

George Alexandru Nemnes

List of Publications by Year in Descending Order

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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.

70
papers

779
citations

14
h-index

25
g-index

71
ext. papers

910
ext. citations

3.5
avg, IF

4.34
L-index

#	Paper	IF	Citations
70	The R-matrix formalism for two-particle scattering problems. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2021 , 425, 127865	2.3	
69	Feature selection procedures for combined density functional theory–Artificial neural network schemes. <i>Physica Scripta</i> , 2021 , 96, 065807	2.6	1
68	Bandgap atomistic calculations on hydrogen-passivated GeSi nanocrystals. <i>Scientific Reports</i> , 2021 , 11, 13582	4.9	1
67	Ground state charge density prediction in C-BN nanoflakes using rotation equivariant feature-free artificial neural networks. <i>Carbon</i> , 2021 , 174, 276-283	10.4	0
66	Investigation of Opto-Electronic Properties and Stability of Mixed-Cation Mixed-Halide Perovskite Materials with Machine-Learning Implementation. <i>Energies</i> , 2021 , 14, 5431	3.1	0
65	SiGe nanocrystals in SiO with high photosensitivity from visible to short-wave infrared. <i>Scientific Reports</i> , 2020 , 10, 3252	4.9	12
64	Prediction of Energy Gaps in Graphene–Hexagonal Boron Nitride Nanoflakes Using Artificial Neural Networks. <i>Springer Series in Materials Science</i> , 2020 , 197-209	0.9	1
63	Reticulated Mesoporous TiO ₂ Scaffold, Fabricated by Spray Coating, for Large-Area Perovskite Solar Cells. <i>Energy Technology</i> , 2020 , 8, 1900922	3.5	12
62	Prediction of Equilibrium Phase, Stability and Stress-Strain Properties in Co-Cr-Fe-Ni-Al High Entropy Alloys Using Artificial Neural Networks. <i>Metals</i> , 2020 , 10, 1569	2.3	3
61	A Ballistic Transport Model for an Artificial Neuron. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900936	1.6	
60	The hysteresis-free behavior of perovskite solar cells from the perspective of the measurement conditions. <i>Journal of Materials Chemistry C</i> , 2019 , 7, 5267-5274	7.1	10
59	Graphene bandgap induced by ferroelectric Pca2 HfO substrates: a first-principles study. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 15001-15006	3.6	10
58	Gap Prediction in Hybrid Graphene-Hexagonal Boron Nitride Nanoflakes Using Artificial Neural Networks. <i>Journal of Nanomaterials</i> , 2019 , 2019, 1-8	3.2	6
57	Reconfigurable quantum logic gates using Rashba controlled spin polarized currents. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019 , 111, 13-19	3	3
56	Electric and thermoelectric properties of graphene bilayers with extrinsic impurities under applied electric field. <i>Physica B: Condensed Matter</i> , 2019 , 561, 9-15	2.8	3
55	Ge nanoparticles in SiO for near infrared photodetectors with high performance. <i>Scientific Reports</i> , 2019 , 9, 10286	4.9	14
54	Modelling J _V hysteresis in perovskite solar cells induced by voltage poling. <i>Physica Scripta</i> , 2019 , 94, 125809	2.6	4

53	Fabrication and characterization of Si Ge nanocrystals in as-grown and annealed structures: a comparative study. <i>Beilstein Journal of Nanotechnology</i> , 2019 , 10, 1873-1882	3	3
52	Enhanced photoconductivity of SiGe nanocrystals in SiO ₂ driven by mild annealing. <i>Applied Surface Science</i> , 2019 , 469, 870-878	6.7	11
51	How measurement protocols influence the dynamic J-V characteristics of perovskite solar cells: Theory and experiment. <i>Solar Energy</i> , 2018 , 173, 976-983	6.8	44
50	Ballistic transport in graphene Y-junctions in transverse electric field. <i>Nanotechnology</i> , 2018 , 29, 3552023,4	3.4	4
49	Electric field effect in boron and nitrogen doped graphene bilayers. <i>Computational Materials Science</i> , 2018 , 155, 175-179	3.2	11
48	The Influence of the Relaxation Time on the Dynamic Hysteresis in Perovskite Solar Cells. <i>EPJ Web of Conferences</i> , 2018 , 173, 03017	0.3	3
47	Atomistic Simulations of Methylammonium Lead Halide Layers on PbTiO ₃ (001) Surfaces. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 9096-9109	3.8	9
46	Normal and Inverted Hysteresis in Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11207811214	3.7	14
45	Optimization of the structural configuration of ICBA/P3HT photovoltaic cells. <i>Applied Surface Science</i> , 2017 , 424, 264-268	6.7	6
44	Electronic and thermal conduction properties of halogenated porous graphene nanoribbons. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4435-4441	7.1	12
43	Helical graphite metamaterials for intense and locally controllable magnetic fields. <i>RSC Advances</i> , 2017 , 7, 49041-49047	3.7	3
42	Reversal of Thermoelectric Current in Tubular Nanowires. <i>Physical Review Letters</i> , 2017 , 119, 036804	7.4	20
41	Dynamic electrical behavior of halide perovskite based solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 159, 197-203	6.4	26
40	Transparent boundary conditions for time-dependent electron transport in the R-matrix method with applications to nanostructured interfaces. <i>Computer Physics Communications</i> , 2016 , 208, 109-116	4.2	2
39	The application of the fractional exclusion statistics to the BCS theory: A redefinition of the quasiparticle energies. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 458, 276-286	3.3	1
38	Conductance oscillations of core-shell nanowires in transversal magnetic fields. <i>Physical Review B</i> , 2016 , 93,	3.3	11
37	Adiabatic Edge Channel Transport in a Nanowire Quantum Point Contact Register. <i>Nano Letters</i> , 2016 , 16, 4569-75	11.5	23
36	A drift-diffusion model based on the fractional exclusion statistics. <i>Journal of Physics: Conference Series</i> , 2016 , 738, 012006	0.3	

35	Molecular dynamics of halogenated graphene - hexagonal boron nitride nanoribbons. <i>Journal of Physics: Conference Series</i> , 2016 , 738, 012027	0.3	1
34	Ballistic electron transport in wrinkled superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 81, 131-135	3	1
33	Optimization of halide perovskite solar cells based on nanocolumnar ZnO. <i>Solar Energy Materials and Solar Cells</i> , 2016 , 158, 202-208	6.4	10
32	Ab Initio Investigations of Thermoelectric Effects in Graphene Boron Nitride Nanoribbons. <i>EPJ Web of Conferences</i> , 2016 , 108, 02045	0.3	1
31	Iodine Migration and Degradation of Perovskite Solar Cells Enhanced by Metallic Electrodes. <i>Journal of Physical Chemistry Letters</i> , 2016 , 7, 5168-5175	6.4	157
30	The role of the chemical potential in the BCS theory. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2016 , 464, 74-82	3.3	8
29	Charge localization effects and transport in dendritic nanostructures for photovoltaic applications. <i>Applied Surface Science</i> , 2015 , 352, 158-162	6.7	2
28	Ab initio vibrational and thermal properties of carbon allotropes: Polycyclic and rectangular networks. <i>Computational Materials Science</i> , 2015 , 109, 14-19	3.2	5
27	Electron transport properties of fulgide-based photochromic switches. <i>RSC Advances</i> , 2015 , 5, 26438-26442	3.7	6
26	Band alignment and charge transfer in rutile-TiO ₂ /CH ₃ NH ₃ PbI ₃ -xCl _x interfaces. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 30417-23	3.6	12
25	Collective Behavior of Molecular Dipoles in CH ₃ NH ₃ PbI ₃ . <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19674-19680	3.8	4
24	Transport in ferrocene single molecules for terahertz applications. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18478-82	3.6	7
23	Electrical properties related to the structure of GeSi nanostructured films. <i>Physica Status Solidi (B): Basic Research</i> , 2014 , 251, 1340-1346	1.3	12
22	Effects of graded distribution of scattering centers on ballistic transport. <i>Journal of Applied Physics</i> , 2014 , 116, 124316	2.5	2
21	Spin filtering in graphene nanoribbons with Mn-doped boron nitride inclusions. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2013 , 178, 1347-1351	3.1	19
20	Equivalence between fractional exclusion statistics and self-consistent mean-field theory in interacting-particle systems in any number of dimensions. <i>Physical Review E</i> , 2013 , 88, 042150	2.4	3
19	Ab initio investigation of spin-filter effects in GaN nanowires with transitional metal impurities. <i>European Physical Journal Plus</i> , 2013 , 128, 1	3.1	
18	Annealing temperature effect on structure and electrical properties of films formed of Ge nanoparticles in SiO ₂ . <i>Applied Surface Science</i> , 2013 , 285, 175-179	6.7	19

17	Spin-Filtering Effects in Wurtzite and Graphite-Like AlN Nanowires with Mn Impurities. <i>Journal of Nanomaterials</i> , 2013 , 2013, 1-5	3.2	4
16	Enhanced thermopower of GaN nanowires with transitional metal impurities. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1543, 125-129		1
15	Fractional exclusion statistics in systems with localized states. <i>Journal of Physics: Conference Series</i> , 2013 , 410, 012120	0.3	3
14	Thermopower of atomic-sized wurtzite AlN wires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 1092-1094	3	5
13	Magnetic behavior and clustering effects in Mn-doped boron nitride sheets. <i>Journal of Physics Condensed Matter</i> , 2012 , 24, 326003, 1-7	1.8	4
12	Spin Current Switching and Spin-Filtering Effects in Mn-Doped Boron Nitride Nanoribbons. <i>Journal of Nanomaterials</i> , 2012 , 2012, 1-5	3.2	10
11	Reduction of ballistic spin scattering in a spin-FET using stray electric fields. <i>Journal of Physics: Conference Series</i> , 2012 , 338, 012012	0.3	6
10	Ab-initio investigation of point-like defects in AlN nanowires. <i>Journal of Physics: Conference Series</i> , 2012 , 338, 012014	0.3	
9	Stress-induced traps in multilayered structures. <i>Journal of Applied Physics</i> , 2011 , 109, 013717	2.5	27
8	Ab initio vibrational and thermal properties of AlN nanowires under axial stress. <i>Computational Materials Science</i> , 2011 , 50, 2955-2959	3.2	10
7	Stochastic simulations for the time evolution of systems which obey generalized statistics: fractional exclusion statistics and Gentile statistics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010 , 2010, P09011	1.9	5
6	Thermo-electrical properties of nanostructured ballistic nanowires in the R-matrix formalism using the Implicitly Restarted Arnoldi Method. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2010 , 42, 1613-1617	3	14
5	Self-consistent potentials and linear regime conductance of cylindrical nanowire transistors in the R-matrix formalism. <i>Journal of Applied Physics</i> , 2009 , 106, 113714	2.5	11
4	Spin-box algorithm for low temperature dynamics of short range disordered Ising spin systems. <i>Computer Physics Communications</i> , 2009 , 180, 1098-1103	4.2	1
3	Nonlinear I-V characteristics of nanotransistors in the Landauer-Büttiker formalism. <i>Journal of Applied Physics</i> , 2005 , 98, 084308	2.5	23
2	Nano-transistors in the Landauer-Büttiker formalism. <i>Journal of Applied Physics</i> , 2004 , 96, 596-604	2.5	30
1	Coherent leakage current in mesoscopic MIS-type capacitors. <i>Materials Science in Semiconductor Processing</i> , 2003 , 6, 129-135	4.3	