

Molecular glues for perovskite materials

Results

Project Information

PerovSAMs

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Project closed

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Actions

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EU contribution

€ 170 121,60

Coordinated by

UNIVERSITAT DE VALENCIA



Spain

CORDIS provides links to public deliverables and publications of HORIZON projects.

Links to deliverables and publications from FP7 projects, as well as links to some specific result types such as dataset and software, are dynamically retrieved from [OpenAIRE](#) .

Publications

Peer reviewed articles (14) 

[Coating Evaporated MAPI Thin Films with Organic Molecules: Improved Stability at High Temperature and Implementation in High-Efficiency Solar Cells](#) 

Author(s): Francisco Palazon, Daniel Pérez-del-Rey, Sergio Marras, Mirko Prato, Michele Sessolo, Henk J. Bolink, Liberato Manna
Published in: ACS Energy Letters, Issue 3/4, 2018, Page(s) 835-839, ISSN 2380-8195
Publisher: American Chemical Society
DOI: 10.1021/acsenerylett.8b00193

[Incorporation of potassium halides in the mechanosynthesis of inorganic perovskites: feasibility and limitations of ion-replacement and trap passivation](#) 

Author(s): Yousra El Ajjouri, Vladimir S. Chirvony, Michele Sessolo, Francisco Palazon, Henk J. Bolink
Published in: RSC Advances, Issue 8/72, 2018, Page(s) 41548-41551, ISSN 2046-2069
Publisher: Royal Society of Chemistry
DOI: 10.1039/C8RA08823C

[Mechanochemical Synthesis of Sn\(II\) and Sn\(IV\) Iodide Perovskites and Study of Their Structural, Chemical, Thermal, Optical, and Electrical Properties](#) 

Author(s): Yousra El Ajjouri, Federico Locardi, María C. Gélvez-Rueda, Mirko Prato, Michele Sessolo, Maurizio Ferretti, Ferdinand C. Grozema, Francisco Palazon, Henk J. Bolink
Published in: Energy Technology, Issue 8/4, 2020, Page(s) 1900788, ISSN 2194-4288
Publisher: Wiley
DOI: 10.1002/ente.201900788

[Short Photoluminescence Lifetimes in Vacuum-Deposited CH₃NH₃PbI₃ Perovskite Thin Films as a Result of Fast Diffusion of Photogenerated Charge Carriers](#) 

Author(s): Vladimir S. Chirvony, Kairolla S. Sekerbayev, Daniel Pérez-del-Rey, Juan P. Martínez-Pastor, Francisco Palazon, Pablo P. Boix, Toktar I. Taurbayev, Michele Sessolo, Henk J. Bolink
Published in: The Journal of Physical Chemistry Letters, Issue 10/17, 2019, Page(s) 5167-5172, ISSN 1948-7185
Publisher: American Chemical Society
DOI: 10.1021/acs.jpcllett.9b02329

[Low-dimensional iodide perovskite nanocrystals enable efficient red emission](#) 

Author(s): Laura Martínez-Sarti, Seung Hyeon Jo, Young-Hoon Kim, Michele Sessolo, Francisco Palazon, Tae-Woo Lee, Henk J. Bolink
Published in: Nanoscale, Issue 11/27, 2019, Page(s) 12793-12797, ISSN 2040-3364
Publisher: Royal Society of Chemistry
DOI: 10.1039/c9nr04520a

[Room-Temperature Cubic Phase Crystallization and High Stability of Vacuum-Deposited Methylammonium Lead Triiodide Thin Films for High-Efficiency Solar Cells](#) 

Author(s): Francisco Palazon, Daniel Pérez-del-Rey, Benedikt Dänekamp, Chris Dreessen, Michele Sessolo, Pablo P. Boix, Henk J. Bolink

Published in: Advanced Materials, Issue 31/39, 2019, Page(s) 1902692, ISSN 0935-9648

Publisher: United Nations Industrial Development Organization

DOI: 10.1002/adma.201902692

[Low-dimensional non-toxic A₃Bi₂X₉ compounds synthesized by a dry mechanochemical route with tunable visible photoluminescence at room temperature](#) 

Author(s): Yousra El Ajjouri, Vladimir S. Chirvony, Natalia Vassilyeva, Michele Sessolo, Francisco Palazon, Henk J. Bolink

Published in: Journal of Materials Chemistry C, Issue 7/21, 2019, Page(s) 6236-6240, ISSN 2050-7534

Publisher: Royal Society of Chemistry

DOI: 10.1039/C9TC01765H

[Solvent-Free Synthesis and Thin-Film Deposition of Cesium Copper Halides with Bright Blue Photoluminescence](#) 

Author(s): Paz Sebastia-Luna, Javier Navarro-Alapont, Michele Sessolo, Francisco Palazon, Henk J. Bolink

Published in: Chemistry of Materials, Issue 31/24, 2019, Page(s) 10205-10210, ISSN 0897-4756

Publisher: American Chemical Society

DOI: 10.1021/acs.chemmater.9b03898

[Single-Source Vacuum Deposition of Mechanothesized Inorganic Halide Perovskites](#) 

Author(s): Yousra El Ajjouri, Francisco Palazon, Michele Sessolo, Henk J. Bolink

Published in: Chemistry of Materials, Issue 30/21, 2018, Page(s) 7423-7427, ISSN 0897-4756

Publisher: American Chemical Society

DOI: 10.1021/acs.chemmater.8b03352

[Mechanochemical synthesis of inorganic halide perovskites: evolution of phase-purity, morphology, and photoluminescence](#) 

Author(s): Francisco Palazon, Yousra El Ajjouri, Paz Sebastia-Luna, Simone Lauciello, Liberato Manna, Henk J. Bolink

Published in: Journal of Materials Chemistry C, Issue 7/37, 2019, Page(s) 11406-11410, ISSN 2050-7534

Publisher: Royal Society of Chemistry

DOI: 10.1039/C9TC03778K

[Making by Grinding: Mechanochemistry Boosts the Development of Halide Perovskites and Other Multinary Metal Halides](#) 

Author(s): Francisco Palazon, Yousra El Ajjouri, Henk J. Bolink

Published in: Advanced Energy Materials, Issue 10/13, 2020, Page(s) 1902499, ISSN 1614-6832

Publisher: Wiley-VCH Verlag

DOI: 10.1002/aenm.201902499

[Efficient Photo- and Electroluminescence by Trap States Passivation in Vacuum-Deposited Hybrid Perovskite Thin Films](#) 

Author(s): Benedikt Dänekamp, Nikolaos Droseros, Francisco Palazon, Michele Sessolo, Natalie Banerji, Henk J. Bolink

Published in: ACS Applied Materials & Interfaces, Issue 10/42, 2018, Page(s) 36187-36193, ISSN 1944-8244

Publisher: American Chemical Society

DOI: 10.1021/acsami.8b13100

[Effects of Oxygen Plasma on the Chemical, Light-Emitting, and Electrical-Transport Properties of Inorganic and Hybrid Lead Bromide Perovskite Nanocrystal Films](#) 

Author(s): Francisco Palazon, Fang Chen, Quinten A. Akkerman, Muhammad Imran, Roman Krahne, Liberato Manna

Published in: ACS Applied Nano Materials, Issue 1/10, 2018, Page(s) 5396-5400, ISSN 2574-0970

Publisher: ACS

DOI: 10.1021/acsanm.8b01424

[Molecular Iodine for a General Synthesis of Binary and Ternary Inorganic and Hybrid Organic-Inorganic Iodide Nanocrystals](#) 

Author(s): Quinten A. Akkerman, Laura Martínez-Sarti, Luca Goldoni, Muhammad Imran, Dmitry Baranov, Henk J. Bolink, Francisco Palazon, Liberato Manna

Published in: Chemistry of Materials, Issue 30/19, 2018, Page(s) 6915-6921, ISSN 0897-4756

Publisher: American Chemical Society

DOI: 10.1021/acs.chemmater.8b03295

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Permalink: <https://cordis.europa.eu/project/id/747599/results>

