

HORIZON
2020

Molecular 'Click-tronics': Surface-based synthesis of single-molecule electronic components

Results

Project Information

MOLCLICK

Grant agreement ID: 657247

DOI

[10.3030/657247](https://doi.org/10.3030/657247) 

Project closed

EC signature date

27 April 2015

Start date

1 October 2015

End date

30 September 2018

Funded under

EXCELLENT SCIENCE - Marie Skłodowska-Curie Actions

Total cost

€ 246 668,40

EU contribution

€ 246 668,40

Coordinated by

UNIVERSITE DE RENNES I



France

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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 (7)

[Extreme Conductance Suppression in Molecular Siloxanes](#)

Author(s): Haixing Li, Marc H. Garner, Timothy A. Su, Anders Jensen, Michael S. Inkpen, Michael L. Steigerwald, Latha Venkataraman, Gemma C. Solomon, Colin Nuckolls

Published in: Journal of the American Chemical Society, Issue 139/30, 2017, Page(s) 10212-10215, ISSN 0002-7863

Publisher: American Chemical Society

DOI: 10.1021/jacs.7b05599

[Insulated molecular wires: inhibiting orthogonal contacts in metal complex based molecular junctions](#)

Author(s): Oday A. Al-Owaedi, Sören Bock, David C. Milan, Marie-Christine Oerthel, Michael S. Inkpen, Dmitry S. Yufit, Alexandre N. Sobolev, Nicholas J. Long, Tim Albrecht, Simon J. Higgins, Martin R. Bryce, Richard J. Nichols, Colin J. Lambert, Paul J. Low

Published in: Nanoscale, Issue 9/28, 2017, Page(s) 9902-9912, ISSN 2040-3364

Publisher: Royal Society of Chemistry

DOI: 10.1039/C7NR01829K

[Silver Makes Better Electrical Contacts to Thiol-Terminated Silanes than Gold](#)

Author(s): Haixing Li, Timothy A. Su, María Camarasa-Gómez, Daniel Hernangómez-Pérez, Simon E. Henn, Vladislav Pokorný, Caravaggio D. Caniglia, Michael S. Inkpen, Richard Korytár, Michael L. Steigerwald, Colin Nuckolls, Ferdinand Evers, Latha Venkataraman

Published in: Angewandte Chemie International Edition, Issue 56/45, 2017, Page(s) 14145-14148, ISSN 1433-7851

Publisher: John Wiley & Sons Ltd.

DOI: 10.1002/anie.201708524

[High-Vacuum Deposition of Biferrocene Thin Films on Room-Temperature Substrates](#)

Author(s): Roland Leber, Lucy E. Wilson, Peter Robaschik, Michael S. Inkpen, David J. Payne, Nicholas J. Long, Tim Albrecht, Cyrus F. Hirjibehedin, Sandrine Heutz

Published in: Chemistry of Materials, Issue 29/20, 2017, Page(s) 8663-8669, ISSN 0897-4756

Publisher: American Chemical Society

DOI: 10.1021/acs.chemmater.7b02614

[In Situ Formation of N-Heterocyclic Carbene-Bound Single-Molecule Junctions](#)

Author(s): Evan A. Doud, Michael S. Inkpen, Giacomo Lovat, Enrique Montes, Daniel W. Paley, Michael L. Steigerwald, Héctor Vázquez, Latha Venkataraman, Xavier Roy

Published in: Journal of the American Chemical Society, Issue 140/28, 2018, Page(s) 8944-8949, ISSN 0002-7863

Publisher: American Chemical Society

DOI: 10.1021/jacs.8b05184

[Determination of the structure and geometry of N-heterocyclic carbenes on Au\(111\) using high-resolution spectroscopy](#)

Author(s): Giacomo Lovat, Evan A. Doud, Deyu Lu, Gregor Kladnik, Michael S. Inkpen, Michael L. Steigerwald, Dean Cvetko, Mark S. Hybertsen, Alberto Morgante, Xavier Roy, Latha Venkataraman

Published in: Chemical Science, 2019, ISSN 2041-6520

Publisher: Royal Society of Chemistry

DOI: 10.1039/C8SC03502D

[Reversible on-surface wiring of resistive circuits](#)

Author(s): Michael S. Inkpen, Yann R. Leroux, Philippe Hapiot, Luis M. Campos, Latha Venkataraman

Published in: Chem. Sci., 2017, ISSN 2041-6520

Publisher: Royal Society of Chemistry

DOI: 10.1039/C7SC00599G

Datasets

Datasets via OpenAIRE (1)



["Reversible On-Surface Wiring Of Resistive Circuits", Raw Data Used In Figures.](#)

Author(s): Inkpen, Michael S.; Leroux, Yann R.; Hapiot, Philippe; Campos, Luis M.; Venkataraman, L

Published in: Zenodo

Last update: 15 August 2022

Permalink: <https://cordis.europa.eu/project/id/657247/results>

European Union, 2025