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Waste Heat to Electrical Energy via Sustainable Organic Thermoelectric Devices

Results

Project Information

H2ESOT

Grant agreement ID: 308768

[Project website](#) 

Project closed

Start date

1 January 2013

End date

31 December 2015

Funded under

Specific Programme "Cooperation": Energy

Total cost

€ 1 674 053,00

EU contribution

€ 1 265 842,35

Coordinated by

THE UNIVERSITY OF
NOTTINGHAM

 United Kingdom

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Publications

Publications via OpenAIRE (15)



[Organic thermoelectric materials: new opportunities](#) 

Author(s): Casian, A.I.; Sanduleac, I.I.

Published in: Institute of Thermoelectricity, Academy of Sciences of the Ukraine 1607-8829 2013

[Thermoelectric Properties of Tetrathiotetracene Iodide Crystals: Modeling and Experiment](#) 

Author(s): Anatolie Casian; Ionel Sanduleac

Published in: Springer Science and Business Media LLC 0361-5235 2014

Permanent ID: Digital Object Identifier:10.1007/s11664-014-3105-6; Microsoft Academic Graph Identifier:2042768138

[Thermoelectric Properties of Nanostructured Tetrathiotetracene Iodide Crystals: 3D Modeling](#) 

Author(s): Anatolie Casian; Ionel Sanduleac

Published in: Elsevier BV 2214-7853 2015

Permanent ID: Digital Object Identifier:10.1016/j.matpr.2015.05.069; Microsoft Academic Graph Identifier:605401561

[Modeling of thermoelectric properties of n – type organic crystals of TTT\(TCNQ\)₂: 3D physical model](#) 

Author(s): Sanduleac, I.; Casian, A.

Published in: Springer 2015

[Anionic sigmatropic-electrocyclic-Chugaev cascades: accessing 12-aryl-5-\(methylthiocarbonylthio\)tetracenes and a related anthra\[2,3-b\]thiophene](#) 

Author(s): L. Burroughs; J. Ritchie; M. Ngwenya; D. Khan; W. Lewis; S. Woodward

Published in: Beilstein Institut Beilstein Journal of Organic Chemistry, Vol 11, Iss 1, Pp 273-279 (2015) 2015

Permanent ID: Digital Object Identifier:10.3762/bjoc.11.31; PubMed ID:25815080; PubMed Central ID:PMC4362017; Microsoft Academic Graph Identifier:1992827731

[Tetrathiotetracene thin film morphology and electrical properties](#) 

Author(s): K. Pudzs; A. Vembris; J. Busenbergs; M. Rutkis; S. Woodward

Published in: Elsevier BV Thin Solid Films 2016

Permanent ID: Digital Object Identifier:10.1016/j.tsf.2015.11.087; Microsoft Academic Graph Identifier:2195416144

[ChemInform Abstract: One-Pot Cannizzaro Cascade Synthesis of ortho-Fused Cycloocta-2,5-dien-1-ones from 2-Bromo\(hetero\)aryl Aldehydes.](#) 

Author(s): Laurence Burroughs; Lee Eccleshare; John Ritchie; Omkar Kulkarni; Barry Lygo; Simon Woodward; William Lewis

Published in: Wiley Angewandte Chemie - International Edition 2015

Permanent ID: Digital Object Identifier:10.1002/chin.201601072; Digital Object Identifier:10.1002/anie.201505347; Digital Object Identifier:10.1002/ange.201505347; PubMed ID:26230528; PubMed Central ID:PMC4581465; Microsoft Academic Graph Identifier:2949173376; Microsoft Academic Graph Identifier:2123105927

[Understanding anionic Chugaev elimination in pericyclic tetracene formation](#)

Author(s): Laurence Burroughs; John Ritchie; Simon Woodward

Published in: Elsevier BV0040-4020 2016

Permanent ID: Digital Object Identifier:10.1016/j.tet.2016.02.025; Microsoft Academic Graph Identifier:2271880332

[Low-cost and sustainable organic thermoelectrics based on low-dimensional molecular metals](#)

Author(s): Huewe, Florian; Steeger, Alexander; Kostova, Kalina; Burroughs, Laurence; Bauer, Irene; Strohriegl, Vladimir; Woodward, Simon; Pflaum, Jens

Published in: Wiley 2017

[Energy exchange between phononic and electronic subsystems governing the nonlinear conduction in DCNQI₂Cu](#)

Author(s): Florian Huewe; Alexander Steeger; Irene Bauer; Steffen Doerrich; Peter Strohriegl; Jens Pflaum

Published in: American Physical Society (APS)Physical Review B - Condensed Matter and Materials Physics 2015

Permanent ID: Digital Object Identifier:10.1103/physrevb.92.155107; Digital Object Identifier:10.48550/arxiv.1505.04907; arXiv:http://arxiv.org/abs/1505.04907; Microsoft Academic Graph Identifier:2342881352

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