Lin Qiu

List of Publications by Year
in descending order

77 papers	2,710 citations	218381 26 h-index	189595 50 g-index
78 all docs	78 docs citations	78 times ranked	2937 citing authors

#	Article	IF	Citations
1	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
2	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
3	Review on micro/nano phase change materials for solar thermal applications. Renewable Energy, 2019, 140, 513-538.	4.3	185
4	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
5	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
6	Flexible, 3D SnS2/Reduced graphene oxide heterostructured NO2 sensor. Sensors and Actuators B: Chemical, 2020, 305, 127445.	4.0	91
7	Inhomogeneity in pore size appreciably lowering thermal conductivity for porous thermal insulators. Applied Thermal Engineering, 2018, 130, 1004-1011.	3.0	78
8	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
9	Remarkably enhanced thermal transport based on a flexible horizontally-aligned carbon nanotube array film. Scientific Reports, 2016, 6, 21014.	1.6	68
10	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
11	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
12	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
13	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
14	Thermal transport barrier in carbon nanotube array nano-thermal interface materials. Carbon, 2017, 120, 128-136.	5.4	57
15	Electro curing of oriented bismaleimide between aligned carbon nanotubes for high mechanical and thermal performances. Carbon, 2019, 145, 650-657.	5.4	52
16	Interfacial heat transport in nano-carbon assemblies. Carbon, 2021, 178, 391-412.	5.4	52
17	Excellent heat transfer and phase transformation performance of erythritol/graphene composite phase change materials. Composites Part B: Engineering, 2022, 228, 109435.	5.9	52
18	Coating-boosted interfacial thermal transport for carbon nanotube array nano-thermal interface materials. Carbon, 2019, 145, 725-733.	5.4	50

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19	Thermal-Conductivity Studies of Macro-porous Polymer-Derived SiOC Ceramics. International Journal of Thermophysics, 2014, 35, 76-89.	1.0	49
20	Iodine nanoparticle-enhancing electrical and thermal transport for carbon nanotube fibers. Applied Thermal Engineering, 2018, 141, 913-920.	3.0	45
21	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
22	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
23	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
24	Advances in thermal transport properties at nanoscale in China. International Journal of Heat and Mass Transfer, 2018, 125, 413-433.	2.5	31
25	Thermal conductivity and phase change characteristics of hierarchical porous diamond/erythritol composite phase change materials. Energy, 2021, 233, 121158.	4.5	31
26	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
27	Smart design of highâ€performance surfaceâ€enhanced Raman scattering substrates. SmartMat, 2021, 2, 466-487.	6.4	26
28	Thermal conductivity and thermal diffusivity of SiO2 nanopowder. Journal of Nanoparticle Research, 2011, 13, 6887-6893.	0.8	25
29	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
30	Numerical simulation and optimization of the melting process for the regenerative aluminum melting furnace. Applied Thermal Engineering, 2018, 145, 315-327.	3.0	25
31	Heat recovery process modelling of semi-molten blast furnace slag in a moving bed using XDEM. Energy, 2019, 186, 115876.	4.5	25
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	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
34	Highly Conducting Polythiophene Thin Films with Less Ordered Microstructure Displaying Excellent Thermoelectric Performance. Macromolecular Rapid Communications, 2018, 39, e1800283.	2.0	21
35	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
36	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

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37	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
38	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
39	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
40	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
41	Thermal barrier effect from internal pore channels on thickened aluminum nanofilm. International Journal of Thermal Sciences, 2021, 162, 106781.	2.6	17
42	Extremely Low Thermal Conductivity of Graphene Nanoplatelets Using Nanoparticle Decoration. ES Energy & Environments, 2018, , .	0.5	17
43	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
44	Size effect on the thermal conductivity of octadecanoic acid: A molecular dynamics study. Computational Materials Science, 2019, 158, 14-19.	1.4	16
45	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
46	Measurement of Thermal Conductivity of Anisotropic SiC Crystal. International Journal of Thermophysics, 2013, 34, 2334-2342.	1.0	15
47	Thermal Transport in High-Strength Polymethacrylimide (PMI) Foam Insulations. International Journal of Thermophysics, 2015, 36, 2523-2534.	1.0	15
48	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
49	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
50	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
51	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
52	Experimental study on particle flow characteristics of three-dimensional moving bed. Powder Technology, 2020, 374, 399-408.	2.1	11
53	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
54	Study on heat-storage and release characteristics of multi-cavity-structured phase-change microcapsules. Phase Transitions, 2015, 88, 704-715.	0.6	10

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55	Advanced Thermal Interface Materials for Thermal Management. Engineered Science, 2018, , .	1.2	10
56	Study on the heat conduction of phase-change material microcapsules. Journal of Thermal Science, 2013, 22, 257-260.	0.9	8
57	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
58	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
59	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
60	Shampoo assisted aligning of carbon nanotubes toward strong, stiff and conductive fibers. RSC Advances, 2020, 10, 18715-18720.	1.7	7
61	Theoretical Evaluation of Microwave Ablation Applied on Muscle, Fat and Bone: A Numerical Study. Applied Sciences (Switzerland), 2021, 11, 8271.	1.3	7
62	Freestanding Flexible Sensor Based on 3Ï‰ Technique for Anisotropic Thermal Conductivity Measurement of Potassium Dihydrogen Phosphate Crystal. Sensors, 2021, 21, 7968.	2.1	7
63	Pore scale simulation for melting of composite phase change materials considering interfacial thermal resistance. Applied Thermal Engineering, 2022, 212, 118624.	3.0	7
64	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
65	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
66	Broad low-frequency phonon resonance for increased across-tube heat transport. Physical Review B, 2022, 105, .	1.1	5
67	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
68	3Ï‰ slope comparative method for fluid and powder thermal conductivity measurements. Modern Physics Letters B, 2016, 30, 1650322.	1.0	3
69	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
70	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
71	The Effective Thermal Conductivity of Porous Polymethacrylimide Foams. Key Engineering Materials, 2014, 609-610, 196-200.	0.4	2
72	Experimental techniques overview. , 2022, , 19-45.		1

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73	Nanofilm. , 2022, , 161-204.		0
74	Thermal transport mechanism for different structure. , 2022, , 47-113.		0
75	Microwire, fiber, nanotube, and nanowire. , 2022, , 115-160.		0
76	Nanoporous bulk. , 2022, , 205-245.		0
77	Inside Back Cover: Volume 2 Issue 4. SmartMat, 2021, 2, .	6.4	0