

Farhad Khoeini

List of Publications by Year in descending order

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papers

746
citations

623734

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48
all docs

48
docs citations

48
times ranked

841
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of polymer coatings on magnetite nanoparticles performance as MRI contrast agents: a comparative study. DARU, Journal of Pharmaceutical Sciences, 2015, 23, 45.	2.0	94
2	Synthesis and characterization of dextran coated magnetite nanoparticles for diagnostics and therapy. BiolImpacts, 2015, 5, 141-150.	1.5	70
3	Thermal conductivity and thermal rectification of nanoporous graphene: A molecular dynamics simulation. International Journal of Heat and Mass Transfer, 2020, 146, 118884.	4.8	55
4	Peculiar half-metallic state in zigzag nanoribbons of MoS_2 . Spin filtering. Physical Review B, 2016, 94, .	3.2	152
5	Thermal transport in silicene nanotubes: Effects of length, grain boundary and strain. International Journal of Heat and Mass Transfer, 2019, 134, 503-510.	4.8	26
6	Electronic transport through superlattice-graphene nanoribbons. European Physical Journal B, 2010, 75, 505-509.	1.5	24
7	Vesicle-like structure of lipid-based nanoparticles as drug delivery system revealed by molecular dynamics simulations. International Journal of Pharmaceutics, 2019, 559, 173-181.	5.2	24
8	Thermal transport across grain boundaries in polycrystalline silicene: A multiscale modeling. Scientific Reports, 2019, 9, 5684.	3.3	22
9	Peculiar transport properties in Z-shaped graphene nanoribbons: A nanoscale NOR gate. Thin Solid Films, 2013, 548, 443-448.	1.8	21
10	Highly tunable charge and spin transport in silicene junctions: phase transitions and half-metallic states. Nanotechnology, 2018, 29, 325203.	2.6	20
11	Impact of torsion and disorder on the thermal conductivity of Si nanowires: A nonequilibrium molecular dynamics study. Journal of Physics and Chemistry of Solids, 2018, 112, 216-221.	4.0	18
12	Electronic transport through superlattice-like disordered carbon nanotubes. Solid State Communications, 2009, 149, 874-879.	1.9	17
13	Effect of uniaxial strain on electrical conductance and band gap of superlattice-graphene nanoribbons. Superlattices and Microstructures, 2015, 81, 202-214.	3.1	17
14	Thermal rectification and interfacial thermal resistance in hybrid pillared-graphene and graphene: a molecular dynamics and continuum approach. Nanotechnology, 2020, 31, 285707.	2.6	15
15	Thermal transport in two-dimensional C3N/C2N superlattices: A molecular dynamics approach. International Journal of Heat and Mass Transfer, 2021, 177, 121561.	4.8	15
16	Electronic and thermodynamic properties of zigzag $\text{MoS}_2/\text{MoSe}_2$ and $\text{MoS}_2/\text{WSe}_2$ hybrid nanoribbons: Impacts of electric and exchange fields. Results in Physics, 2022, 34, 105253.	4.1	14
17	Tunable spin transport and quantum phase transitions in silicene materials and superlattices. Journal of Materials Science, 2019, 54, 14483-14494.	3.7	13
18	Electronic, dielectric, and optical properties of two-dimensional and bulk ice: A multiscale simulation study. Physical Review B, 2020, 101, .	3.2	13

#	ARTICLE	IF	CITATIONS
19	Electron localization in superlattice-carbon nanotubes. <i>European Physical Journal B</i> , 2010, 78, 59-64.	1.5	12
20	Analytical study of electronic quantum transport in carbon-based nanomaterials. <i>Diamond and Related Materials</i> , 2014, 47, 7-14.	3.9	12
21	Electronic structure of the PrNiBi half-Heusler system based on the \tilde{f} GGA method. <i>Scientific Reports</i> , 2019, 9, 20075.	3.3	12
22	Predicting the new carbon nanocages, fullerynes: a DFT study. <i>Scientific Reports</i> , 2021, 11, 2511.	3.3	12
23	Vacancy tuned thermoelectric properties and high spin filtering performance in graphene/silicene heterostructures. <i>Scientific Reports</i> , 2021, 11, 15320.	3.3	12
24	Effect of graphene and carbon-nitride nanofillers on the thermal transport properties of polymer nanocomposites: A combined molecular dynamics and finite element study. <i>Physical Review E</i> , 2021, 103, 013310.	2.1	12
25	Electronic transport properties in the stable phase of a cumulene/B ₇ /cumulene molecular bridge investigated using density functional theory and a tight-binding method. <i>New Journal of Chemistry</i> , 2019, 43, 16515-16523.	2.8	11
26	Mechanical properties of twin graphene subjected to uniaxial stress by molecular dynamic simulation. <i>Materials Research Express</i> , 2019, 6, 105611.	1.6	10
27	Heat transfer in strained twin graphene: A non-equilibrium molecular dynamics simulation. <i>Physica A: Statistical Mechanics and Its Applications</i> , 2021, 564, 125542.	2.6	10
28	Combined effect of oriented strain and external magnetic field on electrical properties of superlattice-graphene nanoribbons. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 405501.	2.8	9
29	Pure thermal spin current and perfect spin-filtering with negative differential thermoelectric resistance induced by proximity effect in graphene/silicene junctions. <i>Scientific Reports</i> , 2021, 11, 104.	3.3	9
30	Tunable electronic properties and electric-field-induced phase transition in phosphorene/graphene heterostructures. <i>Journal Physics D: Applied Physics</i> , 2021, 54, 095108.	2.8	9
31	Enhanced nonlinear optical susceptibilities in phosphorene nanoribbons: <i>Ab initio</i> study. <i>Journal of Applied Physics</i> , 2018, 123, 245113.	2.5	8
32	Topological and transport properties of graphene-based nanojunctions subjected to a magnetic field. <i>Nanotechnology</i> , 2020, 31, 025701.	2.6	8
33	Electronic quantum transport through inhomogeneous quantum wires. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2009, 41, 1533-1538.	2.7	7
34	Electronic Transport in Bi-Asymmetric T-Shaped Graphene Nanoribbons. <i>Journal of Computational and Theoretical Nanoscience</i> , 2011, 8, 740-745.	0.4	7
35	Impact of topological line defects on wall roughness and thermal conductivity of carbon nanotubes: A molecular dynamics study. <i>AIP Advances</i> , 2019, 9, .	1.3	7
36	Hydration effects and negative dielectric constant of nano-confined water between cation intercalated MXenes. <i>Nanoscale</i> , 2021, 13, 922-929.	5.6	7

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37	Electromechanical and magnetic response in zigzag phosphorene nanoribbons. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 123, 114200.	2.7	7
38	Analytical and numerical study of quantum transport in an array of nanorings: A case study with double rings. Physica E: Low-Dimensional Systems and Nanostructures, 2013, 47, 297-302.	2.7	6
39	Optical transitions and localized edge states in skewed zigzag phosphorene nanoribbons. Materials Express, 2018, 8, 489-499.	0.5	5
40	Tunable transport properties in graphene-DNA and silicene-DNA by controlling the thickness of nanopores. Chemical Physics, 2021, 541, 111048.	1.9	5
41	Highly tunable charge transport in defective graphene nanoribbons under external local forces and constraints: A hybrid computational study. Results in Physics, 2021, 20, 103770.	4.1	5
42	Modeling of Transport in a Glider-Like Composite of GNR/CNT/GNR Junctions. Journal of Computational and Theoretical Nanoscience, 2011, 8, 1315-1320.	0.4	4
43	Numerical study of localization length in disordered graphene nanoribbons. Superlattices and Microstructures, 2012, 51, 785-791.	3.1	3
44	Investigation of electrical properties in AB-Stacked bilayer Graphene-DNA nanostructures. Superlattices and Microstructures, 2019, 130, 182-193.	3.1	3
45	Optical Response of Sila-Fulleranes in Interaction With Glycoproteins for Environmental Monitoring. Frontiers in Physics, 2021, 9, .	2.1	2
46	Phase transition and electronic tuning in gamma-graphyenenanoribbons through uniaxial strain and electric field. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114355.	2.7	1