

Aliasghar Shokri

List of Publications by Year in descending order

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49
papers

724
citations

687363

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552781

26
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51
all docs

51
docs citations

51
times ranked

734
citing authors

#	ARTICLE	IF	CITATIONS
1	Alloying of monolayer Zirconium Nitride with Magnesium and investigating its thermoelectric properties using DFT calculations. Solid State Communications, 2022, 343, 114642.	1.9	11
2	Modeling of molecular ternary logic gates and circuits based on diode structures. Journal of Molecular Modeling, 2022, 28, 130.	1.8	1
3	Vertical quantum tunneling transport based on MoS ₂ /WTe ₂ nanoribbons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 128228.	2.1	2
4	The effect of carbon nanotube electrodes on electron transport properties of nanowire phase change material Ge ₂ Sb ₂ Te ₅ . Applied Physics Letters, 2021, 118, 163101.	4.1	1
5	Electrical transport and rectification in a typical heterostructure based on fullerene "pentacene" suspended to copper leads. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	0
6	The effect of dilute magnetic doping of a topological insulator on the surface states. Results in Physics, 2021, 22, 103924.	4.1	0
7	An ab-initio study of structure and mechanical properties of rocksalt ZrN and its bilayers. Solid State Communications, 2021, 328, 114218.	1.9	13
8	Thermoelectric properties of tetragonal HfH ₂ under doping effect: First principles study. Physica B: Condensed Matter, 2021, 613, 413001.	2.7	1
9	Thermoelectric properties of Ti ₂ Te ₅ . Applied Physics Letters, 2021, 118, 163101.	2.7	7
10	Quantum transport of tunnel field effect transistors based on bilayer-graphene nanoribbon heterostructures. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 119, 113908.	2.7	9
11	Low bias electron transport properties of the graphene-Ge ₂ Sb ₂ Te ₅ heterostructure device. Results in Physics, 2020, 16, 102880.	4.1	0
12	Theoretical studies on electronic properties of a new carbon allotrope with pairing of pentagonal and heptagonal rings. European Physical Journal Plus, 2020, 135, 1.	2.6	3
13	Fe ₃ O ₄ @Au/reduced graphene oxide nanostructures: Combinatorial effects of radiotherapy and photothermal therapy on oral squamous carcinoma KB cell line. Ceramics International, 2020, 46, 28676-28685.	4.8	33
14	Ultrasound-Assisted Synthesis and Tuning the Magnetic and Structural Features of Superparamagnetic Fe ₃ O ₄ Nanoparticles by Using Ethylenediamine as a Precipitating Agent. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1879-1887.	1.8	5
15	Experimental and theoretical investigations on temperature and voltage dependence of an Au/AZO thin-film Schottky diode. International Nano Letters, 2019, 9, 161-168.	5.0	13
16	Merging of defect modes in a superlattice of one-dimensional metamaterials photonic crystals. AIP Advances, 2019, 9, .	1.3	8
17	Subthreshold electron transport properties of ultrathin film phase change material Ge ₂ Sb ₂ Te ₅ . AIP Advances, 2019, 9, .	1.3	6
18	Modulation of quantum transport properties in single-layer phosphorene nanoribbons using planar elastic strains. Journal of Materials Science, 2019, 54, 7728-7744.	3.7	8

#	ARTICLE	IF	CITATIONS
19	Ultrascaleability and electron transport properties of ultra-thin film phase change material Ge ₂ Sb ₂ Te ₅ . European Physical Journal B, 2019, 92, 1.	1.5	2
20	Thermoelectric properties in monolayer MoS_2 MoS ₂ nanoribbons with Rashba spin-orbit interaction. Journal of Materials Science, 2019, 54, 467-482.	3.7	10
21	Experimental and theoretical study of rhenium radioisotopes production for manufacturing of new compositional radiopharmaceuticals. Applied Radiation and Isotopes, 2019, 145, 176-179.	1.5	8
22	Computational investigation of single-wall carbon nanotube functionalized with palladium nanoclusters as hydrogen sulfide gas sensor. International Nano Letters, 2018, 8, 9-15.	5.0	7
23	The role of Co ion substitution in SnFe ₂ O ₄ spinel ferrite nanoparticles: Study of structural, vibrational, magnetic and optical properties. Ceramics International, 2018, 44, 22092-22101.	4.8	35
24	Three-leg molecular transistors as molecular logic circuits: Design and modeling. International Journal of Modern Physics B, 2018, 32, 1850234.	2.0	2
25	Tunable spin polarization of MoS ₂ nanoribbons without time-reversal breaking. Superlattices and Microstructures, 2017, 109, 605-618.	3.1	2
26	Effect of boron impurity in a carbon nanotube superlattice. International Journal of Modern Physics B, 2017, 31, 1750106.	2.0	1
27	Influence of AZO amorphous structure on n-AZO/p-Cu ₂ O heterojunction diode photoluminescence properties. Journal of Materials Science: Materials in Electronics, 2017, 28, 9378-9386.	2.2	14
28	Design and modeling of molecular logic circuits based on transistor structures. Journal of Computational Electronics, 2016, 15, 1416-1423.	2.5	5
29	Gas sensor based on MoS ₂ monolayer. Sensors and Actuators B: Chemical, 2016, 236, 378-385.	7.8	280
30	Optical Transition of Zigzag Silicon Nanotubes Under Intrinsic Curvature Effect. Silicon, 2016, 8, 217-224.	3.3	10
31	Tight-binding description of optoelectronic properties of silicon nanotubes. Optical and Quantum Electronics, 2015, 47, 2169-2179.	3.3	8
32	Transport engineering design of AND and NOR gates with a 1,4-2-phenyl-dithiolate molecule. Journal of Molecular Modeling, 2015, 21, 29.	1.8	4
33	Ab-initio study of planar strain on electronic structure properties of graphene sheets with nanoholes. Indian Journal of Physics, 2015, 89, 23-29.	1.8	6
34	Rashba spin-orbit coupling effect on tunneling time in semiconductor spintronic junctions. Journal of Materials Science, 2014, 49, 88-93.	3.7	4
35	Peculiar transport properties in Z-shaped graphene nanoribbons: A nanoscale NOR gate. Thin Solid Films, 2013, 548, 443-448.	1.8	21
36	Electrical transport properties of a CNT/C ₆₀ /CNT hybrid junction with closed end CNT leads using Green's function method. European Physical Journal B, 2013, 86, 1.	1.5	5

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37	Disorder effect on conductance in a doped C60molecular bridge. Journal of Applied Physics, 2013, 113, 094302.	2.5	0
38	Topology effects of interface and gate voltage on electrical transport through the CNT/C60/CNT junction using the Green's function method. Journal of Applied Physics, 2011, 110, .	2.5	12
39	Electronic transport through superlattice-graphene nanoribbons. European Physical Journal B, 2010, 75, 505-509.	1.5	24
40	Electron localization in superlattice-carbon nanotubes. European Physical Journal B, 2010, 78, 59-64.	1.5	12
41	Spin-dependent tunneling characteristics in Fe/MgO/Fe trilayers: First-principles calculations. Solid State Communications, 2010, 150, 214-218.	1.9	21
42	Electronic transport through superlattice-like disordered carbon nanotubes. Solid State Communications, 2009, 149, 874-879.	1.9	17
43	Quantum transport of spin-polarized carriers in quasi paramagnetic quantum wires: Green's function formalism. European Physical Journal B, 2009, 69, 245-250.	1.5	6
44	Spin-flip effect on electrical transport in magnetic quantum wire systems. Solid State Communications, 2006, 137, 53-58.	1.9	41
45	Angular dependence of tunneling magnetoresistance in magnetic semiconductor heterostructures. European Physical Journal B, 2006, 50, 475-481.	1.5	6
46	The role of nano-contacts in electrical transport through a molecular wire. Chemical Physics, 2006, 330, 287-294.	1.9	11
47	Quantum theory of tunneling magnetoresistance in GaMnAs/GaAs/GaMnAs heterostructures. Journal of Magnetism and Magnetic Materials, 2006, 305, 141-146.	2.3	16
48	Temperature and voltage dependence of magnetic barrier junctions with a nonmagnetic spacer. European Physical Journal B, 2004, 42, 187-191.	1.5	13
49	GIANT MAGNETORESISTANCE IN $C/Fe/Cr/O$ FILM. , 2000, , .		0