

Haoxue Han

List of Publications by Year in descending order

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29
papers

792
citations

623574

14
h-index

677027

22
g-index

29
all docs

29
docs citations

29
times ranked

1028
citing authors

#	ARTICLE	IF	CITATIONS
1	Heat transport through nanoscale gaps—A perspective. <i>Journal of Applied Physics</i> , 2020, 128, .	1.1	4
2	Multiscale Modeling of Heat Dissipation in 2D Transistors Based on Phosphorene and Silicene. <i>Journal of Physical Chemistry C</i> , 2018, 122, 2641-2647.	1.5	24
3	Thermal Transport at Solid—Liquid Interfaces: High Pressure Facilitates Heat Flow through Nonlocal Liquid Structuring. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1946-1951.	2.1	55
4	Thermal transport at a solid—nanofluid interface: from increase of thermal resistance towards a shift of rapid boiling. <i>Nanoscale</i> , 2017, 9, 8314-8320.	2.8	29
5	Solid—Liquid Interface Thermal Resistance Affects the Evaporation Rate of Droplets from a Surface: A Study of Perfluorohexane on Chromium Using Molecular Dynamics and Continuum Theory. <i>Langmuir</i> , 2017, 33, 5336-5343.	1.6	31
6	Impeded thermal transport in composition graded SiGe nanowires. <i>Applied Physics Letters</i> , 2017, 111, .	1.5	21
7	Phonon-interference resonance effects by nanoparticles embedded in a matrix. <i>Physical Review B</i> , 2017, 96, .	1.1	24
8	Effects of phonon interference through long range interatomic bonds on thermal interface conductance. <i>Low Temperature Physics</i> , 2016, 42, 711-716.	0.2	10
9	Optimized few layer graphene for heat spreading. , 2016, , .		0
10	2D heat dissipation materials for microelectronics cooling applications. , 2016, , .		3
11	Long-range interatomic forces can minimize heat transfer: From slowdown of longitudinal optical phonons to thermal conductivity minimum. <i>Physical Review B</i> , 2016, 94, .	1.1	5
12	Blocking Phonon Transport by Structural Resonances in Alloy-Based Nanophononic Metamaterials Leads to Ultralow Thermal Conductivity. <i>Physical Review Letters</i> , 2016, 117, 025503.	2.9	153
13	Functionalization mediates heat transport in graphene nanoflakes. <i>Nature Communications</i> , 2016, 7, 11281.	5.8	123
14	Optimized few layer graphene for heat spreading. , 2016, , .		0
15	Improved Heat Spreading Performance of Functionalized Graphene in Microelectronic Device Application. <i>Advanced Functional Materials</i> , 2015, 25, 4430-4435.	7.8	117
16	Nanoscale Azide Polymer Functionalization: A Robust Solution for Suppressing the Carbon Nanotube—Polymer Matrix Thermal Interface Resistance. <i>Journal of Physical Chemistry C</i> , 2015, 119, 12193-12198.	1.5	32
17	Phonon Interference and Energy Transport in Nonlinear Lattices with Resonance Defects. <i>Springer Series in Materials Science</i> , 2015, , 247-263.	0.4	4
18	Ultracompact Interference Phonon Nanocapacitor for Storage and Lasing of Coherent Terahertz Lattice Waves. <i>Physical Review Letters</i> , 2015, 114, 145501.	2.9	51

#	ARTICLE	IF	CITATIONS
19	Enhanced heat spreader based on few-layer graphene intercalated with silane-functionalization molecules. , 2014, , .		1
20	Phonon interference and thermal conductance reduction in atomic-scale metamaterials. Physical Review B, 2014, 89, .	1.1	47
21	EQUILIBRIUM MOLECULAR DYNAMICS SIMULATIONS ON INTERFACIAL PHONON TRANSPORT. Annual Review of Heat Transfer, 2014, 17, 147-176.	0.3	24
22	Monitoring Heat Conduction in Nanostructures with Embedded Planar Defects. , 2014, , .		0
23	Bandpass waveguide in 3D diamond structure EBG fabricated by stereolithography and gel casting. Microwave and Optical Technology Letters, 2013, 55, 1145-1149.	0.9	1
24	Tunable three-dimensional diamond photonic crystal made of a liquid medium. Applied Physics Letters, 2013, 102, 154102.	1.5	5
25	Broadband gradient refractive index planar lens based on a compound liquid medium. Journal of Applied Physics, 2012, 112, .	1.1	17
26	The Influence of Cavity defect Shapes on Resonant Peak of Three-dimensional Electromagnetic Band Gap Structure. International Journal of Applied Ceramic Technology, 2012, 9, 953-959.	1.1	0
27	Diamond-Structured Photonic Crystals with Graded Air Spheres Radii. Materials, 2012, 5, 851-856.	1.3	2
28	Ultra-wide bandgap of gradient dielectric constant photonic crystal. Materials Letters, 2012, 79, 48-50.	1.3	9
29	Study on the Microwave Transmission Characteristics of a Three-Dimensional Electromagnetic Bandgap Structure with Coupled Defects. Journal of Electronic Materials, 2012, 41, 514-518.	1.0	0