

Xinyu Wang

List of Publications by Year in descending order

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Version: 2024-02-01

53
papers

1,499
citations

361045

20
h-index

315357

38
g-index

53
all docs

53
docs citations

53
times ranked

1888
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental and numerical studies of liquid-liquid two-phase flows in microchannel with sudden expansion/contraction cavities. <i>Chemical Engineering Journal</i> , 2022, 433, 133820.	6.6	8
2	Numerical study of droplet impact on superhydrophobic vibrating surfaces with microstructures. <i>Case Studies in Thermal Engineering</i> , 2022, 30, 101732.	2.8	1
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.	3.1	6
4	Intelligent identification of two-phase flow patterns in a long pipeline-riser system. <i>Flow Measurement and Instrumentation</i> , 2022, 84, 102124.	1.0	4
5	Improvement of flow and heat transfer performance of manifold microchannel with porous fins. <i>Applied Thermal Engineering</i> , 2022, 206, 118129.	3.0	31
6	Discovery of high thermoelectric performance of WS ₂ -WSe ₂ nanoribbons with superlattice and Janus structures. <i>Journal of Alloys and Compounds</i> , 2022, 903, 163850.	2.8	7
7	Tuning Interfacial Thermal Conductance Across Metal–Organic Semiconductor Interfaces by Mixing Self-Assembled Monolayers. <i>ACS Applied Electronic Materials</i> , 2022, 4, 718-728.	2.0	4
8	Interfacial thermal transport of graphene/Î ² -Ga ₂ O ₃ heterojunction: a molecular dynamics study with a self-consistent interatomic potential. <i>Physical Chemistry Chemical Physics</i> , 2022, , .	1.3	3
9	Investigation of flow and heat transfer performance of the manifold microchannel with different manifold arrangements. <i>Case Studies in Thermal Engineering</i> , 2022, 34, 102073.	2.8	17
10	Strain engineering on the thermoelectric performance of monolayer AlP ₃ : A first-principles study. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2022, , 115365.	1.3	1
11	First-principles calculations of phonon behaviors in graphether: a comparative study with graphene. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 123-130.	1.3	22
12	Improved thermoelectric properties of WS ₂ –WSe ₂ phononic crystals: insights from first-principles calculations. <i>Nanoscale</i> , 2021, 13, 7176-7192.	2.8	24
13	Thermal boundary resistance at graphene-pentacene interface explored by a data-intensive approach. <i>Nanotechnology</i> , 2021, 32, 215404.	1.3	3
14	Microfluidics in cardiovascular disease research: state of the art and future outlook. <i>Microsystems and Nanoengineering</i> , 2021, 7, 19.	3.4	47
15	High-Throughput Computations of Cross-Plane Thermal Conductivity in Multilayer Stanene. <i>International Journal of Heat and Mass Transfer</i> , 2021, 171, 121073.	2.5	10
16	A numerical study on hydrodynamic and heat transfer characteristics of gas–liquid Taylor flow in horizontal mini tubes. <i>Numerical Heat Transfer; Part A: Applications</i> , 2021, 80, 487-504.	1.2	1
17	Extraordinary thermoelectric performance in 2D group III monolayer XP ₃ (X = Al, Ga, and Tl). <i>ETQq1 1 Q.784314 ggBT /Over</i>	1.3	1.3
18	Dewetting transition of water on nanostructured and wettability patterned surfaces: A molecular dynamics study. <i>Journal of Molecular Liquids</i> , 2021, 336, 116869.	2.3	8

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19	Flow regime recognition in a long pipeline-riser system based on signals at the top of the riser. <i>Flow Measurement and Instrumentation</i> , 2021, 80, 101987.	1.0	3
20	Nonequilibrium phonon transport induced by finite sizes: Effect of phonon-phonon coupling. <i>Physical Review B</i> , 2021, 104, .	1.1	9
21	Predicting the effective thermal conductivity of unfrozen soils with various water contents based on artificial neural network. <i>Nanotechnology</i> , 2021, 33, .	1.3	6
22	Thermal transport in organic semiconductors. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	18
23	Studies of gas-liquid two-phase flows in horizontal mini tubes using 3D reconstruction and numerical methods. <i>International Journal of Multiphase Flow</i> , 2020, 133, 103456.	1.6	19
24	Thermal and flow characterization in nanochannels with tunable surface wettability: A comprehensive molecular dynamics study. <i>Numerical Heat Transfer; Part A: Applications</i> , 2020, 78, 231-251.	1.2	17
25	Effect of biaxial strain on thermal transport in WS ₂ monolayer from first principles calculations. <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2020, 124, 114312.	1.3	31
26	Microfluidic-mediated nano-drug delivery systems: from fundamentals to fabrication for advanced therapeutic applications. <i>Nanoscale</i> , 2020, 12, 15512-15527.	2.8	58
27	Heat transfer and flow characteristics of microchannels with solid and porous ribs. <i>Applied Thermal Engineering</i> , 2020, 178, 115639.	3.0	62
28	Atomistic simulations of phonon behaviors in isotopically doped graphene with Sierpinski carpet fractal structure. <i>Materials Research Express</i> , 2020, 7, 035020.	0.8	9
29	Molecular dynamics study of convective heat transfer mechanism in a nano heat exchanger. <i>RSC Advances</i> , 2020, 10, 23097-23107.	1.7	13
30	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.	1.5	18
31	Molecular dynamic simulation of thermal transport in monolayer C ₃ B _x N _{1-x} alloy. <i>Nanotechnology</i> , 2020, 31, 185404.	1.3	3
32	Cell-Inspired All-Aqueous Microfluidics: From Intracellular Liquid-Liquid Phase Separation toward Advanced Biomaterials. <i>Advanced Science</i> , 2020, 7, 1903359.	5.6	111
33	Self-Assembled chitosan/phospholipid nanoparticles: from fundamentals to preparation for advanced drug delivery. <i>Drug Delivery</i> , 2020, 27, 200-215.	2.5	34
34	Tunable thermal transport in a WS ₂ monolayer with isotopic doping and fractal structure. <i>Nanoscale</i> , 2019, 11, 19763-19771.	2.8	20
35	Machine Learning Enabled Prediction of Mechanical Properties of Tungsten Disulfide Monolayer. <i>ACS Omega</i> , 2019, 4, 10121-10128.	1.6	40
36	Mechanical responses of WSe ₂ monolayers: a molecular dynamics study. <i>Materials Research Express</i> , 2019, 6, 085071.	0.8	17

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37	Achieving high performance Ga ₂ O ₃ diodes by adjusting chemical composition of tin oxide Schottky electrode. <i>Semiconductor Science and Technology</i> , 2019, 34, 075001.	1.0	6
38	Mechanical properties of molybdenum diselenide revealed by molecular dynamics simulation and support vector machine. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 9159-9167.	1.3	33
39	Thermal transport in C ₃ N nanotube: a comparative study with carbon nanotube. <i>Nanotechnology</i> , 2019, 30, 255401.	1.3	12
40	Phonon thermal conduction in a graphene/C ₃ N heterobilayer using molecular dynamics simulations. <i>Nanotechnology</i> , 2019, 30, 075403.	1.3	55
41	Thermal Transport in Supported Graphene Nanomesh. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 9211-9215.	4.0	16
42	Molecular dynamics study of thermal transport in a dinaphtho[2,3-b:2',3'-f]thieno[3,2-b]thiophene (DNNT) organic semiconductor. <i>Nanoscale</i> , 2017, 9, 2262-2271.	2.8	31
43	Phonon thermal transport in silicene-germanene superlattice: a molecular dynamics study. <i>Nanotechnology</i> , 2017, 28, 255403.	1.3	34
44	Phonon Thermal Properties of Transition-Metal Dichalcogenides MoS ₂ and MoSe ₂ Heterostructure. <i>Journal of Physical Chemistry C</i> , 2017, 121, 10336-10344.	1.5	44
45	Molecular dynamics study of thermal transport in a nitrogenated holey graphene bilayer. <i>Journal of Materials Chemistry C</i> , 2017, 5, 5119-5127.	2.7	36
46	Understanding thermal transport in asymmetric layer hexagonal boron nitride heterostructure. <i>Nanotechnology</i> , 2017, 28, 035404.	1.3	19
47	Coherent and incoherent phonon transport in a graphene and nitrogenated holey graphene superlattice. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 24240-24248.	1.3	38
48	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.	1.3	21
49	Thermal Annealing Effect on the Thermal and Electrical Properties of Organic Semiconductor Thin Films. <i>MRS Advances</i> , 2016, 1, 1637-1643.	0.5	7
50	A Low-Operating-Power and Flexible Active-Matrix Organic-Transistor Temperature-Sensor Array. <i>Advanced Materials</i> , 2016, 28, 4832-4838.	11.1	265
51	Modifying the thermal conductivity of small molecule organic semiconductor thin films with metal nanoparticles. <i>Scientific Reports</i> , 2015, 5, 16095.	1.6	35
52	Direct Patterning of Self-Assembled Monolayers by Stamp Printing Method and Applications in High Performance Organic Field-Effect Transistors and Complementary Inverters. <i>Advanced Functional Materials</i> , 2015, 25, 6112-6121.	7.8	43
53	High performance organic transistor active-matrix driver developed on paper substrate. <i>Scientific Reports</i> , 2014, 4, 6430.	1.6	110