

Jingchao Zhang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65
papers

1,934
citations

28
h-index

42
g-index

68
ext. papers

2,297
ext. citations

5.1
avg, IF

5.47
L-index

#	Paper	IF	Citations
65	Overview of Computational Fluid Dynamics Simulation of Reactor-Scale Biomass Pyrolysis. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 2783-2798	8.3	120
64	Thermal conductivity of a two-dimensional phosphorene sheet: a comparative study with graphene. <i>Nanoscale</i> , 2015 , 7, 18716-24	7.7	107
63	Thermal transport across graphene and single layer hexagonal boron nitride. <i>Journal of Applied Physics</i> , 2015 , 117, 134307	2.5	90
62	Micro/nanoscale spatial resolution temperature probing for the interfacial thermal characterization of epitaxial graphene on 4H-SiC. <i>Small</i> , 2011 , 7, 3324-33	11	84
61	Monolayer and bilayer polyaniline CN: two-dimensional semiconductors with high thermal conductivity. <i>Nanoscale</i> , 2018 , 10, 4301-4310	7.7	72
60	Thermal Conductivity of Monolayer MoSe ₂ and MoS ₂ . <i>Journal of Physical Chemistry C</i> , 2016 , 120, 26067-26075	7.9	69
59	Molecular dynamics simulation of the interfacial thermal resistance between phosphorene and silicon substrate. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 104, 871-877	4.9	67
58	Tuning thermal contact conductance at graphene-copper interface via surface nanoengineering. <i>Nanoscale</i> , 2015 , 7, 6286-94	7.7	60
57	Coupling DAEM and CFD for simulating biomass fast pyrolysis in fluidized beds. <i>Journal of Analytical and Applied Pyrolysis</i> , 2016 , 117, 176-181	6	58
56	Rough contact is not always bad for interfacial energy coupling. <i>Nanoscale</i> , 2013 , 5, 11598-603	7.7	58
55	Dynamic response of graphene to thermal impulse. <i>Physical Review B</i> , 2011 , 84,	3.3	57
54	Machine learning and artificial neural network prediction of interfacial thermal resistance between graphene and hexagonal boron nitride. <i>Nanoscale</i> , 2018 , 10, 19092-19099	7.7	55
53	A comprehensive review on the molecular dynamics simulation of the novel thermal properties of graphene. <i>RSC Advances</i> , 2015 , 5, 89415-89426	3.7	54
52	Thermal transport across graphene/SiC interface: effects of atomic bond and crystallinity of substrate. <i>Applied Physics A: Materials Science and Processing</i> , 2015 , 119, 415-424	2.6	46
51	Interlayer thermal conductance within a phosphorene and graphene bilayer. <i>Nanoscale</i> , 2016 , 8, 19211-19218	7.7	43
50	Thermal contact resistance across a linear heterojunction within a hybrid graphene/hexagonal boron nitride sheet. <i>Physical Chemistry Chemical Physics</i> , 2016 , 18, 24164-70	3.6	43
49	Molecular dynamics study of interfacial thermal transport between silicene and substrates. <i>Physical Chemistry Chemical Physics</i> , 2015 , 17, 23704-10	3.6	41

48	Thermal transport in bent graphene nanoribbons. <i>Nanoscale</i> , 2013 , 5, 734-43	7.7	38
47	Accelerated discoveries of mechanical properties of graphene using machine learning and high-throughput computation. <i>Carbon</i> , 2019 , 148, 115-123	10.4	37
46	Five orders of magnitude reduction in energy coupling across corrugated graphene/substrate interfaces. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 2809-18	9.5	37
45	Phonon thermal conduction in a graphene-CN heterobilayer using molecular dynamics simulations. <i>Nanotechnology</i> , 2019 , 30, 075403	3.4	33
44	Lateral and flexural phonon thermal transport in graphene and stanene bilayers. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 6554-6562	3.6	31
43	Phonon Thermal Properties of Transition-Metal Dichalcogenides MoS ₂ and MoSe ₂ Heterostructure. <i>Journal of Physical Chemistry C</i> , 2017 , 121, 10336-10344	3.8	31
42	Heat transfer and flow characteristics of microchannels with solid and porous ribs. <i>Applied Thermal Engineering</i> , 2020 , 178, 115639	5.8	31
41	Coherent and incoherent phonon transport in a graphene and nitrogenated holey graphene superlattice. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 24240-24248	3.6	31
40	Molecular dynamics study of thermal transport in a nitrogenated holey graphene bilayer. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 5119-5127	7.1	28
39	Water desalination through rim functionalized carbon nanotubes. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 3583-3591	13	28
38	Phonon energy inversion in graphene during transient thermal transport. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 721-726	2.3	28
37	Machine learning and artificial neural network accelerated computational discoveries in materials science. <i>Wiley Interdisciplinary Reviews: Computational Molecular Science</i> , 2020 , 10, e1450	7.9	28
36	Molecular dynamics study of thermal transport in a dinaphtho[2,3-b:2'3'-b']thieno[3,2-b]thiophene (DNNT) organic semiconductor. <i>Nanoscale</i> , 2017 , 9, 2262-2271	7.7	27
35	Co-existing heat currents in opposite directions in graphene nanoribbons. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2013 , 377, 2970-2978	2.3	26
34	Machine Learning Enabled Prediction of Mechanical Properties of Tungsten Disulfide Monolayer. <i>ACS Omega</i> , 2019 , 4, 10121-10128	3.9	24
33	Phonon thermal transport in a graphene/MoSe van der Waals heterobilayer. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 2637-2645	3.6	23
32	Thermal transport across atomic-layer material interfaces. <i>Nanotechnology Reviews</i> , 2015 , 4,	6.3	22
31	Molecular dynamics study on thermal transport at carbon nanotube interface junctions: Effects of mechanical force and chemical functionalization. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 103, 1058-1064	4.9	22

30	Multiphoton Absorption Stimulated Metal Chalcogenide Quantum Dot Solar Cells under Ambient and Concentrated Irradiance. <i>Advanced Functional Materials</i> , 2020 , 30, 2004563	15.6	21
29	Phonon thermal transport in silicene-germanene superlattice: a molecular dynamics study. <i>Nanotechnology</i> , 2017 , 28, 255403	3.4	20
28	Energy coupling across low-dimensional contact interfaces at the atomic scale. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 110, 827-844	4.9	20
27	Mechanical properties of molybdenum diselenide revealed by molecular dynamics simulation and support vector machine. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 9159-9167	3.6	20
26	Understanding thermal transport in asymmetric layer hexagonal boron nitride heterostructure. <i>Nanotechnology</i> , 2017 , 28, 035404	3.4	18
25	Colloidal quantum dot hybrids: an emerging class of materials for ambient lighting. <i>Journal of Materials Chemistry C</i> , 2020 , 8, 10676-10695	7.1	18
24	Investigation of interfacial thermal transport across graphene and an organic semiconductor using molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2017 , 19, 15933-15941	3.6	17
23	Chemically encoded self-organized quantum chain supracrystals with exceptional charge and ion transport properties. <i>Nano Energy</i> , 2019 , 62, 764-771	17.1	14
22	Thermal transport in phosphorene and phosphorene-based materials: A review on numerical studies. <i>Chinese Physics B</i> , 2018 , 27, 036501	1.2	12
21	Phase change and stress wave in picosecond laser/material interaction with shock wave formation. <i>Applied Physics A: Materials Science and Processing</i> , 2013 , 112, 677-687	2.6	12
20	Tuning thermal conductance of CNT interface junction via stretching and atomic bonding. <i>Journal Physics D: Applied Physics</i> , 2017 , 50, 475302	3	10
19	Significantly reduced c-axis thermal diffusivity of graphene-based papers. <i>Nanotechnology</i> , 2018 , 29, 265702	3.4	10
18	Enhancement of Interfacial Thermal Transport between Metal and Organic Semiconductor Using Self-Assembled Monolayers with Different Terminal Groups. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 16748-16757	3.8	9
17	Overview of Computational Simulations in Quantum Dots. <i>Israel Journal of Chemistry</i> , 2019 , 59, 661-672	3.4	8
16	Molecular interaction balanced one- and two-dimensional hybrid nanoarchitectures for high-performance supercapacitors. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 22283-22292	3.6	7
15	Toward Improved Thermal Conductance of Graphene-Polyethylene Composites via Surface Defect Engineering: a Molecular Dynamics Study. <i>Wuli Huaxue Xuebao/Acta Physico-Chimica Sinica</i> , 2019 , 35, 1150-1156	3.8	7
14	Improved thermoelectric properties of WS-WSe phononic crystals: insights from first-principles calculations. <i>Nanoscale</i> , 2021 , 13, 7176-7192	7.7	7
13	Critical fracture properties of puckered and buckled arsenenes by molecular dynamics simulations. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 12372-12379	3.6	6

12	Mechanical responses of WSe2 monolayers: a molecular dynamics study. <i>Materials Research Express</i> , 2019 , 6, 085071	1.7	6
11	High-Throughput Computations of Cross-Plane Thermal Conductivity in Multilayer Stanene. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 171, 121073	4.9	6
10	Rational-Designed Hybrid Aerogels for Ultra-Flyweight Electrochemical Energy Storage. <i>Journal of Physical Chemistry C</i> , 2020 , 124, 15688-15697	3.8	5
9	Growth of quantum dot coated core-shell anisotropic nanowires for improved thermal and electronic transport. <i>Applied Physics Letters</i> , 2019 , 114, 243104	3.4	5
8	Thermal transport in organic semiconductors. <i>Journal of Applied Physics</i> , 2021 , 130, 170902	2.5	5
7	Molecular dynamics study of anisotropic behaviours of water droplet on textured surfaces with various energies. <i>Molecular Physics</i> , 2021 , 119, e1785028	1.7	5
6	Molecular Dynamics and Machine Learning in Catalysts. <i>Catalysts</i> , 2021 , 11, 1129	4	4
5	The pH Effect on Thermal Response of Fluorescence Spectroscopy of Graphene Quantum Dots for Nanoscale Thermal Characterization. <i>Journal of Engineering Thermophysics</i> , 2018 , 27, 345-356	1.4	3
4	Applications of Machine learning in Computational Nanotechnology.. <i>Nanotechnology</i> , 2021 ,	3.4	2
3	Atomistic insights into dynamic growth of pentacene thin films on metal surfaces functionalized with self-assembled monolayers. <i>Applied Surface Science</i> , 2022 , 579, 152203	6.7	2
2	Thermal Boundary Resistance at Graphene-Pentacene Interface Explored by A Data-Intensive Approach. <i>Nanotechnology</i> , 2021 ,	3.4	2
1	Full-spectrum thermal analysis in twisted bilayer graphene. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 19166-19172	3.6	1