

Nuo Yang

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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.

89
papers

4,366
citations

37
h-index

65
g-index

98
ext. papers

5,391
ext. citations

6.6
avg, IF

6.04
L-index

#	Paper	IF	Citations
89	Thermal rectification in asymmetric graphene ribbons. <i>Applied Physics Letters</i> , 2009 , 95, 033107	3.4	273
88	Carbon nanocone: A promising thermal rectifier. <i>Applied Physics Letters</i> , 2008 , 93, 243111	3.4	218
87	Thermal rectification and negative differential thermal resistance in lattices with mass gradient. <i>Physical Review B</i> , 2007 , 76,	3.3	215
86	Ultralow thermal conductivity of isotope-doped silicon nanowires. <i>Nano Letters</i> , 2008 , 8, 276-80	11.5	197
85	Enhancing the solar still performance using nanofluids and glass cover cooling: Experimental study. <i>Applied Thermal Engineering</i> , 2017 , 113, 684-693	5.8	193
84	Violation of Fourier's law and anomalous heat diffusion in silicon nanowires. <i>Nano Today</i> , 2010 , 5, 85-90	17.9	191
83	The effects of flake graphite nanoparticles, phase change material, and film cooling on the solar still performance. <i>Applied Energy</i> , 2017 , 191, 358-366	10.7	160
82	Factors affecting solar stills productivity and improvement techniques: A detailed review. <i>Applied Thermal Engineering</i> , 2016 , 100, 267-284	5.8	136
81	Extreme low thermal conductivity in nanoscale 3D Si phononic crystal with spherical pores. <i>Nano Letters</i> , 2014 , 14, 1734-8	11.5	128
80	Thermal transport in nanostructures. <i>AIP Advances</i> , 2012 , 2, 041410	1.5	113
79	A Revisit to High Thermoelectric Performance of Single-layer MoS ₂ . <i>Scientific Reports</i> , 2015 , 5, 18342	4.9	108
78	Energy and exergy analysis of solar stills with micro/nano particles: A comparative study. <i>Energy Conversion and Management</i> , 2018 , 177, 363-375	10.6	107
77	Thermal performance and exergy analysis of solar stills [A review]. <i>Renewable and Sustainable Energy Reviews</i> , 2017 , 73, 521-544	16.2	101
76	Non-Fourier heat conductions in nanomaterials. <i>Journal of Applied Physics</i> , 2011 , 110, 064310	2.5	91
75	A hybrid desalination system using humidification-dehumidification and solar stills integrated with evacuated solar water heater. <i>Energy Conversion and Management</i> , 2016 , 124, 287-296	10.6	90
74	Thermal transport in graphene with defect and doping: Phonon modes analysis. <i>Carbon</i> , 2017 , 116, 139-144	14.4	86
73	Nano-cross-junction effect on phonon transport in silicon nanowire cages. <i>Physical Review B</i> , 2016 , 94,	3.3	84

72	How does folding modulate thermal conductivity of graphene?. <i>Applied Physics Letters</i> , 2012 , 100, 0931074	7.4	72
71	A continuous desalination system using humidification & dehumidification and a solar still with an evacuated solar water heater. <i>Applied Thermal Engineering</i> , 2016 , 104, 734-742	5.8	71
70	Augmentation of a pyramid solar still performance using evacuated tubes and nanofluid: Experimental approach. <i>Applied Thermal Engineering</i> , 2019 , 160, 113997	5.8	68
69	Significant reduction of graphene thermal conductivity by phononic crystal structure. <i>International Journal of Heat and Mass Transfer</i> , 2015 , 91, 428-432	4.9	66
68	New hydrogel materials for improving solar water evaporation, desalination and wastewater treatment: A review. <i>Desalination</i> , 2020 , 491, 114564	10.3	66
67	Extremely High Thermal Conductivity of Aligned Carbon Nanotube-Polyethylene Composites. <i>Scientific Reports</i> , 2015 , 5, 16543	4.9	63
66	Low-cost high-efficiency solar steam generator by combining thin film evaporation and heat localization: Both experimental and theoretical study. <i>Applied Thermal Engineering</i> , 2018 , 143, 1079-1084	5.8	60
65	Materials Discovery and Properties Prediction in Thermal Transport via Materials Informatics: A Mini Review. <i>Nano Letters</i> , 2019 , 19, 3387-3395	11.5	55
64	Modulation of thermal conductivity in kinked silicon nanowires: phonon interchanging and pinching effects. <i>Nano Letters</i> , 2013 , 13, 1670-4	11.5	54
63	Thermal Interface Conductance Between Aluminum and Silicon by Molecular Dynamics Simulations. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015 , 12, 168-174	0.3	54
62	Performance enhancement of wick solar still using rejected water from humidification-dehumidification unit and film cooling. <i>Applied Thermal Engineering</i> , 2016 , 108, 1268-1278	5.8	51
61	Unexpected thermal conductivity enhancement in pillared graphene nanoribbon with isotopic resonance. <i>Physical Review B</i> , 2018 , 98,	3.3	50
60	Profiling nanowire thermal resistance with a spatial resolution of nanometers. <i>Nano Letters</i> , 2014 , 14, 806-12	11.5	47
59	Generalized Two-Temperature Model for Coupled Phonons in Nanosized Graphene. <i>Nano Letters</i> , 2017 , 17, 5805-5810	11.5	46
58	Enhancing the Thermoelectric Figure of Merit by Low-Dimensional Electrical Transport in Phonon-Glass Crystals. <i>Nano Letters</i> , 2015 , 15, 5229-34	11.5	45
57	Thermal Transport in Soft PAAm Hydrogels. <i>Polymers</i> , 2017 , 9,	4.5	45
56	Reduction of thermal conductivity by nanoscale 3D phononic crystal. <i>Scientific Reports</i> , 2013 , 3, 1143	4.9	39
55	High efficient solar evaporation by airing multifunctional textile. <i>International Journal of Heat and Mass Transfer</i> , 2020 , 147, 118866	4.9	39

54	Nanoconfinement-Induced Giant Electrocaloric Effect in Ferroelectric Polymer Nanowire Array Integrated with Aluminum Oxide Membrane to Exhibit Record Cooling Power Density. <i>Advanced Materials</i> , 2019 , 31, e1806642	24	39
53	Adjustable thermal resistor by reversibly folding a graphene sheet. <i>Nanoscale</i> , 2016 , 8, 14943-9	7.7	38
52	High Thermal Conductivity of Bulk Epoxy Resin by Bottom-Up Parallel-Linking and Strain: A Molecular Dynamics Study. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 13140-13147	3.8	37
51	Influence of basin metals and novel wick-metal chips pad on the thermal performance of solar desalination process. <i>Journal of Cleaner Production</i> , 2020 , 248, 119224	10.3	36
50	A Series Circuit of Thermal Rectifiers: An Effective Way to Enhance Rectification Ratio. <i>Small</i> , 2017 , 13, 1602726	11	35
49	Quantifying phonon particle and wave transport in silicon nanophononic metamaterial with cross junction. <i>Materials Today Physics</i> , 2019 , 8, 56-61	8	35
48	Unexpectedly high cross-plane thermoelectric performance of layered carbon nitrides. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 2114-2121	13	34
47	Ultra-fast vapor generation by a graphene nano-ratchet: a theoretical and simulation study. <i>Nanoscale</i> , 2017 , 9, 19066-19072	7.7	31
46	Unusual isotope effect on thermal transport of single layer molybdenum disulphide. <i>Applied Physics Letters</i> , 2015 , 107, 191907	3.4	30
45	Predictions of Thermo-Mechanical Properties of Cross-Linked Polyacrylamide Hydrogels Using Molecular Simulations. <i>Advanced Theory and Simulations</i> , 2019 , 2, 1800153	3.5	30
44	The roles of metal-organic frameworks in modulating water permeability of graphene oxide-based carbon membranes. <i>Carbon</i> , 2019 , 148, 277-289	10.4	28
43	A Review of Thermal Transport in Low-Dimensional Materials Under External Perturbation: Effect of Strain, Substrate, and Clustering. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2017 , 21, 201-236	3.7	27
42	The unexpected thermal conductivity from graphene disk, carbon nanocone to carbon nanotube. <i>International Journal of Heat and Mass Transfer</i> , 2017 , 108, 940-944	4.9	27
41	Superior thermal conductivity of poly (ethylene oxide) for solid-state electrolytes: A molecular dynamics study. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 137, 1241-1246	4.9	26
40	Understanding length dependences of effective thermal conductivity of nanowires. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2012 , 376, 3514-3517	2.3	24
39	Manipulating the temperature dependence of the thermal conductivity of graphene phononic crystal. <i>Nanotechnology</i> , 2016 , 27, 265702	3.4	23
38	Potential and challenges of improving solar still by micro/nano-particles and porous materials - A review. <i>Journal of Cleaner Production</i> , 2021 , 311, 127432	10.3	23
37	Mass difference and polarization lead to low thermal conductivity of graphene-like carbon nitride (C3N). <i>Carbon</i> , 2020 , 162, 202-208	10.4	21

36	Improved thermo-economic performance of solar desalination via copper chips, nanofluid, and nano-based phase change material. <i>Solar Energy</i> , 2021 , 224, 1313-1325	6.8	21
35	Hybrid Thermal Transport Characteristics of Doped Organic Semiconductor Poly(3,4-ethylenedioxythiophene):Tosylate. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 26735-26741	3.8	20
34	A Modified Theoretical Model to Accurately Account for Interfacial Roughness in Predicting the Interfacial Thermal Conductance. <i>Frontiers in Energy Research</i> , 2018 , 6,	3.8	19
33	Nanoscale Graphene Disk: A Natural Functionally Graded Material-How is Fourier's Law Violated along Radius Direction of 2D Disk. <i>Scientific Reports</i> , 2015 , 5, 14878	4.9	19
32	Role of Molecular Polarity in Thermal Transport of Boron Nitride-Organic Molecule Composites. <i>ACS Omega</i> , 2018 , 3, 12530-12534	3.9	19
31	Thermal boundary resistance measurement and analysis across SiC/SiO ₂ interface. <i>Applied Physics Letters</i> , 2019 , 115, 101603	3.4	18
30	Thermal conductivity of molybdenum disulfide nanotube from molecular dynamics simulations. <i>International Journal of Heat and Mass Transfer</i> , 2019 , 145, 118719	4.9	18
29	Performance assessment of solar PV-driven hybrid HDH-RO desalination system integrated with energy recovery units and solar collectors: Theoretical approach. <i>Energy Conversion and Management</i> , 2021 , 239, 114215	10.6	18
28	Efficiency enhancement on the solar steam generation by wick materials with wrapped graphene nanoparticles. <i>Applied Thermal Engineering</i> , 2019 , 161, 114195	5.8	17
27	Ultralow thermal conductance of the van der Waals interface between organic nanoribbons. <i>Materials Today Physics</i> , 2019 , 11, 100139	8	15
26	Thermoelectric properties of nanoscale three dimensional Si phononic crystals. <i>International Journal of Heat and Mass Transfer</i> , 2016 , 99, 102-106	4.9	15
25	Thermally-Responsive Hydrogels Poly(N-Isopropylacrylamide) as the Thermal Switch. <i>Journal of Physical Chemistry C</i> , 2019 , 123, 31003-31010	3.8	14
24	A cross-interface model for thermal transport across the interface between overlapped nanoribbons. <i>Physical Chemistry Chemical Physics</i> , 2019 , 21, 25072-25079	3.6	13
23	How Does van der Waals Confinement Enhance Phonon Transport?*. <i>Chinese Physics Letters</i> , 2021 , 38, 014401	1.8	12
22	Electric-field-induced modulation of thermal conductivity in poly(vinylidene fluoride). <i>Nano Energy</i> , 2021 , 82, 105749	17.1	11
21	Phonon weak couplings model and its applications: A revisit to two-temperature non-equilibrium transport. <i>Materials Today Physics</i> , 2021 , 16, 100305	8	11
20	Optimizing thermal transport in graphene nanoribbon based on phonon resonance hybridization. <i>Materials Today Physics</i> , 2021 , 20, 100445	8	11
19	A compact flat solar still with high performance. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 179, 121657	4.9	10

18	Reverse osmosis desalination systems powered by solar energy: Preheating techniques and brine disposal challenges [A detailed review]. <i>Energy Conversion and Management</i> , 2021 , 114971	10.6	9
17	Thermal conductivity of one-dimensional carbon-boron nitride van der Waals heterostructure: A molecular dynamics study. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 180, 121773	4.9	8
16	Enhancement of Interfacial Thermal Conductance of SiC by Overlapped Carbon Nanotubes and Intertube Atoms. <i>Journal of Heat Transfer</i> , 2017 , 139,	1.8	7
15	Reduction of interfacial thermal resistance of overlapped graphene by bonding carbon chains. <i>Chinese Physics B</i> , 2020 , 29, 126303	1.2	6
14	Graded thermal conductivity in 2D and 3D homogeneous hotspot systems. <i>Materials Today Physics</i> , 2022 , 22, 100605	8	4
13	Modulating the thermal conductivity of crystalline nylon by tuning hydrogen bonds through structure poling. <i>Journal of Materials Chemistry A</i> ,	13	4
12	Temperature-dependent thermal transport of single molecular junctions from semiclassical Langevin molecular dynamics. <i>Physical Review B</i> , 2021 , 104,	3.3	3
11	Efficient mechanical modulation of the phonon thermal conductivity of MoS nanowires.. <i>Nanoscale</i> , 2022 ,	7.7	2
10	An integrated thermoelectric heating-cooling system for air sterilization[a simulation study. <i>Materials Today Physics</i> , 2021 , 19, 100430	8	2
9	Thermal conductivities and mechanical properties of epoxy resin as a function of the degree of cross-linking. <i>International Journal of Heat and Mass Transfer</i> , 2021 , 180, 121821	4.9	2
8	Thermoelectric applications of chalcogenides 2020 , 31-56		1
7	Thermal transport of chalcogenides 2020 , 339-370		1
6	Enhancement of Thermal Conductivity of Polyvinyl Alcohol Membrane Using Nano-fiber. <i>MRS Advances</i> , 2017 , 2, 3651-3656	0.7	1
5	Maximization and minimization of interfacial thermal conductance by modulating the mass distribution of the interlayer. <i>Physical Review B</i> , 2021 , 103,	3.3	1
4	Electrospun Composite Gel Polymer Electrolytes with High Thermal Conductivity toward Wide Temperature Lithium Metal Batteries. <i>ACS Applied Energy Materials</i> , 2021 , 4, 8130-8141	6.1	1
3	Spontaneous Migration of Polyethylene Molecule Sheathed inside Single-Walled Carbon Nanotube for Nano-Heat Pipe. <i>Scientific Reports</i> , 2016 , 6, 26441	4.9	1
2	A study on the upper limit efficiency of solar still by optimizing the mass transfer. <i>Applied Thermal Engineering</i> , 2022 , 213, 118664	5.8	0
1	The Vacancy Effect on Thermal Interface Resistance between Aluminum and Silicon by Molecular Dynamics. <i>Materials Research Society Symposia Proceedings</i> , 2015 , 1753, 7		

