

George Alexandru Nemnes

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6463351/george-alexandru-nemnes-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

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	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
69	Normal and Inverted Hysteresis in Perovskite Solar Cells. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 11207-11214	3.7	114
68	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
67	Collective Behavior of Molecular Dipoles in CH ₃ NH ₃ PbI ₃ . <i>Journal of Physical Chemistry C</i> , 2015 , 119, 19634-19640	3.8	40
66	Nano-transistors in the Landauer-Büttiker formalism. <i>Journal of Applied Physics</i> , 2004 , 96, 596-604	2.5	30
65	Stress-induced traps in multilayered structures. <i>Journal of Applied Physics</i> , 2011 , 109, 013717	2.5	27
64	Dynamic electrical behavior of halide perovskite based solar cells. <i>Solar Energy Materials and Solar Cells</i> , 2017 , 159, 197-203	6.4	26
63	Adiabatic Edge Channel Transport in a Nanowire Quantum Point Contact Register. <i>Nano Letters</i> , 2016 , 16, 4569-75	11.5	23
62	Nonlinear I-V characteristics of nanotransistors in the Landauer-Büttiker formalism. <i>Journal of Applied Physics</i> , 2005 , 98, 084308	2.5	23
61	Reversal of Thermoelectric Current in Tubular Nanowires. <i>Physical Review Letters</i> , 2017 , 119, 036804	7.4	20
60	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
59	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
58	Ge nanoparticles in SiO for near infrared photodetectors with high performance. <i>Scientific Reports</i> , 2019 , 9, 10286	4.9	14
57	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
56	Electronic and thermal conduction properties of halogenated porous graphene nanoribbons. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 4435-4441	7.1	12
55	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
54	SiGe nanocrystals in SiO with high photosensitivity from visible to short-wave infrared. <i>Scientific Reports</i> , 2020 , 10, 3252	4.9	12

53	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
52	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
51	Conductance oscillations of core-shell nanowires in transversal magnetic fields. <i>Physical Review B</i> , 2016 , 93,	3.3	11
50	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
49	Enhanced photoconductivity of SiGe nanocrystals in SiO ₂ driven by mild annealing. <i>Applied Surface Science</i> , 2019 , 469, 870-878	6.7	11
48	Electric field effect in boron and nitrogen doped graphene bilayers. <i>Computational Materials Science</i> , 2018 , 155, 175-179	3.2	11
47	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
46	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
45	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
44	Ab initio vibrational and thermal properties of AlN nanowires under axial stress. <i>Computational Materials Science</i> , 2011 , 50, 2955-2959	3.2	10
43	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
42	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
41	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
40	Transport in ferrocene single molecules for terahertz applications. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 18478-82	3.6	7
39	Optimization of the structural configuration of ICBA/P3HT photovoltaic cells. <i>Applied Surface Science</i> , 2017 , 424, 264-268	6.7	6
38	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
37	Electron transport properties of fulgide-based photochromic switches. <i>RSC Advances</i> , 2015 , 5, 26438-26442	3.7	6
36	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

35	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
34	Thermopower of atomic-sized wurtzite AlN wires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2012 , 44, 1092-1094	3	5
33	Stochastic simulations for the time evolution of systems which obey generalized statistics: fractional exclusion statistics and Gentile's statistics. <i>Journal of Statistical Mechanics: Theory and Experiment</i> , 2010 , 2010, P09011	1.9	5
32	Ballistic transport in graphene Y-junctions in transverse electric field. <i>Nanotechnology</i> , 2018 , 29, 355202	3.4	4
31	Modelling J-V hysteresis in perovskite solar cells induced by voltage poling. <i>Physica Scripta</i> , 2019 , 94, 125809	2.6	4
30	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
29	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
28	Helical graphite metamaterials for intense and locally controllable magnetic fields. <i>RSC Advances</i> , 2017 , 7, 49041-49047	3.7	3
27	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
26	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
25	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
24	Fractional exclusion statistics in systems with localized states. <i>Journal of Physics: Conference Series</i> , 2013 , 410, 012120	0.3	3
23	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
22	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
21	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
20	Charge localization effects and transport in dendritic nanostructures for photovoltaic applications. <i>Applied Surface Science</i> , 2015 , 352, 158-162	6.7	2
19	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
18	Effects of graded distribution of scattering centers on ballistic transport. <i>Journal of Applied Physics</i> , 2014 , 116, 124316	2.5	2

17	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
16	Molecular dynamics of halogenated graphene - hexagonal boron nitride nanoribbons. <i>Journal of Physics: Conference Series</i> , 2016 , 738, 012027	0.3	1
15	Ballistic electron transport in wrinkled superlattices. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2016 , 81, 131-135	3	1
14	Enhanced thermopower of GaN nanowires with transitional metal impurities. <i>Materials Research Society Symposia Proceedings</i> , 2013 , 1543, 125-129		1
13	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
12	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
11	Feature selection procedures for combined density functional theory Artificial neural network schemes. <i>Physica Scripta</i> , 2021 , 96, 065807	2.6	1
10	Bandgap atomistic calculations on hydrogen-passivated GeSi nanocrystals. <i>Scientific Reports</i> , 2021 , 11, 13582	4.9	1
9	Ab Initio Investigations of Thermoelectric Effects in Graphene Boron Nitride Nanoribbons. <i>EPJ Web of Conferences</i> , 2016 , 108, 02045	0.3	1
8	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
7	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
6	A drift-diffusion model based on the fractional exclusion statistics. <i>Journal of Physics: Conference Series</i> , 2016 , 738, 012006	0.3	
5	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	
4	Ab-initio investigation of point-like defects in AlN nanowires. <i>Journal of Physics: Conference Series</i> , 2012 , 338, 012014	0.3	
3	Coherent leakage current in mesoscopic MIS-type capacitors. <i>Materials Science in Semiconductor Processing</i> , 2003 , 6, 129-135	4.3	
2	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	
1	A Ballistic Transport Model for an Artificial Neuron. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020 , 217, 1900936	1.6	