Aliasghar Shokri

List of Publications by Year
in descending order

49	724	687363 13	552781 26
papers	citations	h-index	g-index

51	51	51	734
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Gas sensor based on MoS2 monolayer. Sensors and Actuators B: Chemical, 2016, 236, 378-385.	7.8	280
2	Spin-flip effect on electrical transport in magnetic quantum wire systems. Solid State Communications, 2006, 137, 53-58.	1.9	41
3	The role of Co ion substitution in SnFe2O4 spinel ferrite nanoparticles: Study of structural, vibrational, magnetic and optical properties. Ceramics International, 2018, 44, 22092-22101.	4.8	35
4	Fe3O4@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
5	Electronic transport through superlattice-graphene nanoribbons. European Physical Journal B, 2010, 75, 505-509.	1.5	24
6	Spin-dependent tunneling characteristics in Fe/MgO/Fe trilayers: First-principles calculations. Solid State Communications, 2010, 150, 214-218.	1.9	21
7	Peculiar transport properties in Z-shaped graphene nanoribbons: A nanoscale NOR gate. Thin Solid Films, 2013, 548, 443-448.	1.8	21
8	Electronic transport through superlattice-like disordered carbon nanotubes. Solid State Communications, 2009, 149, 874-879.	1.9	17
9	Quantum theory of tunneling magnetoresistance in GaMnAs/GaAs/GaMnAs heterostructures. Journal of Magnetism and Magnetic Materials, 2006, 305, 141-146.	2.3	16
10	Influence of AZO amorphous structure on n-AZO/p-Cu2O heterojunction diode photoluminescence properties. Journal of Materials Science: Materials in Electronics, 2017, 28, 9378-9386.	2.2	14
11	Temperature and voltage dependence of magnetic barrier junctions with a nonmagnetic spacer. European Physical Journal B, 2004, 42, 187-191.	1.5	13
12	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
13	An ab-initio study of structure and mechanical properties of rocksalt ZrN and its bilayers. Solid State Communications, 2021, 328, 114218.	1.9	13
14	Electron localization in superlattice-carbon nanotubes. European Physical Journal B, 2010, 78, 59-64.	1.5	12
15	Topology effects of interface and gate voltage on electrical transport through the CNT/C60/CNT junction using the Greenâ€™s function method. Journal of Applied Physics, 2011, 110, .	2.5	12
16	The role of nano-contacts in electrical transport through a molecular wire. Chemical Physics, 2006, 330, 287-294.	1.9	11
17	Alloying of monolayer Zirconium Nitride with Magnesium and investigating its thermoelectric properties using DFT calculations. Solid State Communications, 2022, 343, 114642.	1.9	11
18	Optical Transition of Zigzag Silicon Nanotubes Under Intrinsic Curvature Effect. Silicon, 2016, 8, 217-224.	3.3	10

#	Article	IF	Citations
19	Thermoelectric properties in monolayer $$hbox {MoS}_2$$ MoS 2 nanoribbons with Rashba spinâ€“orbit interaction. Journal of Materials Science, 2019, 54, 467-482.	3.7	10
20	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
21	Tight-binding description of optoelectronic properties of silicon nanotubes. Optical and Quantum Electronics, 2015, 47, 2169-2179.	3.3	8
22	Merging of defect modes in a superlattice of one-dimensional metamaterials photonic crystals. AIP Advances, 2019, 9, .	1.3	8
23	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
24	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
25	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
26	Electronic, elastic and thermodynamic properties of Ti<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1039" altimg="si32.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mi>x</mml:mi></mml:mrow></mml:msub></mml:math>Zr<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline" id="d1e1047" altimg="si33.svg"><mml:msub><mml:mrow /><mml:mrow><mml:mn>1</mml:mn><mml:mo>â^’</mml:mo><	2.7	7
27	Angular dependence of tunneling magnetoresistance in magnetic semiconductor heterostructures. European Physical Journal B, 2006, 50, 475-481.	1.5	6
28	Quantum transport of spin-polarized carriers in quasi paramagnetic quantum wires: Greenâ€™s function formalism. European Physical Journal B, 2009, 69, 245-250.	1.5	6
29	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
30	Subthreshold electron transport properties of ultrathin film phase change material Ge2Sb2Te5. AIP Advances, 2019, 9, .	1.3	6
31	Electrical transport properties of a CNT/C60/CNT hybrid junction with closed end CNT leads using Greenâ€™s function method. European Physical Journal B, 2013, 86, 1.	1.5	5
32	Design and modeling of molecular logic circuits based on transistor structures. Journal of Computational Electronics, 2016, 15, 1416-1423.	2.5	5
33	Ultrasound-Assisted Synthesis and Tuning the Magnetic and Structural Features of Superparamagnetic Fe3O4 Nanoparticles by Using Ethylenediamine as a Precipitating Agent. Journal of Superconductivity and Novel Magnetism, 2020, 33, 1879-1887.	1.8	5
34	Rashba spinâ^’orbit coupling effect on tunneling time in semiconductor spintronic junctions. Journal of Materials Science, 2014, 49, 88-93.	3.7	4
35	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
36	Theoretical studies on electronic properties of a new carbon allotrope with paring of pentagonal and heptagonal rings. European Physical Journal Plus, 2020, 135, 1.	2.6	3

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37	Tunable spin polarization of MoS2 nanoribbons without time-reversal breaking. Superlattices and Microstructures, 2017, 109, 605-618.	3.1	2
38	Three-leg molecular transistors as molecular logic circuits: Design and modeling. International Journal of Modern Physics B, 2018, 32, 1850234.	2.0	2
39	Ultrascalability and electron transport properties of ultra-thin film phase change material Ge2Sb2Te5. European Physical Journal B, 2019, 92, 1.	1.5	2
40	Vertical quantum tunneling transport based on MoS2/WTe2 nanoribbons. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, , 128228.	2.1	2
41	Effect of boron impurity in a carbon nanotube superlattice. International Journal of Modern Physics B, 2017, 31, 1750106.	2.0	1
42	Thermoelectric properties of tetragonal HfH2 under doping effect: First principles study. Physica B: Condensed Matter, 2021, 613, 413001.	2.7	1
43	Modeling of molecular ternary logic gates and circuits based on diode structures. Journal of Molecular Modeling, 2022, 28, 130.	1.8	1
44	The effect of carbon nanotube electrodes on electron transport properties of nanowire phase change material Ge<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si13.svg" display="inline" id="d1e332"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></mml:math>Sb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si13.svg" display="inline" id="d1e340"><mml:msub><mml:mrow /><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msub></	4.1	1
45	GIANT MAGNETORESISTANCE IN C/Fe/Cr/O FILM. , 2000, , .		0
46	Disorder effect on conductance in a doped C60molecular bridge. Journal of Applied Physics, 2013, 113, 094302.	2.5	0
47	Low bias electron transport properties of the graphene-Ge2Sb2Te5 heterostructure device. Results in Physics, 2020, 16, 102880.	4.1	0
48	Electrical transport and rectification in a typical heterostructure based on fullereneâ€“pentacene suspended to copper leads. Applied Physics A: Materials Science and Processing, 2021, 127, 1.	2.3	0
49	The effect of dilute magnetic doping of a topological insulator on the surface states. Results in Physics, 2021, 22, 103924.	4.1	0