Lin Qiu

List of Publications by Year
in descending order

77	2,710	26	50
papers	citations	h-index	g-index
		218381	189595

78	78	78	2937
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Excellent heat transfer and phase transformation performance of erythritol/graphene composite phase change materials. Composites Part B: Engineering, 2022, 228, 109435.	5.9	52
2	Thermal conductance control of non-bonded interaction between loaded halogen molecules and carbon nanotubes: A molecular dynamics study. International Journal of Heat and Mass Transfer, 2022, 183, 122216.	2.5	5
3	Elaborate manipulation on CNT intertube heat transport by using a polymer knob. International Journal of Heat and Mass Transfer, 2022, 184, 122280.	2.5	8
4	Excellent heat transfer enhancement of CNT-metal interface by loading carbyne and metal nanowire into CNT. International Journal of Heat and Mass Transfer, 2022, 186, 122533.	2.5	12
5	Amorphous Co(OH)₂ nanocages achieving efficient photo-induced charge transfer for significant SERS activity. Journal of Materials Chemistry C, 2022, 10, 1632-1637.	2.7	8
6	Nanofilm. , 2022, , 161-204.		0
7	Experimental techniques overview. , 2022, , 19-45.		1
8	Thermal transport mechanism for different structure. , 2022, , 47-113.		0
9	Microwire, fiber, nanotube, and nanowire. , 2022, , 115-160.		0
10	Nanoporous bulk. , 2022, , 205-245.		0
11	Near-field radiation analysis and thermal contact radius determination in the thermal conductivity measurement based on SThM open-loop system. Applied Physics Letters, 2022, 120, .	1.5	6
12	Broad low-frequency phonon resonance for increased across-tube heat transport. Physical Review B, 2022, 105, .	1.1	5
13	Evaluation of thermal performance for bionic porous ceramic phase change material using micro-computed tomography and lattice Boltzmann method. International Journal of Thermal Sciences, 2022, 179, 107621.	2.6	13
14	Pore scale simulation for melting of composite phase change materials considering interfacial thermal resistance. Applied Thermal Engineering, 2022, 212, 118624.	3.0	7
15	Experimental Characterization and Model Verification of Thermal Conductivity from Mesoporous to Macroporous SiOC Ceramics. Journal of Thermal Science, 2021, 30, 465-476.	0.9	16
16	Thermal barrier effect from internal pore channels on thickened aluminum nanofilm. International Journal of Thermal Sciences, 2021, 162, 106781.	2.6	17
17	Interfacial heat transport in nano-carbon assemblies. Carbon, 2021, 178, 391-412.	5.4	52
18	A Neural Regression Model for Predicting Thermal Conductivity of CNT Nanofluids with Multiple Base Fluids. Journal of Thermal Science, 2021, 30, 1908-1916.	0.9	3

#	Article	IF	Citations
19	Research status of centrifugal granulation, physical heat recovery and resource utilization of blast furnace slags. Journal of Analytical and Applied Pyrolysis, 2021, 157, 105220.	2.6	36
20	Smart design of highâ€performance surfaceâ€enhanced Raman scattering substrates. SmartMat, 2021, 2, 466-487.	6.4	26
21	Theoretical Evaluation of Microwave Ablation Applied on Muscle, Fat and Bone: A Numerical Study. Applied Sciences (Switzerland), 2021, 11, 8271.	1.3	7
22	Thermal conductivity and phase change characteristics of hierarchical porous diamond/erythritol composite phase change materials. Energy, 2021, 233, 121158.	4.5	31
23	Bionic hierarchical porous aluminum nitride ceramic composite phase change material with excellent heat transfer and storage performance. Composites Communications, 2021, 27, 100892.	3.3	45
24	Freestanding Flexible Sensor Based on 3Ï‰ Technique for Anisotropic Thermal Conductivity Measurement of Potassium Dihydrogen Phosphate Crystal. Sensors, 2021, 21, 7968.	2.1	7
25	Inside Back Cover: Volume 2 Issue 4. SmartMat, 2021, 2, .	6.4	0
26	Three-Dimensional Graphene Hydrogel Decorated with SnO₂ for High-Performance NO₂ Sensing with Enhanced Immunity to Humidity. ACS Applied Materials & Interfaces, 2020, 12, 2634-2643.	4.0	70
27	A review of recent advances in thermophysical properties at the nanoscale: From solid state to colloids. Physics Reports, 2020, 843, 1-81.	10.3	344
28	Flexible, 3D SnS2/Reduced graphene oxide heterostructured NO2 sensor. Sensors and Actuators B: Chemical, 2020, 305, 127445.	4.0	91
29	Experimental study on particle flow characteristics of three-dimensional moving bed. Powder Technology, 2020, 374, 399-408.	2.1	11
30	In vivo skin thermophysical property testing technology using flexible thermosensor-based 3Ï‰ method. International Journal of Heat and Mass Transfer, 2020, 163, 120550.	2.5	17
31	Numerical simulation of gasâ€“solid heat transfer characteristics of porous structure composed of high-temperature particles in moving bed. Applied Thermal Engineering, 2020, 181, 115925.	3.0	20
32	Interfacial thermal transport properties of polyurethane/carbon nanotube hybrid composites. International Journal of Heat and Mass Transfer, 2020, 152, 119565.	2.5	23
33	Scanning thermal microscopy method for thermal conductivity measurement of a single SiO2 nanoparticle. International Journal of Heat and Mass Transfer, 2020, 154, 119750.	2.5	12
34	Shampoo assisted aligning of carbon nanotubes toward strong, stiff and conductive fibers. RSC Advances, 2020, 10, 18715-18720.	1.7	7
35	Study on heat transfer of process intensification in moving bed reactor based on the discrete element method. Chemical Engineering and Processing: Process Intensification, 2020, 151, 107915.	1.8	18
36	Effect of the loading amount and arrangement of iodine chains on the interfacial thermal transport of carbon nanotubes: a molecular dynamics study. RSC Advances, 2020, 10, 44196-44204.	1.7	8

#	Article	IF	Citations
37	Heat recovery process modelling of semi-molten blast furnace slag in a moving bed using XDEM. Energy, 2019, 186, 115876.	4.5	25
38	Three-Dimensional-Structured Boron- and Nitrogen-Doped Graphene Hydrogel Enabling High-Sensitivity NO₂ Detection at Room Temperature. ACS Sensors, 2019, 4, 1889-1898.	4.0	58
39	Three-dimensional fluid-solid coupling heat transfer simulation based on the multireference frame for a side-blown aluminum annealing furnace. Engineering Applications of Computational Fluid Mechanics, 2019, 13, 1036-1048.	1.5	3
40	Multifunctional and High-Sensitive Sensor Capable of Detecting Humidity, Temperature, and Flow Stimuli Using an Integrated Microheater. ACS Applied Materials & Interfaces, 2019, 11, 43383-43392.	4.0	64
41	Coating-boosted interfacial thermal transport for carbon nanotube array nano-thermal interface materials. Carbon, 2019, 145, 725-733.	5.4	50
42	Electro curing of oriented bismaleimide between aligned carbon nanotubes for high mechanical and thermal performances. Carbon, 2019, 145, 650-657.	5.4	52
43	Review on nanoporous composite phase change materials: Fabrication, characterization, enhancement and molecular simulation. Renewable and Sustainable Energy Reviews, 2019, 109, 578-605.	8.2	120
44	Review on micro/nano phase change materials for solar thermal applications. Renewable Energy, 2019, 140, 513-538.	4.3	185
45	Size effect on the thermal conductivity of octadecanoic acid: A molecular dynamics study. Computational Materials Science, 2019, 158, 14-19.	1.4	16
46	Enhancing the interfacial interaction of carbon nanotubes fibers by Au nanoparticles with improved performance of the electrical and thermal conductivity. Carbon, 2019, 141, 497-505.	5.4	136
47	Thermal conductivity characterization of three dimensional carbon nanotube network using freestanding sensor-based 3 Ï‰ technique. Surface and Coatings Technology, 2018, 345, 105-112.	2.2	16
48	Advances in thermal transport properties at nanoscale in China. International Journal of Heat and Mass Transfer, 2018, 125, 413-433.	2.5	31
49	Inhomogeneity in pore size appreciably lowering thermal conductivity for porous thermal insulators. Applied Thermal Engineering, 2018, 130, 1004-1011.	3.0	78
50	Note: Thermal conductivity measurement of individual porous polyimide fibers using a modified wire-shape 3<i>Ï‰</i> method. Review of Scientific Instruments, 2018, 89, 096112.	0.6	18
51	Numerical simulation and optimization of the melting process for the regenerative aluminum melting furnace. Applied Thermal Engineering, 2018, 145, 315-327.	3.0	25
52	Highly Conducting Polythiophene Thin Films with Less Ordered Microstructure Displaying Excellent Thermoelectric Performance. Macromolecular Rapid Communications, 2018, 39, e1800283.	2.0	21
53	Iodine nanoparticle-enhancing electrical and thermal transport for carbon nanotube fibers. Applied Thermal Engineering, 2018, 141, 913-920.	3.0	45
54	Advanced Thermal Interface Materials for Thermal Management. Engineered Science, 2018, , .	1.2	10

#	Article	IF	Citations
55	Extremely Low Thermal Conductivity of Graphene Nanoplatelets Using Nanoparticle Decoration. ES Energy & Environments, 2018, , .	0.5	17
56	Effect of growth temperature on the synthesis of carbon nanotube arrays and amorphous carbon for thermal applications. Physica Status Solidi (A) Applications and Materials Science, 2017, 214, 1600852.	0.8	20
57	Thermal transport barrier in carbon nanotube array nano-thermal interface materials. Carbon, 2017, 120, 128-136.	5.4	57
58	3Ï‰ slope comparative method for fluid and powder thermal conductivity measurements. Modern Physics Letters B, 2016, 30, 1650322.	1.0	3
59	Remarkably enhanced thermal transport based on a flexible horizontally-aligned carbon nanotube array film. Scientific Reports, 2016, 6, 21014.	1.6	68
60	Flexible nâ€Type Highâ€Performance Thermoelectric Thin Films of Poly(nickelâ€ethylenetetrathiolate) Prepared by an Electrochemical Method. Advanced Materials, 2016, 28, 3351-3358.	11.1	206
61	Functionalization and densification of inter-bundle interfaces for improvement in electrical and thermal transport of carbon nanotube fibers. Carbon, 2016, 105, 248-259.	5.4	64
62	Thermal Transport in High-Strength Polymethacrylimide (PMI) Foam Insulations. International Journal of Thermophysics, 2015, 36, 2523-2534.	1.0	15
63	Study on heat-storage and release characteristics of multi-cavity-structured phase-change microcapsules. Phase Transitions, 2015, 88, 704-715.	0.6	10
64	Adaptable thermal conductivity characterization of microporous membranes based on freestanding sensor-based 3Ï‰ technique. International Journal of Thermal Sciences, 2015, 89, 185-192.	2.6	22
65	Study on the thermal resistance in secondary particles chain of silica aerogel by molecular dynamics simulation. Journal of Applied Physics, 2014, 116, .	1.1	10
66	The Effective Thermal Conductivity of Porous Polymethacrylimide Foams. Key Engineering Materials, 2014, 609-610, 196-200.	0.4	2
67	Thermal-Conductivity Studies of Macro-porous Polymer-Derived SiOC Ceramics. International Journal of Thermophysics, 2014, 35, 76-89.	1.0	49
68	Effective Thermal-Conductivity Measurement on Germanate Glassâ€“Ceramics Employing the $$3omega $$ 3 Ï‰ Method at High Temperature. International Journal of Thermophysics, 2014, 35, 336-345.	1.0	3
69	Effects of thermal efficiency in DCMD and the preparation of membranes with low thermal conductivity. Applied Surface Science, 2014, 317, 338-349.	3.1	35
70	Measurement of Thermal Conductivity of Anisotropic SiC Crystal. International Journal of Thermophysics, 2013, 34, 2334-2342.	1.0	15
71	Design and Application of a Freestanding Sensor Based on 3Ï‰ Technique for Thermal-Conductivity Measurement of Solids, Liquids, and Nanopowders. International Journal of Thermophysics, 2013, 34, 2261-2275.	1.0	25
72	The effect of grain size on the lattice thermal conductivity of an individual polyacrylonitrile-based carbon fiber. Carbon, 2013, 51, 265-273.	5.4	62

#	Article	IF	Citations
73	Measurement of thermal conductivities of [mmim]DMP/CH3OH and [mmim]DMP/H2O by freestanding sensor-based 3Ï‰ technique. Thermochimica Acta, 2013, 560, 1-6.	1.2	19
74	Study on the heat conduction of phase-change material microcapsules. Journal of Thermal Science, 2013, 22, 257-260.	0.9	8
75	Thermal conductivity and thermal diffusivity of SiO2 nanopowder. Journal of Nanoparticle Research, 2011, 13, 6887-6893.	0.8	25
76	The freestanding sensor-based 3Ï‰ technique for measuring thermal conductivity of solids: Principle and examination. Review of Scientific Instruments, 2011, 82, 045106.	0.6	30
77	Note: Non-destructive measurement of thermal effusivity of a solid and liquid using a freestanding serpentine sensor-based 3<i>Ï‰</i> technique. Review of Scientific Instruments, 2011, 82, 086110.	0.6	14