

[Grotrup Jorit](#)

Publicații peste hotare - [11](#).

Publicații indexate în SCOPUS - [10](#). Teze/Rezumate în culegeri - [1](#).

2019 - 1

Nanosensors based on individual hibrid structures and their application in gas sensing at room temperature

Postica Vasile¹, Grotrup Jorit², Adelung Rainer², Shontya Viktor¹, Lupan Oleg¹²

¹ Technical University of Moldova,

² University of Kiel

Electronics, Communications and Computing

Nr. 3(49) / 2005 / ISSN 1024-7696 / ISSNe 2587-4322

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2018 - 1

Individual Bi2O3-functionalized ZnO microwire for hydrogen gas detection

Postica Vasile¹, Lupan Oleg¹, Grotrup Jorit², Adelung Rainer²

¹ Technical University of Moldova,

² Institute for Material Science, Christian-Albrechts-University of Kiel

NATO Science for Peace and Security Series B: Physics and Biophysics

Nr. 1(2) / 2010 / ISSN 1857-3843

Disponibil online 18 July, 2021. Descarcări-0. Vizualizări-425

2017 - 8

Enhanced UV and ethanol vapour sensing of a single 3-D ZnO tetrapod alloyed with Fe2O3 nanoparticles

Lupan Oleg¹², Postica Vasile², Grotrup Jorit³, Mishra Abhishek Kumar⁴⁵, De Leeuw Nora H.⁶, Adelung Rainer³

¹ Christian-Albrechts University of Kiel,

² Technical University of Moldova,

³ University of Kiel,

⁴ University College London,

⁵ University of Petroleum and Energy Studies (UPES), Bidholi, Dehradun,

⁶ Cardiff University, United Kingdom

Sensors and Actuators, B: Chemical

Nr. 245 / 2017 / ISSN - / ISSNe 0925-4005

Disponibil online 13 February, 2023. Descarcări-0. Vizualizări-193

Hybridization of zinc oxide tetrapods for selective gas sensing applications

Lupan Oleg¹², Postica Vasile³, Grotrup Jorit², Mishra Abhishek Kumar³⁴, De Leeuw Nora H.³⁵, Carreira José F.C.⁶, Rodrigues Joana L.⁶, Ben Sedrine N.⁶, Correia Maria Rosário P.⁶, Monteiro T.⁶, Crețu Vasiliu¹, Tiginyanu Ion¹, Smazna Daria², Mishra Yogendra Kumar², Adelung Rainer²

¹ Technical University of Moldova,

² Institute for Material Science, Christian-Albrechts-University of Kiel,

³ University College London,

⁴ University of Petroleum and Energy Studies (UPES), Bidholi, Dehradun,

⁵ School of Chemistry, Cardiff University,

⁶ University of Aveiro

ACS Applied Materials and Interfaces

Vol. 9, / 2017 / ISSN - / ISSNe 1944-8244

Disponibil online 15 December, 2017. Descarcări-1. Vizualizări-1250

Morphology dependent UV photoresponse of Sn-doped ZnO microstructures

Postica Vasile¹, Hoppe Mathias², Grotrrup Jorit², Hayes Patrick², Robisch Volker², Smazna Daria², Adelung Rainer², Viana Bruno³, Aschehoug Patrick³, Pauporte Thierry³, Lupan Oleg^{1,2,3}

¹ Technical University of Moldova,

² Institute for Material Science, Christian-Albrechts-University of Kiel,

³ PSL Research University, Chimie ParisTech - CNRS, Institut de Recherche de Chimie Paris

Solid State Sciences

Vol. 71, / 2017 / ISSN 1293-2558 / ISSNe 1873-3085

Disponibil online 8 February, 2018. Descarcări-1. Vizualizări-840

Multifunctional Materials: A Case Study of the Effects of Metal Doping on ZnO Tetrapods with Bismuth and Tin Oxides

Postica Vasile¹, Grotrrup Jorit², Adelung Rainer², Lupan Oleg^{2,1}, Mishra Abhishek Kumar³, De Leeuw Nora H.^{4,5}, Ababii Nicolai¹, Carreira José F.C.⁶, Rodrigues Joana L.⁶, Ben Sedrine N.⁶, Correia Maria Rosário P.⁶, Monteiro T.⁶, Shontya Viktor¹, Mishra Yogendra Kumar²

¹ Technical University of Moldova,

² University of Kiel,

³ University of Petroleum and Energy Studies (UPES), Bidholi, Dehradun,

⁴ University College London,

⁵ Cardiff University, United Kingdom,

⁶ University of Aveiro

Advanced Functional Materials

Vol. 27, / 2017 / ISSN 1616-301X

Disponibil online 17 February, 2023. Descarcări-0. Vizualizări-214

Porous ceramics based on hybrid inorganic tetrapodal networks for efficient photocatalysis and water purification

Grotrrup Jorit¹, Schutt Fabian¹, Smazna Daria¹, Lupan Oleg^{1,2}, Adelung Rainer¹, Mishra Yogendra Kumar¹

¹ Institute for Material Science, Christian-Albrechts-University of Kiel,

² Technical University of Moldova

Ceramics International

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Single nanowire nanosensors: Fabrication and detailed studies

Lupan Oleg¹, Postica Vasile¹, Lazari Eugeniu¹, Grotrrup Jorit², Kaidas Victor², Adelung Rainer²

¹ Technical University of Moldova,

² Institute for Material Science, Christian-Albrechts-University of Kiel

IEEE International Conference on Nanomaterials: Applications and Properties NAP 2017

Nr. 3(58) / 2015 / ISSN 1875-0666

Disponibil online 14 June, 2022. Descarcări-0. Vizualizări-343

Size-dependent UV and gas sensing response of individual Fe₂O₃-ZnO:Fe micro- and nanowire based devices

Grottrup Jorit¹, Postica Vasile², Ababii Nicolai², Lupan Oleg^{1,2}, Zamponi Christiane¹, Meyners Dirk¹, Mishra Yogendra Kumar¹, Shontya Viktor², Tiginyanu Ion², Adelung Rainer¹

¹ Institute for Material Science, Christian-Albrechts-University of Kiel,

² Technical University of Moldova

Journal of Alloys and Compounds

Vol. 701, / 2017 / ISSN 0925-8388

Disponibil online 16 December, 2017. Descarcări-0. Vizualizări-911

UV detection properties of hybrid ZnO tetrapod 3-D networks

Grottrup Jorit¹, Postica Vasile², Smazna Daria¹, Hoppe Mathias¹, Kaidas Victor¹, Mishra Yogendra Kumar¹, Lupan Oleg^{1,2}, Adelung Rainer¹

¹ Institute for Material Science, Christian-Albrechts-University of Kiel,

² Technical University of Moldova

Vacuum

Nr. 146 / 2017 / ISSN 0042-207X / ISSN_e 1879-2715

Disponibil online 10 December, 2017. Descarcări-0. Vizualizări-876

2016 - 2

Strong light scattering and broadband (UV to IR) photoabsorption in stretchable 3D hybrid architectures based on Aerographite decorated by ZnO nanocrystallites

Tiginyanu Ion^{1,2}, Ghimpu Lidia^{1,2}, Grottrup Jorit³, Postolache Vitalie^{1,2}, Mecklenburg Matthias⁴, Stevens-Kalceff Marion A.⁵, Ursaki Veaceslav^{1,2}, Payami Nader⁶, Feidenhansl Robert K.⁶, Schulte K.⁴, Adelung Rainer³, Mishra Yogendra Kumar³

¹ Technical University of Moldova,

² Institute of the Electronic Engineering and Nanotechnologies "D. Ghitu" of the Academy of Sciences of Moldova,

³ Institute for Material Science, Christian-Albrechts-University of Kiel,

⁴ Hamburg University of Technology,

⁵ University of New South Wales,

⁶ University of Copenhagen

Scientific Reports

Vol. 6, / 2016 / ISSN 2045-2322

Disponibil online 20 March, 2018. Descarcări-1. Vizualizări-893

Three-dimensional flexible ceramics based on interconnected network of highly porous pure and metal alloyed ZnO tetrapods

Grottrup Jorit¹, Paulowicz Ingo¹, Schuchardt Arnim¹, Kaidas Victor¹, Kaps Soren¹, Lupan Oleg^{1,2}, Adelung Rainer¹, Mishra Yogendra Kumar¹

¹ Institute for Material Science, Christian-Albrechts-University of Kiel,

² Technical University of Moldova

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