

Igor Boyko

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

15
papers

29
citations

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28
ext. papers

45
ext. citations

0.9
avg, IF

2.23
L-index

#	Paper	IF	Citations
15	Optimization of quantum cascade laser operation by geometric design of cascade active band in open and closed models. <i>Condensed Matter Physics</i> , 2013 , 16, 33701	1.3	6
14	On the active conductivity of a three-barrier resonant-tunneling structure and optimization of quantum cascade laser operation. <i>Semiconductors</i> , 2012 , 46, 1304-1309	0.7	4
13	Spectrum and normalized modes of acoustic phonons in multilayer nitride-based nanostructure. <i>European Physical Journal B</i> , 2020 , 93, 1	1.2	3
12	Quasi-stationary electron states in a multilayered structure in longitudinal electric and transverse magnetic fields. <i>Physics of the Solid State</i> , 2013 , 55, 2182-2189	0.8	3
11	Interaction of electrons with acoustic phonons in AlN/GaN resonant tunnelling nanostructures at different temperatures. <i>Condensed Matter Physics</i> , 2020 , 23, 33708	1.3	3
10	High-Performance Supercomputer Technologies of Simulation of Nanoporous Feedback Systems for Adsorption Gas Purification. <i>Cybernetics and Systems Analysis</i> , 2020 , 56, 835-847	0.7	2
9	Investigation of the electron-acoustic phonon interaction via the deformation and piezoelectric potentials in AlN/GaN resonant tunneling nanostructures. <i>Superlattices and Microstructures</i> , 2021 , 156, 106928	2.8	2
8	Mathematical Modeling of the Acoustic Phonons Spectra Arising in Multilayer Nanostructures 2019 ,		1
7	High-Performance Supercomputer Technologies of Simulation and Identification of Nanoporous Systems with Feedback for n-Component Competitive Adsorption. <i>Cybernetics and Systems Analysis</i> , 2021 , 57, 316-328	0.7	1
6	Substantiation of Parameters of Friction Elements of Bernoulli Grippers With a Cylindrical Nozzle. <i>International Journal of Manufacturing, Materials, and Mechanical Engineering</i> , 2021 , 11, 17-39	0.5	1
5	Theory of the shear acoustic phonons spectrum and their interaction with electrons due to the piezoelectric potential in AlN/GaN nanostructures of plane symmetry. <i>Low Temperature Physics</i> , 2021 , 47, 141-154	0.7	1
4	Acoustic phonons in multilayer nitride-based AlN/GaN resonant tunneling structures. <i>Nano Express</i> , 2020 , 1, 010009	2	
3	A quantum cascade laser in a transverse magnetic field. A model of the open triple-barrier active region. <i>Technical Physics Letters</i> , 2013 , 39, 520-524	0.7	
2	Role of Two-Photon Electronic Transitions in the Formation of Active Dynamic Conductivity in a Three-Barrier Resonance Tunneling Structure with an Applied DC Electric Field. <i>Ukrainian Journal of Physics</i> , 2016 , 61, 66-74	0.4	
1	Tunneling transport in open nitride resonant tunneling structures taking into account the acoustic phonons: An variational approach. <i>Physica B: Condensed Matter</i> , 2022 , 636, 413862	2.8	