

Yanguang Zhou

List of Publications by Year in Descending Order

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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.

42
papers

697
citations

16
h-index

25
g-index

44
ext. papers

846
ext. citations

5.9
avg. IF

4.83
L-index

#	Paper	IF	Citations
42	Origin of the weakly temperature-dependent thermal conductivity in ZIF-4 and ZIF-62. <i>Physical Review Materials</i> , 2022 , 6,	3.2	1
41	Broadly manipulating the interfacial thermal energy transport across the Si/4H-SiC interfaces via nanopatterns. <i>International Journal of Heat and Mass Transfer</i> , 2022 , 187, 122499	4.9	4
40	Thermal Management Modeling for EGa2O3-Highly Thermal Conductivity Substrates Heterostructures. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , 2022 , 1-1	1.7	2
39	Elevated barrier height originated from electric dipole effect and improved breakdown characteristics in PtOx/EGa2O3 Schottky barrier diodes. <i>Journal Physics D: Applied Physics</i> , 2022 , 55, 304003	3	0
38	Thermal boundary conductance across Co/Cu interfaces with spin-lattice interactions. <i>Journal of Applied Physics</i> , 2021 , 130, 235108	2.5	2
37	Quantitatively predicting modal thermal conductivity of nanocrystalline Si by full-band Monte Carlo simulations. <i>Physical Review B</i> , 2021 , 104,	3.3	3
36	The effective regulation of nanotwinning on the multichannel thermal transport in hybrid organic-inorganic halide perovskite. <i>Nano Energy</i> , 2021 , 82, 105747	17.1	5
35	Thermal transfer in amorphous superionic Li2S. <i>Physical Review B</i> , 2021 , 103,	3.3	3
34	Assessing the quantum effect in classical thermal conductivity of amorphous silicon. <i>Journal of Applied Physics</i> , 2021 , 129, 235104	2.5	6
33	Probing the phonon mean free paths in dislocation core by molecular dynamics simulation. <i>Journal of Applied Physics</i> , 2021 , 129, 055103	2.5	5
32	Vibrational modes with long mean free path and large volumetric heat capacity drive higher thermal conductivity in amorphous zeolitic imidazolate Framework-4. <i>Materials Today Physics</i> , 2021 , 21, 100516	8	3
31	Phonon scattering in the complex strain field of a dislocation in PbTe. <i>Journal of Materials Chemistry C</i> , 2021 , 9, 8506-8514	7.1	3
30	Atomistic simulation of phonon and magnon thermal transport across the ferromagnetic-paramagnetic transition. <i>Physical Review B</i> , 2020 , 101,	3.3	8
29	Highly Thermo-Conductive Three-Dimensional Graphene Aqueous Medium. <i>Nano-Micro Letters</i> , 2020 , 12, 138	19.5	3
28	Molecular dynamics simulations of the effect of dislocations on the thermal conductivity of iron. <i>Journal of Applied Physics</i> , 2020 , 127, 045106	2.5	5
27	Strong phonon localization in PbTe with dislocations and large deviation to Matthiessen's rule. <i>Npj Computational Materials</i> , 2019 , 5,	10.9	19
26	Extremely Low Thermal Conductivity of Polycrystalline Silicene. <i>Journal of Physical Chemistry C</i> , 2018 , 122, 9220-9228	3.8	16

25	Strong anharmonic phonon scattering induced giant reduction of thermal conductivity in PbTe nanotwin boundary. <i>Physical Review B</i> , 2018 , 97,	3.3	23
24	Methodology Perspective of Computing Thermal Transport in Low-Dimensional Materials and Nanostructures: The Old and the New. <i>ACS Omega</i> , 2018 , 3, 3278-3284	3.9	8
23	Thermal transport crossover from crystalline to partial-crystalline partial-liquid state. <i>Nature Communications</i> , 2018 , 9, 4712	17.4	23
22	Two-Channel Thermal Transport in Ordered-Disordered Superionic AgTe and Its Traditionally Contradictory Enhancement by Nanotwin Boundary. <i>Journal of Physical Chemistry Letters</i> , 2018 , 9, 5704-5709	6.4	5
21	Enormous suppression of phonon transport in silicon nanowires with five-fold twin boundary. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 18533-18542	13	9
20	Nonmonotonic Diameter Dependence of Thermal Conductivity of Extremely Thin Si Nanowires: Competition between Hydrodynamic Phonon Flow and Boundary Scattering. <i>Nano Letters</i> , 2017 , 17, 1269-1276	11.5	45
19	Full quantification of frequency-dependent interfacial thermal conductance contributed by two- and three-phonon scattering processes from nonequilibrium molecular dynamics simulations. <i>Physical Review B</i> , 2017 , 95,	3.3	44
18	Mechanical behaviors of nanocrystalline Cu/SiC composites: An atomistic investigation. <i>Computational Materials Science</i> , 2017 , 129, 129-136	3.2	15
17	Giant reduction in thermal conductivity of extended type-I silicon clathrates and prominent thermal effect of 6d guest Wyckoff positions. <i>Journal of Materials Chemistry C</i> , 2017 , 5, 10578-10588	7.1	13
16	First-principles and molecular dynamics study of thermoelectric transport properties of N-type silicon-based superlattice-nanocrystalline heterostructures. <i>Journal of Applied Physics</i> , 2017 , 122, 085105	2.5	11
15	Decouple electronic and phononic transport in nanotwinned structures: a new strategy for enhancing the figure-of-merit of thermoelectrics. <i>Nanoscale</i> , 2017 , 9, 9987-9996	7.7	23
14	Unprecedented mechanical response of the lattice thermal conductivity of auxetic carbon crystals. <i>Carbon</i> , 2017 , 122, 374-380	10.4	7
13	Boundary scattering effect on the thermal conductivity of nanowires. <i>Semiconductor Science and Technology</i> , 2016 , 31, 074004	1.8	7
12	An excellent candidate for largely reducing interfacial thermal resistance: a nano-confined mass graded interface. <i>Nanoscale</i> , 2016 , 8, 1994-2002	7.7	44
11	The typical manners of dynamic crack propagation along the metal/ceramics interfaces: A molecular dynamics study. <i>Computational Materials Science</i> , 2016 , 112, 27-33	3.2	23
10	The morphology of graphene on a non-developable concave substrate. <i>Applied Physics Letters</i> , 2016 , 108, 031905	3.4	12
9	Tailoring thermal conductivity of AlN films by periodically aligned surface nano-grooves. <i>Applied Physics Letters</i> , 2016 , 109, 133107	3.4	1
8	Strong Surface Orientation Dependent Thermal Transport in Si Nanowires. <i>Scientific Reports</i> , 2016 , 6, 24903	4.9	16

7	Record Low Thermal Conductivity of Polycrystalline Si Nanowire: Breaking the Casimir Limit by Severe Suppression of Propagons. <i>Nano Letters</i> , 2016 , 16, 6178-6187	11.5	44
6	Effect of folded and crumpled morphologies of graphene oxide platelets on the mechanical performances of polymer nanocomposites. <i>Polymer</i> , 2015 , 68, 131-139	3.9	40
5	Mechanics of nanoscale wrinkling of graphene on a non-developable surface. <i>Carbon</i> , 2015 , 84, 263-271	10.4	33
4	Quantitatively analyzing phonon spectral contribution of thermal conductivity based on nonequilibrium molecular dynamics simulations. I. From space Fourier transform. <i>Physical Review B</i> , 2015 , 92,	3.3	49
3	Quantitatively analyzing phonon spectral contribution of thermal conductivity based on nonequilibrium molecular dynamics simulations. II. From time Fourier transform. <i>Physical Review B</i> , 2015 , 92,	3.3	28
2	Crack propagation behaviors at Cu/SiC interface by molecular dynamics simulation. <i>Computational Materials Science</i> , 2014 , 82, 17-25	3.2	49
1	Dynamic crack propagation in copper bicrystals grain boundary by atomistic simulation. <i>Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , 2014 , 599, 116-124	5.3	34