Farhad Khoeini

List of Publications by Year
in descending order

46	746	623734	610901
papers	citations	14 h-index	24 g-index

48	48	48	841
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Electronic and thermodynamic properties of zigzag MoS2/ MoSe2 and MoS2/ WSe2 hybrid nanoribbons: Impacts of electric and exchange fields. Results in Physics, 2022, 34, 105253.	4.1	14
2	Tunable transport properties in graphene-DNA and silicene-DNA by controlling the thickness of nanopores. Chemical Physics, 2021, 541, 111048.	1.9	5
3	Heat transfer in strained twin graphene: A non-equilibrium molecular dynamics simulation. Physica A: Statistical Mechanics and Its Applications, 2021, 564, 125542.	2.6	10
4	Hydration effects and negative dielectric constant of nano-confined water between cation intercalated MXenes. Nanoscale, 2021, 13, 922-929.	5.6	7
5	Predicting the new carbon nanocages, fullerynes: a DFT study. Scientific Reports, 2021, 11, 2511.	3.3	12
6	Pure thermal spin current and perfect spin-filtering with negative differential thermoelectric resistance induced by proximity effect in graphene/silicene junctions. Scientific Reports, 2021, 11, 104.	3.3	9
7	Optical Response of Sila-Fulleranes in Interaction With Glycoproteins for Environmental Monitoring. Frontiers in Physics, 2021, 9, .	2.1	2
8	Vacancy tuned thermoelectric properties and high spin filtering performance in graphene/silicene heterostructures. Scientific Reports, 2021, 11, 15320.	3.3	12
9	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
10	Effect of graphene and carbon-nitride nanofillers on the thermal transport properties of polymer nanocomposites: A combined molecular dynamics and finite element study. Physical Review E, 2021, 103, 013310.	2.1	12
11	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
12	Tunable electronic properties and electric-field-induced phase transition in phosphorene/graphene heterostructures. Journal Physics D: Applied Physics, 2021, 54, 095108.	2.8	9
13	Topological and transport properties of graphene-based nanojunctions subjected to a magnetic field. Nanotechnology, 2020, 31, 025701.	2.6	8
14	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
15	Phase transition and electronic tuning in gamma-graphynenanoribbons through uniaxial strain and electric field. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 124, 114355.	2.7	1
16	Electronic, dielectric, and optical properties of two-dimensional and bulk ice: A multiscale simulation study. Physical Review B, 2020, 101, .	3.2	13
17	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
18	Electromechanical and magnetic response in zigzag phosphorene nanoribbons. Physica E: Low-Dimensional Systems and Nanostructures, 2020, 123, 114200.	2.7	7

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19	Mechanical properties of twin graphene subjected to uniaxial stress by molecular dynamic simulation. Materials Research Express, 2019, 6, 105611.	1.6	10
20	Tunable spin transport and quantum phase transitions in silicene materials and superlattices. Journal of Materials Science, 2019, 54, 14483-14494.	3.7	13
21	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
22	Investigation of electrical properties in AB-Stacked bilayer Graphene-DNA nanostructures. Superlattices and Microstructures, 2019, 130, 182-193.	3.1	3
23	Thermal transport across grain boundaries in polycrystalline silicene: A multiscale modeling. Scientific Reports, 2019, 9, 5684.	3.3	22
24	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
25	Impact of topological line defects on wall roughness and thermal conductivity of carbon nanotubes: A molecular dynamics study. AIP Advances, 2019, 9, .	1.3	7
26	Electronic structure of the PrNiBi half-Heusler system based on the ÏƒGGAâ€‰+â€‰U method. Scientific Reports, 2019, 9, 20075.	3.3	12
27	Electronic transport properties in the stable phase of a cumulene/B₇/cumulene molecular bridge investigated using density functional theory and a tight-binding method. New Journal of Chemistry, 2019, 43, 16515-16523.	2.8	11
28	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
29	Optical transitions and localized edge states in skewed zigzag phosphorene nanoribbons. Materials Express, 2018, 8, 489-499.	0.5	5
30	Highly tunable charge and spin transport in silicene junctions: phase transitions and half-metallic states. Nanotechnology, 2018, 29, 325203.	2.6	20
31	Enhanced nonlinear optical susceptibilities in phosphorene nanoribbons: Ab initio study. Journal of Applied Physics, 2018, 123, 245113.	2.5	8
32	Peculiar half-metallic state in zigzag nanoribbons of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>MoS</mml:mi><mml:mn>2</mml:mn></mml:msub></mml Spin filtering. Physical Review B, 2016, 94, .	3.2	53
33	Synthesis and characterization of dextran coated magnetite nanoparticles for diagnostics and therapy. BioImpacts, 2015, 5, 141-150.	1.5	70
34	Combined effect of oriented strain and external magnetic field on electrical properties of superlattice-graphene nanoribbons. Journal Physics D: Applied Physics, 2015, 48, 405501.	2.8	9
35	Effect of uniaxial strain on electrical conductance and band gap of superlattice-graphene nanoribbons. Superlattices and Microstructures, 2015, 81, 202-214.	3.1	17
36	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

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37	Analytical study of electronic quantum transport in carbon-based nanomaterials. Diamond and Related Materials, 2014, 47, 7-14.	3.9	12
38	Peculiar transport properties in Z-shaped graphene nanoribbons: A nanoscale NOR gate. Thin Solid Films, 2013, 548, 443-448.	1.8	21
39	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
40	Numerical study of localization length in disordered graphene nanoribbons. Superlattices and Microstructures, 2012, 51, 785-791.	3.1	3
41	Electronic Transport in Bi-Asymmetric T-Shaped Graphene Nanoribbons. Journal of Computational and Theoretical Nanoscience, 2011, 8, 740-745.	0.4	7
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	Electronic transport through superlattice-graphene nanoribbons. European Physical Journal B, 2010, 75, 505-509.	1.5	24
44	Electron localization in superlattice-carbon nanotubes. European Physical Journal B, 2010, 78, 59-64.	1.5	12
45	Electronic transport through superlattice-like disordered carbon nanotubes. Solid State Communications, 2009, 149, 874-879.	1.9	17
46	Electronic quantum transport through inhomogeneous quantum wires. Physica E: Low-Dimensional Systems and Nanostructures, 2009, 41, 1533-1538.	2.7	7