

Ping Zhang

List of Publications by Year in descending order

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57
papers

1,919
citations

331259

21
h-index

253896

43
g-index

57
all docs

57
docs citations

57
times ranked

2328
citing authors

#	ARTICLE	IF	CITATIONS
1	Carbon nanotube based biosensors. <i>Sensors and Actuators B: Chemical</i> , 2015, 207, 690-715.	4.0	407
2	Effective thermal conductivity of polymer composites: Theoretical models and simulation models. <i>International Journal of Heat and Mass Transfer</i> , 2018, 117, 358-374.	2.5	168
3	Conceptual analysis framework development to understand barriers of nanofluid commercialization. <i>Nano Energy</i> , 2022, 92, 106736.	8.2	106
4	Experimental characterization methods for thermal contact resistance: A review. <i>Applied Thermal Engineering</i> , 2018, 130, 1530-1548.	3.0	95
5	Multilayer in-plane graphene/hexagonal boron nitride heterostructures: Insights into the interfacial thermal transport properties. <i>International Journal of Heat and Mass Transfer</i> , 2020, 151, 119395.	2.5	95
6	A Theoretical Review on Interfacial Thermal Transport at the Nanoscale. <i>Small</i> , 2018, 14, 1702769.	5.2	83
7	Polyethylene glycol supported by phosphorylated polyvinyl alcohol/graphene aerogel as a high thermal stability phase change material. <i>Composites Part B: Engineering</i> , 2019, 179, 107545.	5.9	82
8	Thermal contact resistance of epoxy composites incorporated with nano-copper particles and the multi-walled carbon nanotubes. <i>Composites Part A: Applied Science and Manufacturing</i> , 2014, 57, 1-7.	3.8	66
9	Thermal Properties of Graphene Filled Polymer Composite Thermal Interface Materials. <i>Macromolecular Materials and Engineering</i> , 2017, 302, 1700068.	1.7	66
10	A high-precision instrumentation of measuring thermal contact resistance using reversible heat flux. <i>Experimental Thermal and Fluid Science</i> , 2014, 54, 204-211.	1.5	47
11	Synthesis of the polyethylene glycol solid-solid phase change materials with a functionalized graphene oxide for thermal energy storage. <i>Polymer Testing</i> , 2017, 63, 494-504.	2.3	47
12	Effect of surface roughness on thermal contact resistance of aluminium alloy. <i>Applied Thermal Engineering</i> , 2017, 121, 992-998.	3.0	41
13	In-plane thermal transport in black phosphorene/graphene layered heterostructures: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2018, 20, 21151-21162.	1.3	41
14	Effects of functionalization on energy storage properties and thermal conductivity of graphene/n-octadecane composite phase change materials. <i>Journal of Materials Science</i> , 2019, 54, 1488-1501.	1.7	36
15	Multiscale simulation of thermal contact resistance in electronic packaging. <i>International Journal of Thermal Sciences</i> , 2014, 83, 16-24.	2.6	33
16	Review of recent developments on pump-assisted two-phase flow cooling technology. <i>Applied Thermal Engineering</i> , 2019, 150, 811-823.	3.0	33
17	Effects of surface functionalization on thermal and mechanical properties of graphene/polyethylene glycol composite phase change materials. <i>Applied Surface Science</i> , 2019, 485, 402-412.	3.1	33
18	Step-stress accelerated testing of high-power LED lamps based on subsystem isolation method. <i>Microelectronics Reliability</i> , 2015, 55, 1784-1789.	0.9	32

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19	Enhanced the thermal conductivity of flexible copper foil by introducing graphene. <i>Materials and Design</i> , 2020, 187, 108373.	3.3	29
20	Preparation and thermal properties of the graphene-polyolefin adhesive composites: Application in thermal interface materials. <i>Microelectronics Reliability</i> , 2015, 55, 2569-2574.	0.9	28
21	A CMOS-Compatible Hybrid Plasmonic Slot Waveguide With Enhanced Field Confinement. <i>IEEE Electron Device Letters</i> , 2016, 37, 456-458.	2.2	22
22	Silver nanopaste: Synthesis, reinforcements and application. <i>International Journal of Heat and Mass Transfer</i> , 2018, 127, 1048-1069.	2.5	22
23	A hybrid prediction method on luminous flux maintenance of high-power LED lamps. <i>Applied Thermal Engineering</i> , 2016, 95, 482-490.	3.0	21
24	A contextual framework development toward triboelectric nanogenerator commercialization. <i>Nano Energy</i> , 2022, 101, 107572.	8.2	21
25	Experimental investigation of high temperature thermal contact resistance of thin disk samples using infrared camera in vacuum condition. <i>International Journal of Heat and Mass Transfer</i> , 2020, 157, 119749.	2.5	19
26	Thermally conductive and stretchable thermal interface materials prepared via vertical orientation of flake graphite. <i>Composites Communications</i> , 2021, 27, 100795.	3.3	18
27	Design and heat transfer analysis of a compound multi-layer insulations for use in high temperature cylinder thermal protection systems. <i>Science China Technological Sciences</i> , 2018, 61, 994-1002.	2.0	17
28	Modelling and analysis of effective thermal conductivity for polymer composites with sheet-like nanoparticles. <i>Journal of Materials Science</i> , 2019, 54, 356-369.	1.7	16
29	Re-estimation of thermal contact resistance considering near-field thermal radiation effect. <i>Applied Thermal Engineering</i> , 2019, 157, 113601.	3.0	16
30	Effects of High-Temperature Storage on the Elasticity Modulus of an Epoxy Molding Compound. <i>Materials</i> , 2019, 12, 684.	1.3	15
31	Numerical prediction of high temperature thermal contact resistance of HTA-C/ZrB ₂ -SiC with radiation effects. <i>International Communications in Heat and Mass Transfer</i> , 2021, 120, 105058.	2.9	14
32	Effect of monolayer graphene on the performance of near-field radiative thermal rectifier between doped silicon and vanadium dioxide. <i>International Journal of Heat and Mass Transfer</i> , 2020, 155, 119707.	2.5	14
33	Performance test of an ultra-thin flat heat pipe with a 0.2-mm thick vapor chamber. <i>Journal of Micromechanics and Microengineering</i> , 2019, 29, 115019.	1.5	13
34	Phonon transport in antisite-substituted hexagonal boron nitride nanosheets: A molecular dynamics study. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	12
35	A high-precision method to measure thermal conductivity of solids using reversible heat flux. <i>Measurement Science and Technology</i> , 2013, 24, 095004.	1.4	10
36	Research Progresses of Flash Evaporation in Aerospace Applications. <i>International Journal of Aerospace Engineering</i> , 2018, 2018, 1-15.	0.5	10

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37	Advanced Thermal Interface Materials for Thermal Management. Engineered Science, 2018, , .	1.2	10
38	Genetic Algorithm (GA)-Based Inclinometer Layout Optimization. Sensors, 2015, 15, 9136-9155.	2.1	9
39	Optical and Thermal Enhancement of Plasmonic Nanofluid Based on Core/Shell Nanoparticles. Plasmonics, 2018, 13, 1135-1141.	1.8	9
40	An experimental investigation of a 100-W high-power light-emitting diode array using vapor chamber-based plate. Advances in Mechanical Engineering, 2015, 7, 168781401562007.	0.8	8
41	Hybrid Plasmonics Slot THz Waveguide for Subwavelength Field Confinement and Crosstalk Between Two Waveguides. IEEE Journal of Selected Topics in Quantum Electronics, 2017, 23, 1-5.	1.9	8
42	Thermal Characteristic and Analysis of Microchannel Structure Flat Plate Pulsating Heat Pipe With Silver Nanofluid. IEEE Access, 2019, 7, 51724-51734.	2.6	8
43	Theoretical Prediction of Heat Transport in Few-Layer Graphene/Epoxy Composites. Macromolecular Research, 2018, 26, 978-983.	1.0	7
44	Junction Temperature Prediction for LED Luminaires Based on a Subsystem-Separated Thermal Modeling Method. IEEE Access, 2019, 7, 119755-119764.	2.6	7
45	Visualization of Thermo-Hydrodynamic Behavior in Flat-Plate Pulsating Heat Pipe with HFE-347. Journal of Thermal Science, 2021, 30, 926-938.	0.9	7
46	A numerical procedure for simulating thermal oxidation diffusion of epoxy molding compounds. Microelectronics Reliability, 2015, 55, 1877-1881.	0.9	5
47	Measurement method and instrument of thermal contact resistance at high temperature. Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica, 2019, 49, 491-500.	0.3	3
48	Interfacial thermal conductance of BP/MoS2 van der Waals heterostructures: An insight from the phonon transport. Surfaces and Interfaces, 2022, 32, 102119.	1.5	3
49	Effects of stress-loading test methods on the degradation of light-emitting diode modules. Microelectronics Reliability, 2016, 64, 635-639.	0.9	2
50	Influence of Pressure on the Mechanical and Electronic Properties of Wurtzite and Zinc-Blende GaN Crystals. Crystals, 2018, 8, 428.	1.0	2
51	Effect of different evacuation pressures on thermal performance of vertically placed flat-plate pulsating heat pipe. Experimental Heat Transfer, 2022, 35, 223-238.	2.3	1
52	Effects of High-Temperature Storage on the Glass Transition Temperature of Epoxy Molding Compound. Journal of Electronic Packaging, Transactions of the ASME, 2021, 143, .	1.2	1
53	Theoretical and experimental study on a compound insulation system for high temperature applications. Applied Thermal Engineering, 2022, 210, 118318.	3.0	1
54	Influence of microstructure inhomogeneity on the electromigration behavior of flip chip solder joints. , 2016, , .		0

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55	Design and analysis of video information transmission system based on visible LED light communication. , 2016, , .		0
56	The Preparation of Ag Nanopaste with Silver-Plated Diamond by Low-Temperature Pressureless Sintering. Journal of Nanoelectronics and Optoelectronics, 2021, 16, 933-940.	0.1	0
57	Surface modification of graphite and its effect on thermal and mechanical properties of graphite-based thermal interface materials. , 2021, , .		0