to Network Office: 2005-06-13
 • **ID:** 00184
Authors: Benito Alén, Juan Martínez-Pastor, Daniel Granados and Jorge M. García
Authors - SANDiE partners: P16 (U Valencia), P22 (CSIC-Madrid)
Title: Continuum and discrete excitation spectrum of single quantum rings
(Planned) journal: Physical Review B
(Planned) date of publication: 2005-11
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-13
 • **ID:** 00183
Authors: C. Pflügl
Authors - SANDiE partners: P24 (TU Wien)
Title: Quantum design of semiconductor lasers
(Planned) event: NanoForum 2005, Linz, Austria
(Planned) date of presentation: 2005-05-26 to 2005-05-27
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-06-10
 • **ID:** 00182
Authors: C. Pflügl, W. Schrenk, M. Kast, T. Roch, K. Unterrainer, G. Strasser
Authors - SANDiE partners: P24 (TU Wien)
Title: Utilizing quantum dots in unipolar intraband emitters
(Planned) event: ICPS 27, Flagstaff, USA
(Planned) date of presentation: 2004-07-26 to 2004-07-30
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-06-10
 • **ID:** 00181
Authors: T. Müller, F. Schrey, G. Fasching, J. Darmo, J. Kröll, W. Parz, K. Unterrainer, M. Andrews, T. Roch, W. Schrenk, G. Strasser
Authors - SANDiE partners: P24 (TU Wien)
Title: THz Dynamics of Semiconductor Nanostructures
(Planned) event: 12th Brazilian Workshop on Semiconductor Physics, Sao Jose dos Campos, Brazil
(Planned) date of presentation: 2005-04-04 to 2005-04-08
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-06-10
 • **ID:** 00180
Authors: F.F. Schrey, G. Fasching, T. Müller, G. Strasser, K. Unterrainer
Authors - SANDiE partners: P24 (TU Wien)
Title: Ultrafast Intersublevel Spectroscopy of a Single Quantum Dot
(Planned) event: GMe-Forum 2005, Wien, Austria
(Planned) date of presentation: 2005-03-17 to 2005-03-18
(Planned) journal: Proceedings GMe-Forum 2005 (2005)
Research paper in international journal? (y/n): n
Status: presented/ in press
Submitted to Network Office: 2005-06-10
 • **ID:** 00179
Authors: M. Schramböck, W. Schrenk, T. Roch, A.M. Andrews, M. Austerer, G. Strasser
Authors - SANDiE partners: P24 (TU Wien)
Title: Self Organized InAs Quantum Dot Arrays on Patterned GaAs Substrates
(Planned) event: GMe-Forum 2005, Wien, Austria
(Planned) date of presentation: 2005-03-17 to 2005-03-18
(Planned) journal: Proceedings GMe-Forum 2005 (2005)

Research paper in international journal? (y/n): n

Status: presented/ in press

Submitted to Network Office: 2005-06-10

• **ID:** 00178

Authors: G. Fasching, F.F. Schrey, K. Unterrainer, W. Brezna, J. Smoliner, T. Roch, A.M. Andrews, G. Strasser

Authors - SANDiE partners: P24 (TU Wien)

Title: Photocurrent Spectroscopy of Single InAs/GaAs Quantum Dots

(Planned) event: GMe-Forum 2005, Wien, Austria

(Planned) date of presentation: 2005-03-17 to 2005-03-18

(Planned) journal: Proceedings GMe-Forum 2005 (2005)

Research paper in international journal? (y/n): n

Status: presented/ in press

Submitted to Network Office: 2005-06-10

• **ID:** 00177

Authors: W. Brezna, T. Roch, G. Strasser, J. Smoliner

Authors - SANDiE partners: P24 (TU Wien)

Title: Quantitative Scanning Capacitance Spectroscopy on GaAs and InAs Quantum Dots

(Planned) event: GMe-Forum 2005, Wien, Austria

(Planned) date of presentation: 2005-03-17 to 2005-03-18

(Planned) journal: Proceedings GMe-Forum 2005 (2005)

Research paper in international journal? (y/n): n

Status: presented/ in press

Submitted to Network Office: 2005-06-10

• **ID:** 00176

Authors: A.M. Andrews, M. Austerer, C. Pflügl, M. Schramböck, T. Roch, W. Schrenk, G. Strasser

Authors - SANDiE partners: P24 (TU Wien)

Title: In_xAl_{1-x}As Quantum Dots for GaAs-based Quantum Cascade Lasers

(Planned) event: 13th Euro-MBE Workshop (2005), Grindelwald, Switzerland

(Planned) date of presentation: 2005-03-07 to 2004-03-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-06-10

• **ID:** 00175

Authors: G. Pillwein, G. Brunthaler, G. Strasser

Authors - SANDiE partners: P24 (TU Wien)

Title: Conductance Fluctuations in the Coulomb Blockade Regime in AlGaAs Quantum Dots

(Planned) event: ICPS27, Flagstaff, USA

(Planned) date of presentation: 2004-07-26 to 2004-07-30

(Planned) journal: AIP Conference Proceedings 772

Research paper in international journal? (y/n): n

Status: presented/ in press

Submitted to Network Office: 2005-06-10

• **ID:** 00174

Authors: F.F. Schrey, G. Fasching, T. Müller, G. Strasser, K. Unterrainer

Authors - SANDiE partners: P24 (TU Wien)

Title: Ultrafast intersublevel spectroscopy of a single quantum dot

(Planned) event: ICPS27, Flagstaff, USA

(Planned) date of presentation: 2004-07-26 to 2004-07-30

(Planned) journal: AIP Conference Proceedings 772

Research paper in international journal? (y/n): n

Status: presented/ in press

Submitted to Network Office: 2005-06-10

• **ID:** 00173

Authors: F. F. Schrey, D. P. Nguyen, T. Müller, L. Reihle, N. Regnault, R. Ferreira, G. Bastard, G. Strasser, K. Unterrainer

Authors - SANDiE partners: P24 (TU Wien)

Title: IR quantum dot detectors with miniband tunnel extraction

(Planned) event: 29th Int. Conf. on Infrared and Millimeter Waves (IRMMW 2004) & 12th Int. Conf. on Terahertz Electronics (THz 2004), Karlsruhe, Germany

(Planned) date of presentation: 2004-09-27 to 2004-10-01

(Planned) journal: Conf. Digest IRMMW/THz 04, ISBN 0-7803-8490-3, 245 (2004)

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-06-10

• **ID:** 00172

Authors: F.F. Schrey, T. Müller, G. Fasching, S. Anders, C. Pflügl, W. Schrenk, G. Strasser, K. Unterrainer

Authors - SANDiE partners: P24 (TU Wien)

Title: Intersublevel dynamics of semiconductor nanostructures

(Planned) journal: Physica E 25 (2004) 271-279

(Planned) date of publication: 2004-09-02

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2005-06-10

• **ID:** 00171

Authors: G. Fasching, F. F. Schrey, W. Brezna, J. Smoliner, G. Strasser, and K. Unterrainer

Authors - SANDiE partners: P24 (TU Wien)

Title: Photocurrent spectroscopy of single InAs/GaAs quantum dots

(Planned) journal: phys. stat. sol. (c) 2, No. 8, 3114-3117 (2005)

(Planned) date of publication: 2005-05-09
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-10
 • **ID:** 00170
Authors: G. Fasching, K. Unterrainer, W. Brezna, J. Smoliner, and G. Strasser
Authors - SANDiE partners: P24 (TU Wien)
Title: Tracing deeply buried InAs/GaAs quantum dots using atomic force microscopy and wet chemical etching
(Planned) journal: APPLIED PHYSICS LETTERS 86, 063111 (2005)
(Planned) date of publication: 2005-02-02
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-10
 • **ID:** 00169
Authors: P. L. Galindo, A. Yáñez, J. Pizarro, E. Guerrero, A. Sanchez, T. Ben and S. I. Molina
Authors - SANDiE partners: P17 (Uni Cádiz)
Title: The Peak Pairs strain mapping algorithm and its application to HRTEM images
(Planned) event: Workshop on Advanced Methods for Interpretation of TEM, X-Ray and SIMS Measurements in Nano and Atomic Scale organized by the Institute of Physics of the Polish Academy of Sciences (Warsaw, 1-3 June 2005)
(Planned) date of presentation: 2005-06-01 to 2005-06-03
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2005-06-10
 • **ID:** 00168
Authors: T. Schwarzl, G. Springholz, M. Böberl, E. Kaufmann, J. Roither, W. Heiss, J. Fürst and H. Pascher
Authors - SANDiE partners: P18 (Uni Linz)
Title: Emission properties of 6.7 mm continuous-wave PbSe-based vertical-emitting microcavity lasers operating up to 100 K
(Planned) journal: APPLIED PHYSICS LETTERS 86, 031102 (2005)
(Planned) date of publication: 2005-01-10
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-10
 • **ID:** 00167
Authors: Gunther Springholz
Authors - SANDiE partners: P18 (Uni Linz)
Title: Three-dimensional stacking of self-assembled quantum dots in multilayer structures
(Planned) journal: Comptes Rendus Physique 6 (2005) 89–103
(Planned) date of publication: 2005-01-13
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-10
 • **ID:** 00166
Authors: A.M. Sanchez, R. Beanland, A.J. Papworth, M.H. Gass, and P.J. Goodhew
Authors - SANDiE partners: P17 (Uni Cádiz), P19 (Bookham)
Title: The plasmon peak in EELS: A new technique to determine the strain in semiconductor heterostructures?
(Planned) event: Workshop on Advanced Methods for Interpretation of TEM, X-Ray and SIMS Measurements in Nano and Atomic Scale, Warsaw, Poland
(Planned) date of presentation: 2005-06-01 to 2005-06-03
Research paper in international journal? (y/n): n
Status: invited
Submitted to Network Office: 2005-06-10
 • **ID:** 00165
Authors: M. Tadic and F. M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Intersublevel magnetoabsorption in the valence band of p-type InAs/GaAs and Ge/Si self-assembled quantum dots
(Planned) journal: PHYSICAL REVIEW B 71, 125342 (2005)
(Planned) date of publication: 2005-03-31
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-07
 • **ID:** 00164
Authors: B. Szafran, T. Chwiej, F. M. Peeters, S. Bednarek, and J. Adamowski
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Relative stability of negative and positive trions in model symmetric quantum wires
(Planned) journal: PHYSICAL REVIEW B 71, 235305 (2005)
(Planned) date of publication: 2005-06-06
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-07
 • **ID:** 00163
Authors: Y. Sidor, B. Partoens, and F. M. Peeters
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Exciton in a quantum wire in the presence of parallel and perpendicular magnetic fields
(Planned) journal: PHYSICAL REVIEW B 71, 165323 (2005)
(Planned) date of publication: 2005-04-26
Research paper in international journal? (y/n): y

Status: published
Submitted to Network Office: 2005-06-07
ID: 00162
Authors: N. Sköld, L. Karlsson, M. Larsson, M.-E. Pistol, W. Seifert, J. Trägårdh, L. Samuelson
Authors - SANDiE partners: P6 (Uni Lund)
Title: Growth and optical properties of strained GaAs-Ga_xIn_{1-x}P Core-shell nanowires
(Planned) journal: Nanoletters
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: to be submitted
Submitted to Network Office: 2005-06-07
ID: 00161
Authors: J. Persson, U. Håkanson, M. K.-J. Johansson, L. Samuelson, M.-E. Pistol
Authors - SANDiE partners: P6 (Uni Lund)
Title: Strain effects on individual quantum dots: Dependence of cap layer thickness
(Planned) journal: Physical Review B
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2005-06-07
ID: 00160
Authors: Xiang Li, Philippe Boucaud, Xavier Checoury, Moustapha El Kurdi, Olivier Kermarrec, Yves Campidelli, Daniel Bensahel
Authors - SANDiE partners: P13 (Uni Paris)
Title: Ge/Si self-assembled islands : an internal source to study photonic crystals on silicon-on-insulator
(Planned) event: 12th European conference on integrated optics, ECIO 05, Grenoble 6-8 April 2005
(Planned) date of presentation: 2005-04-06 to 2005-04-08
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-06-06
ID: 00159
Authors: J. F. Dalemcourt, B. Vandelle, P. Boucaud, J.-M. Hartmann, J.-M. Fedeli, and T. Billon
Authors - SANDiE partners: P13 (Uni Paris)
Title: Ge quantum dots stacks wavelength tuning for basic optoelectronic devices in the 1.3 - 1.6 μm range
(Planned) event: 207th Electrochemical Society Meeting, Quebec Canada 15 - 20 May 2005
(Planned) date of presentation: 2005-05-15 to 2005-05-20
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-06-06
ID: 00158
Authors: T.K. Nguyen-Duc, V. Le Thanh, J. Derrien, P. Boucaud, D. Bouchier, Oliver G. Schmidt
Authors - SANDiE partners: P13 (Uni Paris), P23 (MPI Stuttgart)
Title: Influence of point defects on the optical properties of self-assembled Ge/Si hut clusters
(Planned) event: Fourth International Conference on Silicon Epitaxy and Heterostructures (ICSI-4) Awaji Island, Hyogo, Japan, May 23-26, 2005
(Planned) date of presentation: 2005-05-23 to 2005-05-26
(Planned) journal: Thin Solid Films 508, 207-212 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-06
ID: 00157
Authors: T. K. Nguyen-Duc, V. Le Thanh, L. H. Nguyen, P. Boucaud, D. Bouchier, F. A. d'Avitaya, J. Derrien
Authors - SANDiE partners: P13 (Uni Paris)
Title: Role of point defects on the optical properties of self-assembled Ge/Si hut clusters
(Planned) event: The 14th International Conference on Crystal Growth, Grenoble 9 - 13 August 2004
(Planned) date of presentation: 2004-08-09 to 2004-08-13
(Planned) journal: Journal of Crystal Growth 275, e1287-e1294 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-06
ID: 00156
Authors: O. Kermarrec, Y. Campidelli, D. Bensahel, S. David, M. El kurdi, P. Boucaud, Y. Chriqui, S. Bouchoule, G. Saint-Girons and I. Sagnes
Authors - SANDiE partners: P13 (Uni Paris), P11 (LPN/CNRS)
Title: Photonics, Electronics and Silicon-Germanium : a possible convergence ?
(Planned) event: 206th meeting of the Electrochemical society, Honolulu Hawaii 3 - 8 October 2004
(Planned) date of presentation: 2004-10-03 to 2004-10-08
(Planned) journal: PV 2004-07 SiGe: Materials, Processing, and Devices - D. Hareme, J. Boquet, J. Cressler, D. Houghton, H. Iwai, T.-J. King, G. Masini, J. Murota, H. Rim, and B. Tillack editeurs
(Planned) date of publication: 2005
Research paper in international journal? (y/n): n
Status: invited talk, published
Submitted to Network Office: 2005-06-06
ID: 00155
Authors: X. Li, P. Boucaud, X. Checoury, O. Kermarrec, Y. Campidelli, D. Bensahel

Authors - SANDiE partners: P13 (Uni Paris)
Title: Probing photonic crystals on silicon-on-insulator with Ge/Si self-assembled islands as an internal source
(Planned) journal: Journal of Applied Physics 99, 23103 (2006)
(Planned) date of publication: 2006-01-14
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-06
 • **ID:** 00154
Authors: C. Kammerer, S. Sauvage, P. Boucaud, G. Patriarche, A. Lemaître
Authors - SANDiE partners: P13 (Uni Paris), P11 (LPN/CNRS)
Title: Mid-infrared intersublevel absorption of vertically electronically coupled InAs quantum dots
(Planned) journal: Applied Physics letters 87, 173113 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-06
 • **ID:** 00153
Authors: L. Ouattara, A. Mikkelsen, M. Borgström, L. Samuelson, W. Seifert, E. Lundgren
Authors - SANDiE partners: P06 (Uni Lund)
Title: Influence of the spacer layer thickness in stacked InAs/InP quantum dots, studied by Cross-sectional Scanning Tunneling Microscopy
(Planned) event: Poster at ICTF 13/ACSIN 8 - June 19-23, 2005 - Stockholm, Sweden
(Planned) date of presentation: 2005-06-19 to 2005-06-23
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2005-06-06
 • **ID:** 00152
Authors: J. Eriksson, A. Mikkelsen, E. Lundgren, L. Jensen, L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Investigating InAs nanowires on InAs(111) using Scanning Tunneling Microscopy
(Planned) event: Poster at ICTF 13/ACSIN 8 - June 19-23, 2005 - Stockholm, Sweden
(Planned) date of presentation: 2005-06-19 to 2005-06-23
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2005-06-06
 • **ID:** 00151
Authors: A. Mikkelsen, N. Sköld, L. Ouattara, J. N. Andersen, L. Samuelson, W. Seifert, E. Lundgren
Authors - SANDiE partners: P06 (Uni Lund)
Title: Direct atomically resolved imaging inside a nanowire
(Planned) event: Talk at ICTF 13/ACSIN 8 - June 19-23, 2005 - Stockholm, Sweden
(Planned) date of presentation: 2005-06-19 to 2005-06-23
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2005-06-06
 • **ID:** 00150
Authors: J. Eriksson, N. Sköld, L. Ouattara, W. Hofer, Th. Knappen, W. Seifert, L. Samuelson, A. Mikkelsen, E. Lundgren
Authors - SANDiE partners: P06 (Uni Lund), P07 (TU Eindhoven)
Title: Probing growth defects inside nanowires
(Planned) event: Poster at ECOSS23, Sept 2005, Berlin, Germany
(Planned) date of presentation: 2005-09
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2005-06-06
 • **ID:** 00149
Authors: E. Lundgren and A. Mikkelsen
Authors - SANDiE partners: P06 (Uni Lund)
Title: Cross-sectional STM on superlattices, quantum dots and nanowires
(Planned) event: Invited talk at X-th Symposium in Surface Physics, SSP 10, Prague, Czech Republic, July 10-15, 2005
(Planned) date of presentation: 2005-07-10 to 2005-07-15
Research paper in international journal? (y/n): y
Status: accepted
Submitted to Network Office: 2005-06-06
 • **ID:** 00148
Authors: A. Mikkelsen, J. Eriksson, L. Ouattara, E. Lundgren, T. Knaapen, N. Skold, W. Seifert, L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund), P07 (TU Eindhoven)
Title: Direct Atomically Resolved Imaging of Nanowire Heterostructures and Nanowire Substrate Interaction
(Planned) event: 52nd American Vacuum Society, International Symposium 30/10-4/11 2005 Boston, USA
(Planned) date of presentation: 2005-10-30 to 2005-11-04
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2005-06-06
 • **ID:** 00147
Authors: A. Mikkelsen, J. Eriksson, E. Lundgren, J. N. Andersen, J. Weissenreider, W. Seifert
Authors - SANDiE partners: P06 (Uni Lund)
Title: Lysine influence on InP(001) surface ordering and nanowire growth
(Planned) journal: Nanotechnology
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y

Status: submitted
Submitted to Network Office: 2005-06-06
• **ID:** 00146
Authors: M.-E. Pistol
Authors - SANDiE partners: P06 (Uni Lund)
Title: InP quantum dots in GaInP
(Planned) journal: Journal of Physics: Condensed Matter 16 (2004) S3737-S3748
(Planned) date of publication: 2004-08-20
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-06
• **ID:** 00145
Authors: H. Pettersson, L. Landin, R. Liu, W. Seifert, M.-E. Pistol, L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Photoexcitation of excitons in self-assembled quantum dots
(Planned) journal: Applied Physics Letters 85, 5046 (2004)
(Planned) date of publication: 2004-11-21
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-06
• **ID:** 00144
Authors: J. Persson, D. Hessman, M.-E. Pistol, W. Seifert, L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Charging control of InP/GaInP quantum dots by heterostructure design
(Planned) journal: Applied Physics Letters 85, 5043 (2004)
(Planned) date of publication: 2004-11-22
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-06
• **ID:** 00143
Authors: N. Panev, M.-E. Pistol, J. Persson, W. Seifert, L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Spectroscopic studies of random telegraph noise in small InP quantum dots in GaInP₂
(Planned) journal: Physical Review B 70, 073309 (2004)
(Planned) date of publication: 2004-08-20
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-06
• **ID:** 00142
Authors: Z. Zanolli, L. E. Jensen, M. T. Björk, M.-E. Pistol, L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Fabrication, optical characterization and modeling of strained core-shell nanowires
(Planned) journal: Thin Solid Films
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2005-06-06
• **ID:** 00141
Authors: U Krishnamachari et al.
Authors - SANDiE partners: P06 (Uni Lund)
Title: Defect-free InP nanowires grown in [001] direction on InP (001)
(Planned) journal: Applied Physics Letters 85, 2077 (2004)
(Planned) date of publication: 2004-09-13
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-06
• **ID:** 00140
Authors: K. A. Dick, K. Deppert, T. Mårtensson, W. Seifert, L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Growth of GaP nanotree structures by sequential seeding of 1D nanowires
(Planned) journal: Journal of Crystal Growth 272 (2004) 131
(Planned) date of publication: 2004-10-13
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-06
• **ID:** 00139
Authors: A. I. Persson, B. J. Ohlsson, S. Jeppesen, L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Growth mechanisms for GaAs nanowires grown in CBE
(Planned) journal: Journal of Crystal Growth 272 (2004) 167
(Planned) date of publication: 2004-10-12
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-06
• **ID:** 00138
Authors: Werner Seifert, Magnus Borgström, Knut Deppert, Kimberly A. Dick, Jonas Johansson, Magnus W. Larsson, Thomas Mårtensson, Niklas Sköld, C. Patrik T. Svensson, Brent A. Wacaser, L. Reine Wallenberg, Lars Samuelson

Authors - SANDiE partners: P06 (Uni Lund)
Title: Growth of one-dimensional nanostructures in MOVPE
(Planned) journal: Journal of Crystal Growth 272 (2004) 211-220
(Planned) date of publication: 2004-10-19
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-06
 • **ID:** 00137
Authors: Thomas Mårtensson, C. Patrik T. Svensson, Brent A. Wacaser, Magnus W. Larsson, Werner Seifert, Knut Deppert, Anders Gustafsson, L. Reine Wallenberg, and Lars Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Epitaxial III-V nanowires on Silicon
(Planned) journal: Nano Letters 4, 1987 (2004)
(Planned) date of publication: 2004-08-06
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-06
 • **ID:** 00136
Authors: C. Thelander, H. A. Nilsson, L. E. Jensen, L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund)
Title: Nanowire Single-Electron Memory
(Planned) journal: Nano Letters 5, 635-638 (2005)
(Planned) date of publication: 2005-01-03
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-06-06
 • **ID:** 00135
Authors: K. Veselinov, F. Grillot, P. Miska, E. Homeyer, P. Caroff, C. Platz, J. Even, X. Marie, O. Dehaese, S. Loualiche and A. Ramdane
Authors - SANDiE partners: P12 (INSA-LENS), P11 (LPN/CNRS)
Title: Carrier dynamics and saturation effect in (113)B InAs/InP quantum dot lasers
(Planned) journal: Optical and Quantum Electronics
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2005-06-03
 • **ID:** 00134
Authors: S. Laurent, L. Le Gratiet, S. Varoutsis, E. Viasnoff-Schwoob, A. Lemaître, I. Sagnes, I. Robert-Philip, and I. Abram
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Controlling coherence in single photon microcavity emitters
(Planned) event: PECS-VI: International Symposium on Photonic and Electromagnetic Crystal Structures
(Planned) date of presentation: 2005-07-19 to 2005-07-24
Research paper in international journal? (y/n): n
Status: poster accepted
Submitted to Network Office: 2005-06-02
 • **ID:** 00133
Authors: L. Le Gratiet, S. Laurent, S. Varoutsis, F. Raineri, A. Lemaître, I. Sagnes, I. Robert-Philip, and I. Abram
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Photonic crystal microcavities for spontaneous emission control
(Planned) event: PECS-VI: International Symposium on Photonic and Electromagnetic Crystal Structures
(Planned) date of presentation: 2005-07-19 to 2005-07-24
Research paper in international journal? (y/n): n
Status: poster accepted
Submitted to Network Office: 2005-06-02
 • **ID:** 00132
Authors: S. Varoutsis, S. Laurent, P. Kramer, M. Gallard, A. Lemaître, I. Sagnes, I. Robert-Philip and I. Abram
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Controlling coherence of single quantum dots embedded in a microcavity
(Planned) event: MSS-12 Meeting Albuquerque (USA)
(Planned) date of presentation: 2005-07-10 to 2005-07-15
Research paper in international journal? (y/n): n
Status: accepted
Submitted to Network Office: 2005-06-02
 • **ID:** 00131
Authors: S. Varoutsis, S. Laurent, E. Viasnoff-Schwoob, A. Lemaître, I. Sagnes, Isabelle Robert-Philip and I. Abram
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Indistinguishable single photons from a single quantum dot
(Planned) event: European Quantum Electronics Conference (EQEC), Munich
(Planned) date of presentation: 2005-06-12 to 2005-06-17
Research paper in international journal? (y/n): n
Status: accepted
Submitted to Network Office: 2005-06-02
 • **ID:** 00130
Authors: S. Laurent, S. Varoutsis, E. Viasnoff-Schwoob, A. Lemaître, I. Sagnes, Isabelle Robert-Philip and I. Abram
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: Controlling coherence in single photon microcavity emitters
(Planned) event: European Quantum Electronics Conference (EQEC), Munich
(Planned) date of presentation: 2005-06-12 to 2005-06-17

Research paper in international journal? (y/n): n

Status: accepted

Submitted to Network Office: 2005-06-02

• **ID:** 00129

Authors: S. Varoutsis, S. Laurent, P. Kramper, A. Lemaître, I. Sagnes, I. Robert-Philip, and I. Abram

Authors - SANDiE partners: P11 (LPN/CNRS)

Title: Restoration of photon indistinguishability in the emission of a semiconductor quantum dot

(Planned) journal: Phys. Rev. B Rapid Comm.

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: accepted

Submitted to Network Office: 2005-06-02

• **ID:** 00128

Authors: K. A. Dick, K. Deppert, L. S. Karlsson, L. R. Wallenberg, L. Samuelson, W. Seifert

Authors - SANDiE partners: P06 (Uni Lund)

Title: A new understanding of Au-assisted growth of III-V nanowires

(Planned) journal: Advanced functional materials 15, ... (2005)

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: accepted

Submitted to Network Office: 2005-06-01

• **ID:** 00127

Authors: B. A. Wacaser, K. Deppert, L. S. Karlsson, L. Samuelson, W. Seifert

Authors - SANDiE partners: P06 (Uni Lund)

Title: Importance of the particle/wire interface for defect-free nanowire growth

(Planned) event: presentation at 16th ACCGE Montana/USA July 2005

(Planned) date of presentation: 2005-07

Research paper in international journal? (y/n): n

Status: accepted

Submitted to Network Office: 2005-06-01

• **ID:** 00126

Authors: W. Seifert

Authors - SANDiE partners: P06 (Uni Lund)

Title: Growth-related aspects of nanowire fabrication

(Planned) event: invited talk at 16th ACCGE Montana/USA July 2005

(Planned) date of presentation: 2005-07

Research paper in international journal? (y/n): n

Status: accepted

Submitted to Network Office: 2005-06-01

• **ID:** 00125

Authors: K. A. Dick, K. Deppert, T. Mårtensson, B. Mandl, L. Samuelson, W. Seifert

Authors - SANDiE partners: P06 (Uni Lund), P18 (Uni Linz)

Title: Failure of the vapor-liquid-solid mechanism in Au-assisted growth of InAs nanowires

(Planned) event: poster at EWMOVPE XI Lausanne June 2005

(Planned) date of presentation: 2005-06

Research paper in international journal? (y/n): n

Status: accepted

Submitted to Network Office: 2005-06-01

• **ID:** 00124

Authors: J. Johansson, C. P. T. Svensson, T. Mårtensson, L. Samuelson, W. Seifert

Authors - SANDiE partners: P06 (Uni Lund)

Title: A mass-transport model for semiconductor nanowire growth

(Planned) event: presentation at EWMOVPE XI Lausanne June 2005

(Planned) date of presentation: 2005-06

Research paper in international journal? (y/n): n

Status: accepted

Submitted to Network Office: 2005-06-01

• **ID:** 00123

Authors: J. Johansson, C. P. T. Svensson, T. Mårtensson, L. Samuelson, W. Seifert

Authors - SANDiE partners: P06 (Uni Lund)

Title: A mass-transport model for semiconductor nanowire growth

(Planned) journal: Journal Phys. Chem. B

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: submitted

Submitted to Network Office: 2005-06-01

• **ID:** 00122

Authors: J. Novák, V. Holý, J. Stangl, T. Fromherz, Zhenyang Zhong, Gang Chen, G. Bauer, and B. Struth

Authors - SANDiE partners: P18 (Uni Linz), A2 (Uni Prag)

Title: Ge/Si islands in a 3D island crystal studied by x-ray diffraction

(Planned) journal: Journal of Applied Physics 98, 073517-1/9 (2005)

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2005-05-30

• **ID:** 00121

Authors: V.G.Dubrovskii, I.P.Soshnikov, N.V.Sibirev, G.E.Cirlin, and V.M.Ustinov

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg)
Title: GROWTH OF GaAs NANOSCALE WHISKERS BY MAGNETRON SPUTTERING DEPOSITION
(Planned) journal: Journal of Crystal Growth
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-05-25
 • **ID:** 00120
Authors: M. Herrera, D. González, J. G. Lozano, M. Hopkinson, M. Gutierrez, P. Navaretti, H. Y. Liu and R. García
Authors - SANDiE partners: P17 (Uni Cádiz), P08 (Uni Sheffield)
Title: Unfaulting of dislocation loops in the GaInNAs alloy: an estimation of the stacking fault energy
(Planned) journal: Journal of Applied Physics
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: submitted
Submitted to Network Office: 2005-05-20
 • **ID:** 00119
Authors: S. I. Molina
Authors - SANDiE partners: P17 (Uni Cádiz)
Title: Self-assembled semiconductor nanostructures studied by Transmission Electron Microscopy
(Planned) event: Kolloquium, Institut für Kristallzüchtung, Berlin
(Planned) date of presentation: 2005-04-28
Research paper in international journal? (y/n): n
Status: invited talk
Submitted to Network Office: 2005-05-20
 • **ID:** 00118
Authors: J. Pizarro, E. Guerrero, P. Galindo, A. Yáñez, T. Ben, S. I. Molina
Authors - SANDiE partners: P17 (Uni Cádiz)
Title: Quantification of the Influence of TEM Operation Parameters on the Error of HREM Image Matching
(Planned) event: proceedings (Congress XIV Microscopy of Semiconducting Materials, Oxford, 2005-04-11 to 2005-04-14)
(Planned) date of presentation: 2005
Research paper in international journal? (y/n): n
Status:
Submitted to Network Office: 2005-05-20
 • **ID:** 00117
Authors: M. Grundmann, Th. Nobis, A. Rahm, M. Lorenz
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Oberflächenmodifikation durch dreidimensionale ZnO-Nanostrukturen
(Planned) event: 13.Tagung Festkörperanalytik, Chemnitz, Germany
(Planned) date of presentation: 2005-06-26 to 2005-06-29
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-05-20
 • **ID:** 00116
Authors: P. L. Galindo, A. Yáñez, J. Pizarro, E. Guerrero, T. Ben and S. I. Molina
Authors - SANDiE partners: P17 (Uni Cádiz)
Title: Strain mapping from HRTEM images
(Planned) journal: proceedings (Congress XIV Microscopy of Semiconducting Materials, Oxford, 2005-04-11 to 2005-04-14)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): n
Status:
Submitted to Network Office: 2005-05-18
 • **ID:** 00115
Authors: L.Ya. Karachinsky, T. Kettler, N.Yu.Gordeev, I.I.Novikov, M.V.Maximov, Yu.M.Shernyakov, N.V.Kryzhanovskaya, A.E.Zhukov, E.S.Semenova, A.P.Vasil'ev, V.M.Ustinov, N.N.Ledentsov, A.R.Kovsh, V.A.Schukin, S.S.Mikhrin, A. Lochmann, O.Schulz, L.Reissmann, and D.Bimberg
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin), P28 (NL Nanosemiconductor)
Title: CW 1.5 μm -range lasing of single mode metamorphic quantum dot lasers
(Planned) journal: Semiconductors (Fizika i tekhnika poluprovodnikov)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status:
Submitted to Network Office: 2005-05-18
 • **ID:** 00114
Authors: E. Gombia, R. Mosca, S. Amighetti, S. Franchi, P. Frigeri, C. Ghezzi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Electrical characterization of InAs/GaAs quantum dot structures
(Planned) journal: Mat Sci Engineering C 26, 867 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-05-18
 • **ID:** 00113
Authors: L. Seravalli, P. Frigeri, M. Minelli, P. Allegri, V. Avanzini, S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Metamorphic self-assembled quantum-dot nanostructures
(Planned) journal: Mat Sci Engineering C 26, 731 (2006)

(Planned) date of publication: 2006

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2005-05-18

• **ID:** 00112

Authors: G. Trevisi, P. Frigeri, M. Minelli, C. Bocchi, P. Allegri, V. Avanzini and S. Franchi

Authors - SANDiE partners: P14 (CNR-IMEM)

Title: InGaAs/AlGaAs quantum dot structures for 980 nm room temperature emission

(Planned) event: Growth, electronic and optical properties of Semiconductor Nanostructures, Kühlungsborn, Germany

(Planned) date of presentation: 2005-06-09 to 2005-06-12

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-05-18

• **ID:** 00111

Authors: L.Ya.Karachinsky, T.Kettler, N.Yu.Gordeev, I.I.Novikov, M.V.Maximov, Yu.M.Shernyakov, N.V.Kryzhanovskaya, A.E.Zhukov, E.S.Semenova, A.P.Vasil'ev, V.M.Ustinov, N.N.Ledentsov, A.R.Kovsh, V.A.Shchukin, S.S.Mikhrin, A.Lochmann, O.Schulz, L.Reissmann, and D.Bimberg

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin), P28 (NL Nanosemiconductor)

Title: High-Power Single Mode CW Operation of the 1.5 μ m-Range Quantum Dot GaAs-based Laser

(Planned) event: One Day Quantum Dot meeting, Nottingham, UK

(Planned) date of presentation: 2005-04-05

(Planned) journal: Electr. Lett. 41, No.8

(Planned) date of publication: 2005-04-14

Research paper in international journal? (y/n): y

Status:

Submitted to Network Office: 2005-05-18

• **ID:** 00110

Authors: T. Ben, A. M. Sánchez, S. I. Molina, D. Granados, J. M. García, S. Kret

Authors - SANDiE partners: P17 (Uni Cádiz), P22 (CSIC, Madrid)

Title: Chemical composition and strain distribution of InAs/GaAs(001) stacked quantum rings

(Planned) journal: proceedings (Congress XIV Microscopy of Semiconducting Materials, Oxford, 2005-04-11 to 2005-04-14)

(Planned) date of publication: 2005

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-05-13

• **ID:** 00109

Authors: T. Ben, S. I. Molina, R. García, D. Fuster, M. U. González, L. González, Y. González and S. Kret

Authors - SANDiE partners: P17 (Uni Cádiz), P22 (CSIC, Madrid)

Title: Quantitative measurements of the inhomogeneous strain field of stacked self-assembled InAs/InP(001) quantum wires by the Peak Finding Method

(Planned) journal: proceedings (Congress XIV Microscopy of Semiconducting Materials, Oxford, 2005-04-11 to 2005-04-14)

(Planned) date of publication: 2005

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-05-13

• **ID:** 00108

Authors: A.Martinez, A.Lemaître, K.Merghem, L.Ferlazzo, C.Dupuis, A.Ramdane, J.-G.Provost, B.Dagens, O. Le Gouezigou and O.Gauthier-Lafaye

Authors - SANDiE partners: P11 (LPN/CNRS)

Title: Static and Dynamic Measurements of the alpha-factor of 5-Quantum Dot Layer Single Mode Lasers Emitting at 1.3 μ m on GaAs

(Planned) journal: Applied Physics Letters

(Planned) date of publication: 2005-05-30

Research paper in international journal? (y/n): y

Status:

Submitted to Network Office: 2005-05-10

• **ID:** 00107

Authors: D. Fuster, L. González, Y. González, M. U. González, and J. Martínez-Pastor

Authors - SANDiE partners: P22 (CSIC Madrid), P16 (U Valencia)

Title: Size and emission wavelength control of InAs/InP quantum wires

(Planned) journal: Journal of Applied Physics

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status:

Submitted to Network Office: 2005-05-09

• **ID:** 00106

Authors: F.Pulizzi, D. Walker, A. Patane', L. Eaves, M. Henini, D. Granados, J. M. Garcia, V.V. Rudenkov, P.C.M. Christianen, J. C. Maan, P Offermans, P.M. Koenraad, G. Hill

Authors - SANDiE partners: P09 (U Nottingham), P22 (CSIC Madrid), P07 (TU Eindhoven), P08 (U Sheffield)

Title: Excited states of ring-shape (InGa)As quantum dots in a GaAs/(AlGa)As quantum well

(Planned) journal: Physical Review B

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2005-05-03

• **ID:** 00105

Authors: J. Ibanez, R. Cusco, S. Hernandez, L. Artus, M. Henini, A. Patane, L. Eaves, M.Roy and P. A. Maksym

Authors - SANDiE partners: P09 (U Nottingham)

Title: Probing the intermixing in In(Ga)As/GaAs self-assembled quantum dots by Raman scattering
(Planned) journal: Journal of Applied Physics
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-04-24
• ID: 00104
Authors: Th. Nobis, A. Rahm, M. Lorenz and M. Grundmann
Authors - SANDiE partners: P01 (U Leipzig)
Title: Numerical Modelling of Zinc Oxide Nanocavities to Determine their Birefringence
(Planned) journal: Proc. SPIE 6122, 93 (2006)
(Planned) date of publication: 2006
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-04-22
• ID: 00103
Authors: D. Fuster, J. Martínez-Pastor, L. González, and Y. González.
Authors - SANDiE partners: P16 (U Valencia), P22 (CSIC, Madrid)
Title: Exciton recombination dynamics in InAs/InP self-assembled quantum wires.
(Planned) journal: Physical Review B
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status:
Submitted to Network Office: 2005-04-21
• ID: 00102
Authors: M. Gutiérrez, M. Hopkinson H. Y. Liu, M. Herrera, D. González and R. García
Authors - SANDiE partners: P17 (U Cadiz), P08 (U Sheffield)
Title: Influence of Structure and Defects on the Performance of Dot-in-Well Laser Structures
(Planned) journal: SPIE
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status:
Submitted to Network Office: 2005-04-20
• ID: 00101
Authors: M. Gutiérrez, M. Hopkinson, A. I. Tartakovskii, M.S. Skolnick, M. Herrera, D. González and R. García
Authors - SANDiE partners: P17 (U Cadiz), P08 (U Sheffield)
Title: Effect of Annealing on Anticorrelated InGaAs/GaAs Quantum Dots
(Planned) event: Microscopy of Semiconducting Materials XIV
(Planned) date of presentation: 2005
(Planned) journal: Inst. Phys. Conf. Ser.
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status:
Submitted to Network Office: 2005-04-20
• ID: 00100
Authors: M. Gutiérrez, M. Hopkinson, A. I. Tartakovskii, M.S. Skolnick, M. Herrera, D. González and R. García
Authors - SANDiE partners: P17 (U Cadiz), P08 (U Sheffield)
Title: Experimental Evidence of Anisotropy Effects in InAs/GaAs Quantum Dot Structures growth by Molecular Beam Epitaxy
(Planned) event: European Molecular Beam Epitaxy Workshop
(Planned) date of presentation: 2005
Research paper in international journal? (y/n): n
Status:
Submitted to Network Office: 2005-04-20
• ID: 00099
Authors: M. Gutiérrez, M. Hopkinson, H. Y. Liu, M. Herrera, D. González and R. García
Authors - SANDiE partners: P17 (U Cadiz), P08 (U Sheffield)
Title: Influence of Structure and Defects on the Performance of Dot-in-Well Laser Structures
(Planned) event: Microtechnologies for the New Millennium 2005. Photonics materials, devices and applications
(Planned) date of presentation: 2005
Research paper in international journal? (y/n): n
Status:
Submitted to Network Office: 2005-04-20
• ID: 00098
Authors: M. Gutiérrez, M. Hopkinson, M. Herrera, D. González and R. García
Authors - SANDiE partners: P17 (U Cadiz), P08 (U Sheffield)
Title: Vertical Correlation-Anticorrelation transition in InAs/GaAs Quantum Dot Structures Grown by Molecular Beam Epitaxy
(Planned) event: European Molecular Beam Epitaxy Workshop
(Planned) date of presentation: 2005
(Planned) journal: Inst. Phys. Conf. Ser.
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status:
Submitted to Network Office: 2005-04-20
• ID: 00097
Authors: M. Gutiérrez, M. Hopkinson, M. Herrera, D. González and R. García
Authors - SANDiE partners: P17 (U Cadiz), P08 (U Sheffield)
Title: Vertical Correlation-Anticorrelation transition in InAs/GaAs Quantum Dot Structures Grown by Molecular Beam Epitaxy

(Planned) event: European Molecular Beam Epitaxy Workshop

(Planned) date of presentation: 2005

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-04-20

• **ID:** 00096

Authors: M. Gutiérrez, M. Hopkinson, A. I. Tartakovskii, M.S. Skolnick, M. Herrera, D. González and R. García

Authors - SANDiE partners: P17 (U Cadiz), P08 (U Sheffield)

Title: Effect of Annealing on Anticorrelated InGaAs/GaAs Quantum Dots

(Planned) event: Microscopy of semiconducting materials conference XIV

(Planned) date of presentation: 2005

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-04-20

• **ID:** 00095-2

Authors: M. Herrera, D. González, J.G. Lozano, M. Hopkinson, M. Gutierrez, P. Navaretti, H.Y. Liu and R. García

Authors - SANDiE partners: P17 (U Cadiz), P08 (U Sheffield)

Title: Defect generation in high In and N content GaInNAs quantum wells:unfaulting of Frank dislocation loops

(Planned) event: Microscopy of semiconducting materials conference XIV

(Planned) date of presentation: 2005-04-11 to 2005-04-14

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-05-20

• **ID:** 00095-1

Authors: M. Herrera, D. González, J.G. Lozano, M. Hopkinson, M. Gutierrez, P. Navaretti, H.Y. Liu and R. García

Authors - SANDiE partners: P17 (U Cadiz), P08 (U Sheffield)

Title: Defect generation in high In and N content GaInNAs quantum wells:unfaulting of Frank dislocation loops

(Planned) journal: proceedings (Microscopy of semiconducting materials conference XIV)

(Planned) date of publication: 2005

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-04-19

• **ID:** 00094

Authors: M. Herrera, D. González, J.G. Lozano, M. Hopkinson, M. Gutierrez, P. Navaretti, H.Y. Liu and R. García

Authors - SANDiE partners: P17 (U Cadiz), P08 (U Sheffield)

Title: Activation energy for surface diffusion in GaInNAs quantum wells

(Planned) journal: proceedings (Microscopy of semiconducting materials conference XIV)

(Planned) date of publication: 2005

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-04-19

• **ID:** 00093

Authors: J.K. Morrod, T.C.M. Graham, R.J. Warburton and K.A. Prior

Authors - SANDiE partners: P10 (HWU Edinburgh)

Title: The Effects of In Situ Annealing on CdSe Quantum Dots Grown by ALE.

(Planned) event: International II-VI semiconductor conference Warsaw

(Planned) date of presentation: 2005-09

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-04-15

• **ID:** 00092

Authors: A. Strittmatter, L. Reißmann, D. Bimberg, T. Riemann, J. Christen

Authors - SANDiE partners: P04 (TU Berlin)

Title: Microscopic correlation of different domains in InGaN layers on Si substrates to integral luminescence properties by spatially resolved cathodoluminescence

(Planned) journal: pss

(Planned) date of publication: 2005

(Planned) event: Int. Conf. on Nitride Semiconductors 6, Bremen

(Planned) date of presentation: 2005-08-28 to 2005-09-02

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-04-15

• **ID:** 00091

Authors: A. Strittmatter, L. Reißmann, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Impact of thin AlN layers on the lateral overgrowth of GaN layers on Si(111) substrates by MOCVD

(Planned) journal: pss

(Planned) date of publication: 2005

(Planned) event: Int. Conf. on Nitride Semiconductors 6, Bremen

(Planned) date of presentation: 2005-08-28 to 2005-09-02

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-04-15

• **ID:** 00090

Authors: T. Schulz, A. Strittmatter, L. Reißmann, A. Hoffmann, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Gain measurements of InGaN/GaN structures grown on Si(111) substrates by MOCVD

(Planned) journal: pss
(Planned) date of publication: 2005
(Planned) event: Int. Conf. on Nitride Semiconductors 6, Bremen
(Planned) date of presentation: 2005-08-28 to 2005-09-02
Research paper in international journal? (y/n): n
Status:
Submitted to Network Office: 2005-04-15
 • **ID:** 00089
Authors: H. Eisele, A. Lenz, R. Timm, and M. Dähne
Authors - SANDiE partners: P04 (TU Berlin)
Title: Structural Characterization of Buried Nanostructures by Cross-Sectional Scanning Tunneling Microscopy
(Planned) event: ICFSI, Aix en Provence (France)
(Planned) date of presentation: 2005-07-02 to 2005-07-08
Research paper in international journal? (y/n): n
Status: Talk, accepted
Submitted to Network Office: 2005-04-14
 • **ID:** 00088
Authors: R. Timm, H. Eisele, A. Lenz, J. Grabowski, R. M. Feenstra, and M. Dähne
Authors - SANDiE partners: P04 (TU Berlin)
Title: Formation, Atomic Structure and Type-II Band Alignment of GaSb/GaAs Quantum Dots Studied by Cross-Sectional STM
(Planned) event: MSM14, Oxford (UK)
(Planned) date of presentation: 2005-04-10 to 2005-04-15
Research paper in international journal? (y/n): n
Status: Talk, presented
Submitted to Network Office: 2005-04-14
 • **ID:** 00087
Authors: R. Timm, A. Lenz, J. Grabowski, H. Eisele, K. Pötschke, L. Müller-Kirsch, U. W. Pohl, D. Bimberg, and M. Dähne
Authors - SANDiE partners: P04 (TU Berlin)
Title: Formation and Atomic Structure of GaSb Quantum Dots in GaAs Studied by Cross-Sectional Scanning Tunneling Microscopy
(Planned) event: EW-MOVPE XI, Lausanne (Switzerland)
(Planned) date of presentation: 2005-06-05 to 2005-06-08
Research paper in international journal? (y/n): n
Status: Poster, presented
Submitted to Network Office: 2005-04-14
 • **ID:** 00086
Authors: R. Timm, T.-Y. Kim, A. Lenz, H. Eisele, K. Pötschke, U. W. Pohl, D. Bimberg und M. Dähne
Authors - SANDiE partners: P04 (TU Berlin)
Title: Struktur und Stochiometrie von InAs/GaAs Quantenpunkten mit Sb-Beimischungen
(Planned) event: Spring-Meeting of the German Physical Society in Berlin (Germany)
(Planned) date of presentation: 2005-03-04 to 2005-03-09
Research paper in international journal? (y/n): n
Status: Talk, presented
Submitted to Network Office: 2005-04-14
 • **ID:** 00085
Authors: R. Timm, H. Eisele, A. Lenz, S. K. Becker, J. Grabowski, T.-Y. Kim, L. Müller-Kirsch, K. Pötschke, U. W. Pohl, D. Bimberg, M. Dähne
Authors - SANDiE partners: P04 (TU Berlin)
Title: Structure and intermixing of GaSb/GaAs quantum dots
(Planned) journal: Applied Physics Letters, Vol. 85, Number 24, 5890
(Planned) date of publication: 2004-12-13
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-04-14
 • **ID:** 00084
Authors: A. Lenz, H. Eisele, R. Timm, R.L. Sellin, U.W. Pohl, D. Bimberg, and M. Dähne
Authors - SANDiE partners: P04 (TU Berlin)
Title: Limits of In(Ga)As/GaAs quantum dot growth studied by cross-sectional scanning tunneling microscopy
(Planned) event: ICFSI, Aix en Provence (France)
(Planned) date of presentation: 2005-07-02 to 2005-07-08
Research paper in international journal? (y/n): n
Status: Poster, accepted
Submitted to Network Office: 2005-04-14
 • **ID:** 00083
Authors: I.A. Vartanyants, I.K. Robinson, J.D. Onken, M.A. Pfeifer, G.J. Williams, F. Pfeiffer, H. Metzger, Z. Zhong, G. Bauer
Authors - SANDiE partners: P18 (Uni Linz), P23 (MPI Stuttgart)
Title: Coherent x-ray diffraction from quantum dots
(Planned) journal: Phys. Rev. B 71, 245302-1/9 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-04-10
 • **ID:** 00081
Authors: B. Dagens, A. Martinez, D. Make, O. Le Guezigou, L. Ferlazzo, K. Mergem, A. Lemaitre, A. Ramdane, B. Thedrez
Authors - SANDiE partners: P11 (LPN/CNRS)
Title: HIGH EXTINCTION RATIO AND HIGH TEMPERATURE 2.5 GB/S FLOOR FREE 1.3 μ M TRANSMISSION WITH A MODULATED QUANTUM DOT LASER
(Planned) event: ECIO 05: 12 th EUROPEAN CONFERENCE ON INTEGRATED OPTICS

(Planned) date of presentation: 2005

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-04-06

• **ID:** 00080

Authors: A. Martinez, J.-G. Provost, A. Lemaitre, O. Gautier-Lafaye, B. Dagens, K. Merghem, L. Ferlazzo, C. Dupuis, O. Le Gouezigou, A. Ramdane

Authors - SANDiE partners: P11 (LPN/CNRS)

Title: Static and Dynamic Measurements of the Henry Factor of 5 - Quantum Dot Layer Single Mode Lasers emitting at 1.3 μ m on GaAs

(Planned) event: Int Conf on Lasers and Electro-Optics CLEO 2005, Baltimore

(Planned) date of presentation: 2005-05

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-04-06

• **ID:** 00079

Authors: R. Seguin, A. Schliwa, S. Rodt, K. Pötschke, D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Quantum dot size dependence of exciton fine structure splitting

(Planned) event: MSS-12 Meeting Albuquerque (USA)

(Planned) date of presentation: 2005-07-10 to 2005-07-15

(Planned) journal: Special Issue Physica E

Research paper in international journal? (y/n): y

Status:

Submitted to Network Office: 2005-04-05

• **ID:** 00078

Authors: A.G.Gladyshev, A.V.Savelyev, N.V.Kryzhanovskaya, S.A.Blokhin, A.P.Vasil'ev, E.S.Semenova, A.E.Zhukov, R.P.Seisyan, M.V.Maximov, N.N.Ledentsov, V.M.Ustinov

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin)

Title: Modeling of excitation dependences of the photoluminescence from InAs quantum dots

(Planned) event: 13th Int. Symp. Nanostructures: Physics and Technology, St Petersburg, Russia,

(Planned) date of presentation: 2005-06-20 to 2005-06-25

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-04-05

• **ID:** 00077

Authors: N.V.Kryzhanovskaya, A.G.Gladyshev, S.A.Blokhin, A.P.Vasil'ev, E.S.Semenova, A.E.Zhukov, M.V.Maximov, N.N.Ledentsov, V.M.Ustinov, D.Bimberg

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin)

Title: Temperature stability of optical properties of InAs quantum dots overgrown by AlAs/InAlAs layers

(Planned) event: 13th Int. Symp. Nanostructures: Physics and Technology, St Petersburg, Russia,

(Planned) date of presentation: 2005-06-20 to 2005-06-25

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-04-05

• **ID:** 00076

Authors: T. Kettler, L.Ya. Karachinsky, A. Lochmann, O. Schulz, L. Reissmann, N.Yu. Gordeev, I.I. Novikov, M.V. Maximov, Yu.M. Shernyakov, N.V. Kryzhanovskaya, A.E. Zhukov, A.P. Vasil'ev, E.S. Semenova, V.M. Ustinov, N.N. Ledentsov, A.R. Kovsh, V.A. Shchukin, S.S. Mikhrin, D. Bimberg

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin), P28 (NL Nanosemiconductor)

Title: 220 mW single mode CW operation of InAs/InGaAs quantum dot lasers on GaAs substrates emitting at 1.5 μ m

(Planned) event: 13th Int. Symp. Nanostructures: Physics and Technology, St Petersburg, Russia

(Planned) date of presentation: 2005-06-20 to 2005-06-25

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-04-05

• **ID:** 00075

Authors: E.S.Semenova, A.E.Zhukov, A.P.Vasil'ev, V.S.Mikhrin, V.M.Ustinov, N.V.Kryzhanovskaya, A.G.Gladyshev, M.V.Maximov, N.N.Ledentsov

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg)

Title: Comparative study of GaAs-based 1.5 micron-range InAs/InGaAs and InAs/InAlAs self-assembled quantum dots

(Planned) event: International Conference Trends in Nanotechnology (TNT 2005) Oviedo, Spain

(Planned) date of presentation: 2005-08-29 to 2005-09-02

Research paper in international journal? (y/n): n

Status:

Submitted to Network Office: 2005-04-05

• **ID:** 00074

Authors: L.Ya.Karachinsky, T.Kettler, N.Yu.Gordeev, I.I.Novikov, M.V.Maximov, Yu.M.Shernyakov, N.V.Kryzhanovskaya, A.E.Zhukov, E.S.Semenova, A.P.Vasil'ev, V.M.Ustinov, N.N.Ledentsov, A.R.Kovsh, V.A.Shchukin, S.S.Mikhrin, A.Lochmann, O.Schulz, L.Reissmann, D.Bimberg

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin), P28 (NL Nanosemiconductor)

Title: High-Power CW operation of the 1.5 μ m-range quantum dot GaAs-based laser

(Planned) journal: Electron. Lett.41, No.8

(Planned) date of publication: 2005-04-14

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2005-04-05

• **ID:** 00073

Authors: P. Boucaud, X. Li, M. El Kurdi, S. David, X. Checoury, S. Sauvage, C. Kammerer, S. Cabaret, V. Le Thanh, D. Bouchier, J.-M. Lourtioz, O. Kermarrec, Y. Campidelli, D. Bensahel

Authors - SANDiE partners: P13 (Uni Paris)

Title: Ge islands and photonic crystals for Si-based photonics

(Planned) event: EMRS 2004, Strasbourg 24 - 28 Mai 2004/ Symposium A1 : Si-based photonics : towards true monolithic integration

(Planned) journal: Optical materials 27, 792 (2005)

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status:

Submitted to Network Office: 2005-04-04

• **ID:** 00072

Authors: P. Boucaud, S. Sauvage, F. Bras, G. Fishman, J.-M. Ortéga, J.-M. Gérard

Authors - SANDiE partners: P13 (Uni Paris)

Title: Pump-probe analysis of polaron decay in InAs/GaAs self-assembled quantum dots

(Planned) event: QD 2004 conference, Banff 10 -13 Mai 2004

(Planned) journal: Physica E 26, 59 (2005)

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status:

Submitted to Network Office: 2005-04-04

• **ID:** 00071

Authors: M. El Kurdi, S. David, P. Boucaud, C. Kammerer, X. Li, V. Le Thanh, S. Sauvage, J.-M. Lourtioz

Authors - SANDiE partners: P13 (Uni Paris)

Title: Strong 1.3-1.5 μm luminescence from Ge/Si self-assembled islands in highly-confining microcavities on silicon-on-insulator

(Planned) journal: Journal of Applied Physics 96, 997 (2004)

(Planned) date of publication: 2004

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2005-04-04

• **ID:** 00070

Authors: F. Bras, S. Sauvage, P. Boucaud, J.-M. Ortega, J.-M. Gérard

Authors - SANDiE partners: P13 (Uni Paris)

Title: Pump-probe analysis of polaron decay in InAs/GaAs self-assembled quantum dots

(Planned) journal: Semiconductor Science Technology 20, L10 (2005)

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2005-04-04

• **ID:** 00069

Authors: M. El kurdi, P. Boucaud, S. Sauvage, G. Fishman, O. Kermarrec, Y. Campidelli, D. Bensahel, G. Saint-Girons, I. Sagnes, and G. Patriarche

Authors - SANDiE partners: P11 (CNRS), P12 (INSA-LENS), P13 (Uni Paris)

Title: Electroabsorption spectroscopy of Ge/Si self-assembled islands

(Planned) journal: Journal of Applied Physics 97, 83525 52005

(Planned) date of publication: 2005-04-06

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2005-04-04

• **ID:** 00068

Authors: F. Bras, S. Sauvage, G. Fishman, P. Boucaud, J.-M. Ortega, J.-M. Gérard

Authors - SANDiE partners: P13 (Uni Paris)

Title: Fast decoherence of slowly relaxing polarons in semiconductor InAs quantum dots

(Planned) journal: Europhysics Letters 70, 390 (2005)

(Planned) date of publication: 2005-05-01

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2005-04-04

• **ID:** 00067

Authors: V.G.Dubrovskii, G.E.Cirlin, I.P.Soshnikov, A.A.Tonkikh, N.V.Sibirev, Yu.B.Samsonenko, V.M.Ustinov

Authors - SANDiE partners: P26 (Ioffe, St. Petersburg)

Title: DIFFUSION-INDUCED GROWTH OF GaAs NANOWHISKERS DURING MOLECULAR BEAM EPITAXY: THEORY AND EXPERIMENT

(Planned) journal: Physical Review B

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status:

Submitted to Network Office: 2005-04-04

• **ID:** 00066

Authors: S. Laurent, B. Eble, O. Krebs, A. Lemaître, B. Urbaszek, X. Marie, T. Amand, P. Voisin

Authors - SANDiE partners: P11 (LPN-CNRS)

Title: Electrical control of hole spin relaxation in charge tunable InAs/GaAs quantum dots

(Planned) journal: Physical Review Letters

(Planned) date of publication: 2005-04-20

Research paper in international journal? (y/n): y

Status:

Submitted to Network Office: 2005-03-31

- **ID:** 00065
Authors: B. Szafran, T. Chwiej, F.M. Peeters, S. Bednarek, J. Adamowski
Authors - SANDiE partners: P03 (Uni Antwerpen)
Title: Relative stability of negative and positive trions in model symmetric quantum wires
(Planned) journal: Physical Review B
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status:
Submitted to Network Office: 2005-03-30
- **ID:** 00064
Authors: M.Henini, M.Bugajski
Authors - SANDiE partners: P09 (Uni Nottingham)
Title: Advances in Self-Assembled Semiconductor Quantum Dot Lasers
(Planned) journal: Microelectronics Journal, Vol. 36, pp.950-956 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-03-30
- **ID:** 00063
Authors: M. Geller, E. Stock, R. Sellin, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Direct observation of tunneling emission to determine localization energies in selforganized quantum dots
(Planned) event: MSS-12 Meeting Albuquerque (USA)
(Planned) date of presentation: 2005-07-10 to 2005-07-15
(Planned) journal: Special Issue Physica E
Research paper in international journal? (y/n): y
Status:
Submitted to Network Office: 2005-03-29
- **ID:** 00062
Authors: C. Platz, C. Paranthoën, N. Bertru, C. Labbé, J. Even, O. Dehaese, H. Folliot, A. Le Corre, S. Loualiche, G. Moreau, J. C. Simon, A. Ramdane
Authors - SANDiE partners: P11 (LPN CNRS), P12 (INSA-LENS)
Title: Comparison of InAs quantum dot lasers emitting at 1.55 μm under optical and electrical injection
(Planned) journal: Semiconductor science technology
(Planned) date of publication: 2005-03-23
Research paper in international journal? (y/n): y
Status:
Submitted to Network Office: 2005-03-24
- **ID:** 00061
Authors: E. Gombia, R. Mosca, S. Amighetti, S. Franchi, P. Frigeri, C. Ghezzi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Electrical Characterization of InAs/GaAs quantum dot structures
(Planned) event: E-MRS 2005 Spring Meeting - Symposium A, Strasbourg, France
(Planned) date of presentation: 2005-06-03
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-03-16
- **ID:** 00060
Authors: L. Seravalli, P. Frigeri, M. Minelli, P. Allegri, V. Avanzini, S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Metamorphic self-assembled quantum-dot nanostructures
(Planned) event: E-MRS 2005 Spring Meeting - Symposium A, Strasbourg, France
(Planned) date of presentation: 2005-06-03
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-03-16
- **ID:** 00059
Authors: L. Seravalli, P. Frigeri, M. Minelli, P. Allegri, V. Avanzini, S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Quantum dot strain-engineering for light emission at 1.3, 1.4 and 1.5 μm
(Planned) journal: Applied Physics Letters 87 063101 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-03-16
- **ID:** 00058
Authors: G. Trevisi, P. Frigeri, M. Minelli, C. Bocchi, P. Allegri, V. Avanzini, S. Franchi
Authors - SANDiE partners: P14 (CNR-IMEM)
Title: Engineering of MBE quantum dot nanostructures for 980 nm emission
(Planned) event: One day QD meeting, Nottingham, UK
(Planned) date of presentation: 2005-04-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-03-16
- **ID:** 00057
Authors: C. Cornet, C. Labbé, H. Folliot, N. Bertru, O. Dehaese, J. Even, A. Lecorre, C. Paranthoën, C. Platz, S. Loualiche
Authors - SANDiE partners: P12 (INSA-LENS)

Title: Quantitative investigation of optical absorption in InAs/InP(311)B quantum dots emitting at 1.55mm wavelength

(Planned) journal: Applied Physics Letters

(Planned) date of publication: 2004-12-06

Research paper in international journal? (y/n): y

Status:

Submitted to Network Office: 2005-03-03

• **ID:** 00056

Authors: M. Grundmann

Authors - SANDiE partners: P01 (Uni Leipzig)

Title: Selbstorganisation von Halbleiter-Nanostrukturen: Kontrolle und komplexe Strukturen

(Planned) event: VDI-TZ, "Technische Anwendung der Selbstorganisation", invited talk

(Planned) date of presentation: 2005-06-02

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-03-03

• **ID:** 00055

Authors: M. Grundmann

Authors - SANDiE partners: P01 (Uni Leipzig)

Title: Electrical properties of ZnO thin films and optical properties of ZnO-based nanostructures, invited talk

(Planned) event: EMRS Spring Meeting, Strassburg, invited talk

(Planned) date of presentation: 2005-05-31 to 2005-06-03

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-03-03

• **ID:** 00054

Authors: M. Grundmann

Authors - SANDiE partners: P01 (Uni Leipzig)

Title: Electrical properties of ZnO thin films and optical properties of ZnO-based nanostructures

(Planned) event: FVS-Workshop TCO III "TCOs für Dünnschichtszellens und andere Anwendungen", invited talk

(Planned) date of presentation: 2005-04-12

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-03-03

• **ID:** 00053

Authors: M. Grundmann

Authors - SANDiE partners: P01 (Uni Leipzig)

Title: Electrical properties of ZnO thin films and optical properties of ZnO-based nanostructures

(Planned) event: Spring-Meeting of the German Physical Society in Berlin, Symposium "ZnO - Rediscovered", invited talk

(Planned) date of presentation: 2005-03-04 to 2005-03-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-03-03

• **ID:** 00052

Authors: M. Grundmann

Authors - SANDiE partners: P01 (Uni Leipzig)

Title: ZnO thin films and photonic nanostructures

(Planned) event: Kolloquium des Fachbereichs Physik der Universität Karlsruhe, invited talk

(Planned) date of presentation: 2004-12-17

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-03-03

• **ID:** 00051

Authors: M. Grundmann

Authors - SANDiE partners: P01 (Uni Leipzig)

Title: Theory of Quantum Dot Lasers

(Planned) event: QD Summer School, Monte Verità, Ascona, Switzerland, invited talk

(Planned) date of presentation: 2004-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-03-03

• **ID:** 00050

Authors: A. Rahm, G.W. Yang, M. Lorenz, Th. Nobis, J. Lenzner, G. Wagner, M. Grundmann

Authors - SANDiE partners: P01 (Uni Leipzig)

Title: Wachstum und Charakterisierung zweidimensionaler ZnO:Al Nanoblätter und Nanowände durch Al₂O₃-unterstützte Carbothermale Verdampfung

(Planned) event: Spring-Meeting of the German Physical Society in Berlin

(Planned) date of presentation: 2005-03-04 to 2005-03-09

Research paper in international journal? (y/n): n

Status: presented

Submitted to Network Office: 2005-03-03

• **ID:** 00049

Authors: Th. Nobis, A. Rahm, E. M. Kaidashev, M. Lorenz, M. Grundmann

Authors - SANDiE partners: P01 (Uni Leipzig)

Title: Whispering Gallery Moden in hexagonalen Zinkoxid Mikro- und Nanoresonatoren

(Planned) event: Spring-Meeting of the German Physical Society in Berlin

(Planned) date of presentation: 2005-03-04 to 2005-03-09

Research paper in international journal? (y/n): n

Status: presented
Submitted to Network Office: 2005-03-03
• **ID:** 00048
Authors: T. Hammerschmidt, P. Kratzer, M. Scheffler
Authors - SANDiE partners: P27 (Fritz-Haber-Institut)
Title: Atomistic investigation of InAs quantum dots at different growth stages
(Planned) event: Spring-Meeting of the German Physical Society in Berlin
(Planned) date of presentation: 2005-03-04 to 2005-03-09
Research paper in international journal? (y/n): n
Status:
Submitted to Network Office: 2005-03-03
• **ID:** 00047
Authors: M. Lorenz, E. M. Kaidashev, A. Rahm, Th. Nobis, J. Lenzner, G. Wagner, D. Spemann, H. Hochmuth, M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: $Mg_xZn_{1-x}O$ ($0 \leq x < 0.2$) nanowire arrays on sapphire grown by high-pressure pulsed-laser deposition
(Planned) event: SOXESS Workshop, Caernarfon, Wales, UK
(Planned) date of presentation: 2004-10-27 to 2004-10-30
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-02-23
• **ID:** 00046
Authors: M. Lorenz, E. M. Kaidashev, A. Rahm, Th. Nobis, J. Lenzner, G. Wagner, D. Spemann, H. Hochmuth, M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: $Mg_xZn_{(1-x)}O$ ($0 \leq x < 0.25$) nanowire arrays on sapphire grown by high-pressure pulsed-laser deposition
(Planned) event: International Workshop on Oxide Electronics, Hakone, Japan
(Planned) date of presentation: 2004-10-03 to 2004-10-05
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-02-23
• **ID:** 00045
Authors: M. Lorenz, E. M. Kaidashev, A. Rahm, T. Nobis, J. Lenzner, G. Wagner, D. Spemann, H. Hochmuth, M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: $Mg_xZn_{(1-x)}O$ ($0 \leq x < 0.25$) nanowire arrays on sapphire grown by high-pressure pulsed-laser deposition
(Planned) event: International Workshop on ZnO and related Materials, Sendai, Japan
(Planned) date of presentation: 2004-10-05 to 2004-10-08
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2005-02-23
• **ID:** 00044
Authors: N. Schildermans, M. Hayne, V.V. Moshchalkov, A. Rastelli, O.G. Schmidt
Authors - SANDiE partners: P02 (Uni Leuven), P23 (MPI Stuttgart)
Title: Band Non-parabolicity Effects in GaAs/Al_xGa_{1-x}As Quantum Dots and Ultra-thin Quantum Wells
(Planned) journal: Physical Review B 72, 115312 (2005)
(Planned) date of publication: 2005-07-26
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-02-22
• **ID:** 00043
Authors: A. Rahm, G.W. Yang, M. Lorenz, T. Nobis, J. Lenzner, G. Wagner, M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Two-dimensional ZnO:Al nanosheets and nanowalls obtained by Al₂O₃-assisted carbothermal evaporation
(Planned) journal: Thin Solid Films 486 (2005) 191-194
(Planned) date of publication: 2005-02-01
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-02-18
• **ID:** 00042
Authors: Th. Nobis, E. M. Kaidashev, A. Rahm, M. Lorenz, M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: Whispering Gallery Modes in Nanosized Dielectric Resonators with Hexagonal Cross Section
(Planned) journal: Physical Review Letters 93, 103903 (2004)
(Planned) date of publication: 2004-09-03
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-02-18
• **ID:** 00041
Authors: M. Lorenz, E. M. Kaidashev, A. Rahm, Th. Nobis, J. Lenzner, G. Wagner, D. Spemann, H. Hochmuth, M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)
Title: $Mg_xZn_{1-x}O$ ($0 \leq x < 0.2$) nanowire arrays on sapphire grown by high-pressure pulsed-laser deposition
(Planned) journal: Applied Physics Letters 86, 143113 (2005)
(Planned) date of publication: 2005-03-31
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-02-18
• **ID:** 00040
Authors: S. Jaensch, H. Schmidt, M. Grundmann
Authors - SANDiE partners: P01 (Uni Leipzig)

Title: Quantitative scanning capacitance microscopy
(Planned) event: 23rd International Conference on Defects in Semiconductors, Awaji Island, Hyogo, Japan
(Planned) date of presentation: 2005-07-24 to 2005-07-29
Research paper in international journal? (y/n): n
Status: submitted
Submitted to Network Office: 2005-02-16
 • **ID:** 00039
Authors: H. Y. Liu, D. T. Childs, T. J. Badcock, K. M. Groom, I. R. Sellers, M. Hopkinson, R. A. Hogg, D. J. Robbins, D. J. Mowbray, M. S. Skolnick
Authors - SANDiE partners: P08 (Uni Sheffield), P19 (Bookham)
Title: High-Performance 3-layer 1.3 μm InAs/GaAs Quantum-Dot Lasers with Very Low Continuous-Wave Room-Temperature Threshold Currents
(Planned) journal: IEEE Photonic Technologies Letters
(Planned) date of publication:
Research paper in international journal? (y/n): y
Status:
Submitted to Network Office: 2005-02-15
 • **ID:** 00038
Authors: Kimberly A. Dick, Knut Deppert, Thomas Mårtensson, Bernhard Mandl, Lars Samuelson, Werner Seifert
Authors - SANDiE partners: P06 (Uni Lund), P18 (Uni Linz)
Title: Failure of the vapor-liquid-solid mechanism in Au-assisted growth of InAs nanowires
(Planned) journal: NanoLetters 5, 761-764 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-02-15
 • **ID:** 00037
Authors: A. Paarmann, T. Warming, F. Guffarth, A. Hoffmann, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Local phonons in self-organized quantum dots
(Planned) journal: Physical Review B
(Planned) date of publication: y
Research paper in international journal? (y/n):
Status:
Submitted to Network Office: 2005-02-15
 • **ID:** 00036
Authors: L. Ya. Karachinsky, T. Kettler, N. Yu. Gordeev, I. I. Novikov, M. V. Maximov, Yu. M. Shernyakov, N. V. Kryzhanovskaya, A. E. Zhukov, E. S. Semenova, A. P. Vasil'ev, V. M. Ustinov, N. N. Ledentsov, A. R. Kovsh, V. A. Shchukin, S. S. Mikhlin, A. Lochmann, O. Schulz, L. Reissmann, D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg), P28 (NL Nanosemiconductor, Dortmund)
Title: High-Power Single Mode CW Operation of the 1.5 μm -Range Quantum Dot GaAs-based Laser
(Planned) journal: Electronic Letters
(Planned) date of publication: 2005-05
Research paper in international journal? (y/n): y
Status:
Submitted to Network Office: 2005-02-11
 • **ID:** 00035
Authors: S. Schneider, U. Woggon, P. Borri, W. Langbein, R. L. Sellin, D. Ouyangy, D. Bimberg
Authors - SANDiE partners: P20 (U Dortmund), P04 (TU Berlin)
Title: Excited-state gain dynamics in InGaAs quantum dot amplifiers
(Planned) journal: IEEE Photonics Technology Letters 17, p. 2014 (2005)
(Planned) date of publication: 2005-10
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-02-11
 • **ID:** 00034
Authors: C. P. T. Svensson, W. Seifert, M. W. Larsson, J. Stangl, G. Bauer, L. Samuelson
Authors - SANDiE partners: P06 (Uni Lund), P18 (Uni Linz)
Title: Epitaxially grown GaP/GaAsP/GaP double heterostructure nanowires for optical applications
(Planned) journal: Nanotechnology 16, 936-939 (2005)
(Planned) date of publication: 2005
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2005-01-27
 • **ID:** 00033
Authors: Victor M. Ustinov, Nikolai A. Maleev, Alexey R. Kovsh and Alexey E. Zhukov
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg)
Title: Quantum dot VCSELs
(Planned) journal: Physica Status Solidi
(Planned) date of publication:
Research paper in international journal? (y/n): y
Status:
Submitted to Network Office: 2005-01-13
 • **ID:** 00032
Authors: K. Kowalik, O. Krebs, A. Lemaître, S. Laurent, P. Senellart, P. Voisin, and J.A. Gaj
Authors - SANDiE partners: P11 (LPN CNRS)
Title: Influence of an in-plane electric-field on exciton fine structure in InAs-GaAs self-assembled quantum dots

(Planned) journal: Applied Physics Letters
(Planned) date of publication: 2005-01-31
Research paper in international journal? (y/n): y
Status:
Submitted to Network Office: 2004-12-15

- **ID:** 00031
Authors: D. Méndez, F.M. Morales, S.I. Molina, D. Araújo, E. Bustarret, E. Martínez-Guerrero and H. Mariette
Authors - SANDiE partners: P17 (Uni Cádiz)
Title: Cubic GaN quantum dots nucleated on planar defects
(Planned) event: Congress XIV Microscopy of Semiconducting Materials, Oxford
(Planned) date of presentation: 2005-04-11 to 2005-04-14
Research paper in international journal? (y/n): n
Status:
Submitted to Network Office: 2004-12-09
- **ID:** 00030
Authors: M. Herrera, D. González, J. G. Lozano, R. García, M. Hopkinson, H.Y. Liu, M. Gutiérrez and P. Navaretti
Authors - SANDiE partners: P17 (Uni Cádiz), P08 (Uni Sheffield)
Title: Activation energy for surface diffusion in GaInNAs quantum wells
(Planned) event: Congress XIV Microscopy of Semiconducting Materials, Oxford
(Planned) date of presentation: 2005-04-11 to 2005-04-14
Research paper in international journal? (y/n): n
Status:
Submitted to Network Office: 2004-12-09
- **ID:** 00029
Authors: A. V. Uskov, E. P. O'Reilly, M. Laemmlin, N. N. Ledentsov and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg), P28 (NL Nanosemiconductor, Dortmund)
Title: On gain saturation in quantum dot semiconductor optical amplifiers
(Planned) journal: Optics Communications
(Planned) date of publication: 2005-04-01
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2004-12-08
- **ID:** 00028
Authors: N.V.Kryzhanovskaya, A.Yu.Egorov, V.V.Mamutin, N.K.Polyakov, A.F.Tsatsul'nikov, A.R.Kovsh, N.N.Ledentsov, V.M.Ustinov, D.Bimberg
Authors - SANDiE partners: P26 (Ioffe, St. Petersburg), P04 (TU Berlin)
Title: The optical properties of heterostructures with InGaAsN layers on GaAs substrate, emitting at 1.3-1.55 mkm
(Planned) journal: Semiconductors (translated from: Fizika i tekhnika poluprovodnikov)
(Planned) date of publication: 2005-06-01
Research paper in international journal? (y/n): y
Status: published
Submitted to Network Office: 2004-12-07
- **ID:** 00027
Authors: J. Pizarro, E. Guerrero, T. Ben, P. L. Galindo, A. Yáñez, S. I. Molina
Authors - SANDiE partners: P17 (Uni Cádiz)
Title: Quantitative analysis of HRTEM images by Pattern Recognition methods
(Planned) event: Congress XIV Microscopy of Semiconducting Materials, Oxford
(Planned) date of presentation: 2005-04-11 to 2005-04-14
Research paper in international journal? (y/n): n
Status:
Submitted to Network Office: 2004-12-07
- **ID:** 00026
Authors: P. L. Galindo, A. Yáñez, J. Pizarro, E. Guerrero, T. Ben, S. I. Molina
Authors - SANDiE partners: P17 (Uni Cádiz)
Title: Strain mapping from HRTEM images
(Planned) event: Congress XIV Microscopy of Semiconducting Materials, Oxford
(Planned) date of presentation: 2005-04-11 to 2005-04-14
Research paper in international journal? (y/n): n
Status:
Submitted to Network Office: 2004-12-07
- **ID:** 00025
Authors: T. Ben, R. García, D. Fuster, M. U. González, Y. González, L. González, S. Kret and S. I. Molina
Authors - SANDiE partners: P17 (Uni Cádiz), P22 (CSIC, Madrid)
Title: Quantitative measurements of the inhomogeneous strain field of stacked self-assembled InAs/InP(001) quantum wires by the Peak Finding Method
(Planned) event: Congress XIV Microscopy of Semiconducting Materials, Oxford
(Planned) date of presentation: 2005-04-11 to 2005-04-14
Research paper in international journal? (y/n): n
Status:
Submitted to Network Office: 2004-12-07
- **ID:** 00024
Authors: T. Ben, J. Olvera, S. I. Molina, R. García, D. Granados and J. M. García
Authors - SANDiE partners: P17 (Uni Cádiz), P22 (CSIC, Madrid)
Title: Compositional and strain distribution in InAs/GaAs(001) stacked quantum rings
(Planned) event: Congress XIV Microscopy of Semiconducting Materials, Oxford
(Planned) date of presentation: 2005-04-11 to 2005-04-14
Research paper in international journal? (y/n): n

Status:**Submitted to Network Office:** 2004-12-07

- **ID:** 00023

Authors: A. Strittmatter, L. Reißmann, T. Riemann, P. Veit, J. Christen, D. Bimberg**Authors - SANDiE partners:** P04 (TU Berlin)**Title:** Spectral Properties of InGaN/GaN Structures Grown on Non-Planar Si(111) Substrates**(Planned) event:** MRS Fall Meeting 2004, Boston (USA)**(Planned) date of presentation:** 01.12.2004**Research paper in international journal? (y/n):** n**Status:****Submitted to Network Office:** 2004-11-24

- **ID:** 00022

Authors: S. Schneider, U. Woggon, P. Borri, W. Langbein, D. Ouyang, R. L. Sellin, D. Bimberg**Authors - SANDiE partners:** P20 (Uni Dortmund), P04 (TU Berlin)**Title:** Ultrafast Gain Recovery Dynamics of the Excited State in InGaAs Quantum Dot Amplifiers**(Planned) event:** CLEO/QELS 2005, Baltimore**(Planned) date of presentation:****Research paper in international journal? (y/n):** n**Status:****Submitted to Network Office:** 2004-11-24

- **ID:** 00021

Authors: A. E. Zhukov, A. R. Kovsh, V. M. Ustinov, N. N. Ledentsov, Zh. I. Alferov**Authors - SANDiE partners:** P26 (Ioffe, St. Petersburg), P28 (NL-Nanosemiconductor)**Title:** Long-wavelength lasers based on metamorphic quantum dots**(Planned) journal:** Microelectronic Engineering**(Planned) date of publication:****(Planned) event:** Symposium and Summer School Nano and Giga Challenges in Microelectronics in Cracow, Poland**(Planned) date of presentation:** 2004-09-13 to 2004-09-17**Research paper in international journal? (y/n):** y**Status:****Submitted to Network Office:** 2004-11-22

- **ID:** 00020

Authors: S. Franchi, G. Trevisi, L. Seravalli and P. Frigeri**Authors - SANDiE partners:** P14 (CNR-IMEM, Parma)**Title:** QUANTUM DOT NANOSTRUCTURES AND MOLECULAR BEAM EPITAXY**(Planned) journal:** Progress in Crystal Growth and Material Characterization 47 166 (2003) (© 2005)**(Planned) date of publication:****Research paper in international journal? (y/n):** y**Status:** published**Submitted to Network Office:** 2004-11-20

- **ID:** 00019

Authors: P. Alonso-González, M.S. Martín-González, Y. González and L. González**Authors - SANDiE partners:** P22 (CSIC, Madrid)**Title:** Al/GaAs (001) MBE growth for fabrication of porous alumina masks**(Planned) event:** 13th European Molecular Beam Epitaxy Workshop in Grindelwald, Switzerland**(Planned) date of presentation:** 2005-03-07 to 2005-03-09**Research paper in international journal? (y/n):** n**Status:****Submitted to Network Office:** 2004-11-19

- **ID:** 00018

Authors: J. Martín-Sánchez, Y. González, L. González, M. Tello, R. García, D. Granados, J. M. García and F. Briones**Authors - SANDiE partners:** P22 (CSIC, Madrid)**Title:** Ordered InAs quantum dots on pre-patterned GaAs (001) by local oxidation nanolithography**(Planned) journal:****(Planned) date of publication:****Research paper in international journal? (y/n):** n**Status:****Submitted to Network Office:** 2004-11-19

- **ID:** 00017

Authors: D. Granados, J. M. García, T. Ben and S. I. Molina**Authors - SANDiE partners:** P22 (CSIC, Madrid), P17 (U Cádiz)**Title:** Vertical order in stacked layers of self-assembled In(Ga)As quantum rings on GaAs(001)**(Planned) journal:****(Planned) date of publication:** n**Research paper in international journal? (y/n):****Status:****Submitted to Network Office:** 2004-11-19

- **ID:** 00016

Authors: D. Granados and J. M. García**Authors - SANDiE partners:** P22 (CSIC, Madrid)**Title:** Capacitance Spectroscopy of Self-Assembled InGaAs Quantum Rings**(Planned) event:** 13th European Molecular Beam Epitaxy Workshop in Grindelwald, Switzerland**(Planned) date of presentation:** 2005-03-07 to 2005-03-09**Research paper in international journal? (y/n):** n**Status:** presented**Submitted to Network Office:** 2004-11-19

- **ID:** 00015
Authors: F. Suárez, W. Wang, D. Fuster, L. González, Y. González, D. Golmayo, J.M. García and M.L. Dotor
Authors - SANDiE partners: P22 (CSIC, Madrid)
Title: Self-assembled InAs Quantum Wires Lasers on InP(001) at 1.66 micron
(Planned) event: 13th European Molecular Beam Epitaxy Workshop in Grindelwald, Switzerland
(Planned) journal: Applied Physics Letters 89, 091123 (2006)
(Planned) date of presentation: 2005-03-07 to 2005-03-09
Research paper in international journal? (y/n): y
Status: presented, published
Submitted to Network Office: 2004-11-19
- **ID:** 00014
Authors: D. Granados and J. M. García
Authors - SANDiE partners: P22 (CSIC, Madrid)
Title: Energy level tuning of Self-Assembled Quantum Dots and Quantum Rings
(Planned) event: The International Society of Optical Engineering in Sevilla, Spain
(Planned) date of presentation: 2005-05-09 to 2005-05-11
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2004-11-19
- **ID:** 00013
Authors: W. Wiczczyk, T. Warming, M. Geller, V. M. Ustinov, A. Zhukov, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin), P26 (Ioffe, St. Petersburg)
Title: Electron and hole storage in InAs/GaAs quantum dots
(Planned) event: Spring-Meeting of the German Physical Society in Berlin
(Planned) date of presentation: 2005-03-04 to 2005-03-09
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2004-11-19
- **ID:** 00012
Authors: A. Strittmatter, L. Reißmann, A. Hoffmann, D. Bimberg, P. Veit, T. Riemann, J. Christen
Authors - SANDiE partners: P04 (TU Berlin)
Title: Lumineszenz von InGaN/GaN-Schichten in Abhängigkeit von der Versetzungsdichte und der Schichtanzahl
(Planned) event: Spring-Meeting of the German Physical Society in Berlin
(Planned) date of presentation: 2005-03-04 to 2005-03-09
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2004-11-16
- **ID:** 00011
Authors: V. Mlinar, M. Tadic, B. Partoens, and F. M. Peeters
Authors - SANDiE partners: P03 (U Antwerpen)
Title: Nonsymmetrized Hamiltonian for semiconducting nanostructures in a magnetic field
(Planned) journal: Physical Review B
(Planned) date of publication:
Research paper in international journal? (y/n): y
Status:
Submitted to Network Office: 2004-11-16
- **ID:** 00010
Authors: Y. Sidor, B. Partoens, and F. M. Peeters
Authors - SANDiE partners: P03 (U Antwerpen)
Title: Exciton in a quantum wire in the presence of parallel and perpendicular magnetic fields
(Planned) journal: Physical Review B
(Planned) date of publication:
Research paper in international journal? (y/n): y
Status:
Submitted to Network Office: 2004-11-16
- **ID:** 00009
Authors: M. Geller, E. Stock, C. Kapteyn, R. Sellin, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Determination of electron and hole localization in InAs/GaAs quantum dots via direct observation of tunneling escape
(Planned) event: Spring-Meeting of the German Physical Society in Berlin
(Planned) date of presentation: 2005-03-04 to 2005-03-09
Research paper in international journal? (y/n): n
Status: presented
Submitted to Network Office: 2004-11-12
- **ID:** 00008
Authors: P. Caroff, N. Bertru, C. Platz, O. Dehaese, A. Le Corre, S. Loualiche
Authors - SANDiE partners: P12 (INSA-LENS)
Title: Emission wavelength control of InAs quantum dots in a GaInAsP matrix grown on InP(311)B substrates
(Planned) journal: Journal of Crystal Growth
(Planned) date of publication:
Research paper in international journal? (y/n): y
Status:
Submitted to Network Office: 2004-11-03
- **ID:** 00007
Authors: M. Geller, C. Kapteyn, E. Stock, R. Sellin, K. Pötschke, and D. Bimberg
Authors - SANDiE partners: P04 (TU Berlin)
Title: Deep level transient spectroscopy of self-organized quantum dots

(Planned) journal: Semiconductor News 13 (4), 235-243 (2004)

(Planned) date of publication: 2004-12

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2004-11-01

• **ID:** 00006

Authors: A. Lemaître, G. Patriarche and F. Glas

Authors - SANDiE partners: P11 (LPN CNRS)

Title: Composition profiling of InAs/GaAs quantum dots

(Planned) journal: Applied Physics Letters

(Planned) date of publication: 2004-10-25

Research paper in international journal? (y/n): y

Status:

Submitted to Network Office: 2004-10-28

• **ID:** 00005

Authors: S. Rodt, A. Schliwa, K. Pötschke, F. Guffarth, and D. Bimberg

Authors - SANDiE partners: P04 (TU Berlin)

Title: Correlation of structural and few-particle properties of self-organized InAs/GaAs quantum dots

(Planned) journal: Physical Review B 71 (2005)

(Planned) date of publication: 2005-04-28

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2004-10-26

• **ID:** 00004

Authors: T. U. Schüllli, M. Stoffel, A. Hesse, J. Stangl, R. T. Lechner, E. Wintersberger, M. Sztucki, T. H. Metzger, O. G. Schmidt, G. Bauer

Authors - SANDiE partners: P18 (U Linz), P23 (MPI Stuttgart)

Title: Influence of growth temperature on interdiffusion in uncapped SiGe-islands on Si(001) determined by anomalous x-ray diffraction and reciprocal space mapping

(Planned) journal: Physical Review B 71, 03526-1/9 (2005)

(Planned) date of publication: 2005

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2004-10-20

• **ID:** 00003

Authors: R. Heitz, F. Guffarth, K. Pötschke, A. Schliwa, D. Bimberg, N. D. Zakharov, and P. Werner

Authors - SANDiE partners: P04 (TU Berlin), P05 (MPI Halle)

Title: Shell-like formation of self-organized InAs/GaAs quantum dots

(Planned) journal: Physical Review B 71

(Planned) date of publication: 2005-01-20

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2004-10-14

• **ID:** 00002

Authors: A. Lenz, H. Eisele, R. Timm, S. K. Becker, R. L. Sellin, U. W. Pohl, D. Bimberg, and M. Dähne

Authors - SANDiE partners: P04 (TU Berlin)

Title: Nanovoids in InGaAs/GaAs quantum dots observed by cross-sectional scanning tunneling microscopy

(Planned) journal: Applied Physics Letters, 85, 3848 (2004)

(Planned) date of publication: 2004-10-25

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2004-10-05

• **ID:** 00001

Authors: S. Schneider, P. Borri, W. Langbein, U. Woggon, R. L. Sellin, D. Ouyang, and D. Bimberg

Authors - SANDiE partners: P20 (U Dortmund), P04 (TU Berlin)

Title: Linewidth enhancement factor in InGaAs quantum dot amplifiers

(Planned) journal: IEEE Journal of Quantum Electronics 40, 1423

(Planned) date of publication: 2004

Research paper in international journal? (y/n): y

Status: published

Submitted to Network Office: 2004-09-29