

Bejenari Igor

Articole în reviste din RM - **1**. Publicații peste hotare - **14**.
Publicații indexate în SCOPUS - **10**. Teze/Rezumate în culegeri - **1**.

Self-Heating Characterization and Thermal Resistance Modeling in Multitube CNTFETs

Pacheco-Sanchez Anibal¹, Bejenari Igor², Schroter Michael³

¹ Universitat Autònoma de Barcelona,

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

³ Technische Universitat Dresden, Dresden

IEEE Transactions on Electron Devices

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Analytical drain current model for non-ballistic Schottky-Barrier CNTFETs

Bejenari Igor^{1,2}, Schroter Michael^{1,3}, Claus Martin¹

¹ Technische Universitat Dresden, Dresden,

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

³ University of California, San Diego

European Solid-State Device Research Conference

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Analytical Drain Current Model of 1-D Ballistic Schottky-Barrier Transistors

Bejenari Igor^{1,2}, Schroter Michael², Claus Martin²

¹ Institute of the Electronic Engineering and Nanotechnologies "D. Ghitu" of the Academy of Sciences of Moldova,

² Technische Universitat Dresden, Dresden

IEEE Transactions on Electron Devices

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Electron Back Scattering in CNTFETs

Bejenari Igor^{1,2}, Claus Martin¹

¹ Technische Universitat Dresden, Dresden,

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

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Atomistic calculation of the thermoelectric properties of Si nanowires

Bejenari Igor^{1,2}, Kratzer Peter¹

¹ Duisburg - Essen University,

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

Physical Review B - Condensed Matter and Materials Physics

Vol. 90, / 2014 / ISSN 1098-0121 / ISSNe 1550-235X

Disponibil online 6 July, 2023. Descarcări-0. Vizualizări-185

Band gap of a topological insulator nanotube

Bejenari Igor, Kantser Valeriu

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

Moldavian Journal of the Physical Sciences

Nr. 2(10) / 2011 / ISSN 1810-648X / ISSN_e 2537-6365

Disponibil online 14 December, 2013. Descarcări-5. Vizualizări-1049

Combination of electric field effect and dimensional confinement for nanowire thermoelectric properties

Bejenari Igor, Kantser Valeriu

Institute of the Electronic Engineering and Nanotechnologies "D. Ghitu"

Materials Science and Condensed Matter Physics

Nr. 16(29) / 2012 / ISSN 1857-0054

Disponibil online 21 April, 2021. Descarcări-0. Vizualizări-287

Electric field effect on thermoelectric properties of bismuth telluride square nanowires

Bejenari Igor^{1,2}, Kantser Valeriu¹, Balandin Alexander A.²

¹ Institute of Electronic Engineering and Industrial Technologies, Academy of Sciences of Moldova,

² University of California, Riverside

Journal of Optoelectronics and Advanced Materials

Vol. 12, / 2010 / ISSN 1454-4164

Disponibil online 27 February, 2024. Descarcări-0. Vizualizări-77

Thermoelectric properties of electrically gated bismuth telluride nanowires

Bejenari Igor^{1,2}, Kantser Valeriu², Balandin Alexander A.¹

¹ University of California, Riverside,

² Institute of Electronic Engineering and Industrial Technologies, Academy of Sciences of Moldova

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Disponibil online 25 June, 2023. Descarcări-0. Vizualizări-209

Ultraviolet Raman microscopy of single and multilayer graphene

Calizo Irene G.^{1,2}, Bejenari Igor^{1,3}, Rahman uhammad Mustafizur Mizanur Hafizur¹, Liu Guanxiong¹, Balandin Alexander A.¹

¹ University of California, Riverside,

² National Institute of Standards and Technology,

³ Institute of Electronic Engineering and Industrial Technologies, Academy of Sciences of Moldova

Journal of Applied Physics

Vol. 106, / 2009 / ISSN 0021-8979 / ISSN_e 1089-7550

Disponibil online 6 July, 2023. Descarcări-3. Vizualizări-201

Size quantization and thermoelectric properties of bismuth telluride nanowires

Bejenari Igor, Kantser Valeriu

Institute of Electronic Engineering and Industrial Technologies, Academy of Sciences of Moldova

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Nr. 1(3) / 2017 / ISSN 1857-436X / ISSNNe 2537-6179

Disponibil online 11 December, 2023. Descarcări-0. Vizualizări-143

Thermoelectric properties of bismuth telluride nanowires in the constant relaxation-time approximation

Bejenari Igor^{1,2}, Kantser Valeriu¹

¹ Institute of Electronic Engineering and Industrial Technologies, Academy of Sciences of Moldova,

² Joint Institute of Nuclear Research

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Cylindrical thermoelectric microwires under radial electric field effect

Kantser Valeriu¹, Dashevsky Zinovi², Meglei Dragoș¹, Bejenari Igor¹

¹ Institute of Applied Physics, Academy of Sciences of Moldova,

² Ben-Gurion University of the Negev

Proceedings of the International Semiconductor Conference CAS

Nr. 6(306) / 2017 / ISSN 2587-4365 / ISSNNe 2587-4373

Disponibil online 22 November, 2023. Descarcări-0. Vizualizări-150

Anisotropic size quantization and semimetal-semiconductor phase transition in bismuth-like cylindrical nanowires

Bejenari Igor¹, Kantser Valeriu^{1,2}, Myronov Maksym², Mironov O.², Leadley David R.²

¹ Academy of Sciences of Moldova,

² University of Warwick

Semiconductor Science and Technology

Vol. 19, / 2004 / ISSN 0268-1242

Disponibil online 1 September, 2023. Descarcări-0. Vizualizări-158

Anisotropy induced size quantization enhancement in bismuth like cylindrical nanowires

Bejenari Igor, Gitsu Dumitru, Kantser Valeriu, Myronov Maksym, Mironov O.

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Disponibil online 29 November, 2023. Descarcări-1. Vizualizări-114

Interface effects of strained semiconductor heterostructure in longitudinal magnetic field

Kantser Valeriu, Bejenari Igor, Arapan Sergiu

Institute of Applied Physics, Academy of Sciences of Moldova

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