

Ping Zhang

List of Publications by Citations

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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.

51
papers

1,190
citations

18
h-index

34
g-index

57
ext. papers

1,538
ext. citations

4.5
avg. IF

4.93
L-index

#	Paper	IF	Citations
51	Carbon nanotube based biosensors. <i>Sensors and Actuators B: Chemical</i> , 2015 , 207, 690-715	8.5	321
50	Effective thermal conductivity of polymer composites: Theoretical models and simulation models. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 117, 358-374	4.9	107
49	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	10	56
48	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	8.4	54
47	A Theoretical Review on Interfacial Thermal Transport at the Nanoscale. <i>Small</i> , 2018 , 14, 1702769	11	54
46	Thermal Properties of Graphene Filled Polymer Composite Thermal Interface Materials. <i>Macromolecular Materials and Engineering</i> , 2017 , 302, 1700068	3.9	48
45	Experimental characterization methods for thermal contact resistance: A review. <i>Applied Thermal Engineering</i> , 2018 , 130, 1530-1548	5.8	46
44	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	4.5	40
43	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	4.9	36
42	Conceptual analysis framework development to understand barriers of nanofluid commercialization. <i>Nano Energy</i> , 2021 , 92, 106736	17.1	35
41	A high-precision instrumentation of measuring thermal contact resistance using reversible heat flux. <i>Experimental Thermal and Fluid Science</i> , 2014 , 54, 204-211	3	33
40	Step-stress accelerated testing of high-power LED lamps based on subsystem isolation method. <i>Microelectronics Reliability</i> , 2015 , 55, 1784-1789	1.2	32
39	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	4.3	26
38	Effect of surface roughness on thermal contact resistance of aluminium alloy. <i>Applied Thermal Engineering</i> , 2017 , 121, 992-998	5.8	23
37	Preparation and thermal properties of the graphene/polyolefin adhesive composites: Application in thermal interface materials. <i>Microelectronics Reliability</i> , 2015 , 55, 2569-2574	1.2	21
36	In-plane thermal transport in black phosphorene/graphene layered heterostructures: a molecular dynamics study. <i>Physical Chemistry Chemical Physics</i> , 2018 , 20, 21151-21162	3.6	21
35	Multiscale simulation of thermal contact resistance in electronic packaging. <i>International Journal of Thermal Sciences</i> , 2014 , 83, 16-24	4.1	21

34	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	6.7	19
33	A hybrid prediction method on luminous flux maintenance of high-power LED lamps. <i>Applied Thermal Engineering</i> , 2016 , 95, 482-490	5.8	18
32	Review of recent developments on pump-assisted two-phase flow cooling technology. <i>Applied Thermal Engineering</i> , 2019 , 150, 811-823	5.8	17
31	Enhanced the thermal conductivity of flexible copper foil by introducing graphene. <i>Materials and Design</i> , 2020 , 187, 108373	8.1	16
30	A CMOS-Compatible Hybrid Plasmonic Slot Waveguide With Enhanced Field Confinement. <i>IEEE Electron Device Letters</i> , 2016 , 37, 456-458	4.4	13
29	Modelling and analysis of effective thermal conductivity for polymer composites with sheet-like nanoparticles. <i>Journal of Materials Science</i> , 2019 , 54, 356-369	4.3	10
28	A high-precision method to measure thermal conductivity of solids using reversible heat flux. <i>Measurement Science and Technology</i> , 2013 , 24, 095004	2	10
27	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	4.9	10
26	Silver nanopaste: Synthesis, reinforcements and application. <i>International Journal of Heat and Mass Transfer</i> , 2018 , 127, 1048-1069	4.9	9
25	Advanced Thermal Interface Materials for Thermal Management. <i>Engineered Science</i> , 2018 ,	3.8	9
24	Hybrid Plasmonics Slot THz Waveguide for Subwavelength Field Confinement and Crosstalk Between Two Waveguides. <i>IEEE Journal of Selected Topics in Quantum Electronics</i> , 2017 , 23, 1-5	3.8	7
23	Genetic Algorithm (GA)-Based Inclinometer Layout Optimization. <i>Sensors</i> , 2015 , 15, 9136-55	3.8	6
22	Optical and Thermal Enhancement of Plasmonic Nanofluid Based on Core/Shell Nanoparticles. <i>Plasmonics</i> , 2018 , 13, 1135-1141	2.4	6
21	Re-estimation of thermal contact resistance considering near-field thermal radiation effect. <i>Applied Thermal Engineering</i> , 2019 , 157, 113601	5.8	5
20	Effects of High-Temperature Storage on the Elasticity Modulus of an Epoxy Molding Compound. <i>Materials</i> , 2019 , 12,	3.5	5
19	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	4.9	5
18	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	3.5	5
17	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	2	5

16	An experimental investigation of a 100-W high-power light-emitting diode array using vapor chamber based plate. <i>Advances in Mechanical Engineering</i> , 2015 , 7, 168781401562007	1.2	5
15	Research Progresses of Flash Evaporation in Aerospace Applications. <i>International Journal of Aerospace Engineering</i> , 2018 , 2018, 1-15	0.9	5
14	Thermally conductive and stretchable thermal interface materials prepared via vertical orientation of flake graphite. <i>Composites Communications</i> , 2021 , 27, 100795	6.7	5
13	Thermal Characteristic and Analysis of Microchannel Structure Flat Plate Pulsating Heat Pipe With Silver Nanofluid. <i>IEEE Access</i> , 2019 , 7, 51724-51734	3.5	4
12	Theoretical Prediction of Heat Transport in Few-Layer Graphene/Epoxy Composites. <i>Macromolecular Research</i> , 2018 , 26, 978-983	1.9	4
11	Junction Temperature Prediction for LED Luminaires Based on a Subsystem-Separated Thermal Modeling Method. <i>IEEE Access</i> , 2019 , 7, 119755-119764	3.5	3
10	A numerical procedure for simulating thermal oxidation diffusion of epoxy molding compounds. <i>Microelectronics Reliability</i> , 2015 , 55, 1877-1881	1.2	3
9	Measurement method and instrument of thermal contact resistance at high temperature. <i>Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica</i> , 2019 , 49, 491-500	1.3	3
8	Phonon transport in antisite-substituted hexagonal boron nitride nanosheets: A molecular dynamics study. <i>Journal of Applied Physics</i> , 2020 , 128, 234304	2.5	3
7	Effects of stress-loading test methods on the degradation of light-emitting diode modules. <i>Microelectronics Reliability</i> , 2016 , 64, 635-639	1.2	2
6	Visualization of Thermo-Hydrodynamic Behavior in Flat-Plate Pulsating Heat Pipe with HFE-347. <i>Journal of Thermal Science</i> , 2021 , 30, 926-938	1.9	2
5	Numerical prediction of high temperature thermal contact resistance of HTA α /ZrB ₂ -SiC with radiation effects. <i>International Communications in Heat and Mass Transfer</i> , 2021 , 120, 105058	5.8	1
4	Influence of Pressure on the Mechanical and Electronic Properties of Wurtzite and Zinc-Blende GaN Crystals. <i>Crystals</i> , 2018 , 8, 428	2.3	0
3	Theoretical and experimental study on a compound insulation system for high temperature applications. <i>Applied Thermal Engineering</i> , 2022 , 210, 118318	5.8	0
2	Effect of different evacuation pressures on thermal performance of vertically placed flat-plate pulsating heat pipe. <i>Experimental Heat Transfer</i> , 2020 , 1-16	2.4	
1	The Preparation of Ag Nanopaste with Silver-Plated Diamond by Low-Temperature Pressureless Sintering. <i>Journal of Nanoelectronics and Optoelectronics</i> , 2021 , 16, 933-940	1.3	