

# Yanguang Zhou

## List of Publications by Citations

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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	Crack propagation behaviors at Cu/SiC interface by molecular dynamics simulation. <i>Computational Materials Science</i> , <b>2014</b> , 82, 17-25	3.2	49
41	Quantitatively analyzing phonon spectral contribution of thermal conductivity based on nonequilibrium molecular dynamics simulations. I. From space Fourier transform. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	49
40	Nonmonotonic Diameter Dependence of Thermal Conductivity of Extremely Thin Si Nanowires: Competition between Hydrodynamic Phonon Flow and Boundary Scattering. <i>Nano Letters</i> , <b>2017</b> , 17, 1269-1276	11.5	45
39	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> , <b>2017</b> , 95,	3.3	44
38	An excellent candidate for largely reducing interfacial thermal resistance: a nano-confined mass graded interface. <i>Nanoscale</i> , <b>2016</b> , 8, 1994-2002	7.7	44
37	Record Low Thermal Conductivity of Polycrystalline Si Nanowire: Breaking the Casimir Limit by Severe Suppression of Propagons. <i>Nano Letters</i> , <b>2016</b> , 16, 6178-6187	11.5	44
36	Effect of folded and crumpled morphologies of graphene oxide platelets on the mechanical performances of polymer nanocomposites. <i>Polymer</i> , <b>2015</b> , 68, 131-139	3.9	40
35	Dynamic crack propagation in copper bicrystals grain boundary by atomistic simulation. <i>Materials Science &amp; Engineering A: Structural Materials: Properties, Microstructure and Processing</i> , <b>2014</b> , 599, 116-124	5.3	34
34	Mechanics of nanoscale wrinkling of graphene on a non-developable surface. <i>Carbon</i> , <b>2015</b> , 84, 263-271	10.4	33
33	Quantitatively analyzing phonon spectral contribution of thermal conductivity based on nonequilibrium molecular dynamics simulations. II. From time Fourier transform. <i>Physical Review B</i> , <b>2015</b> , 92,	3.3	28
32	Strong anharmonic phonon scattering induced giant reduction of thermal conductivity in PbTe nanotwin boundary. <i>Physical Review B</i> , <b>2018</b> , 97,	3.3	23
31	The typical manners of dynamic crack propagation along the metal/ceramics interfaces: A molecular dynamics study. <i>Computational Materials Science</i> , <b>2016</b> , 112, 27-33	3.2	23
30	Decouple electronic and phononic transport in nanotwinned structures: a new strategy for enhancing the figure-of-merit of thermoelectrics. <i>Nanoscale</i> , <b>2017</b> , 9, 9987-9996	7.7	23
29	Thermal transport crossover from crystalline to partial-crystalline partial-liquid state. <i>Nature Communications</i> , <b>2018</b> , 9, 4712	17.4	23
28	Strong phonon localization in PbTe with dislocations and large deviation to Matthiessen's rule. <i>Npj Computational Materials</i> , <b>2019</b> , 5,	10.9	19
27	Extremely Low Thermal Conductivity of Polycrystalline Silicene. <i>Journal of Physical Chemistry C</i> , <b>2018</b> , 122, 9220-9228	3.8	16
26	Strong Surface Orientation Dependent Thermal Transport in Si Nanowires. <i>Scientific Reports</i> , <b>2016</b> , 6, 24903	4.9	16

25	Mechanical behaviors of nanocrystalline Cu/SiC composites: An atomistic investigation. <i>Computational Materials Science</i> , <b>2017</b> , 129, 129-136	3.2	15
24	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> , <b>2017</b> , 5, 10578-10588	7.1	13
23	The morphology of graphene on a non-developable concave substrate. <i>Applied Physics Letters</i> , <b>2016</b> , 108, 031905	3.4	12
22	First-principles and molecular dynamics study of thermoelectric transport properties of N-type silicon-based superlattice-nanocrystalline heterostructures. <i>Journal of Applied Physics</i> , <b>2017</b> , 122, 085105	2.5	11
21	Enormous suppression of phonon transport in silicon nanowires with five-fold twin boundary. <i>Journal of Materials Chemistry A</i> , <b>2018</b> , 6, 18533-18542	13	9
20	Atomistic simulation of phonon and magnon thermal transport across the ferromagnetic-paramagnetic transition. <i>Physical Review B</i> , <b>2020</b> , 101,	3.3	8
19	Methodology Perspective of Computing Thermal Transport in Low-Dimensional Materials and Nanostructures: The Old and the New. <i>ACS Omega</i> , <b>2018</b> , 3, 3278-3284	3.9	8
18	Boundary scattering effect on the thermal conductivity of nanowires. <i>Semiconductor Science and Technology</i> , <b>2016</b> , 31, 074004	1.8	7
17	Unprecedented mechanical response of the lattice thermal conductivity of auxetic carbon crystals. <i>Carbon</i> , <b>2017</b> , 122, 374-380	10.4	7
16	Assessing the quantum effect in classical thermal conductivity of amorphous silicon. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 235104	2.5	6
15	Molecular dynamics simulations of the effect of dislocations on the thermal conductivity of iron. <i>Journal of Applied Physics</i> , <b>2020</b> , 127, 045106	2.5	5
14	The effective regulation of nanotwinning on the multichannel thermal transport in hybrid organic/inorganic halide perovskite. <i>Nano Energy</i> , <b>2021</b> , 82, 105747	17.1	5
13	Probing the phonon mean free paths in dislocation core by molecular dynamics simulation. <i>Journal of Applied Physics</i> , <b>2021</b> , 129, 055103	2.5	5
12	Two-Channel Thermal Transport in Ordered-Disordered Superionic AgTe and Its Traditionally Contradictory Enhancement by Nanotwin Boundary. <i>Journal of Physical Chemistry Letters</i> , <b>2018</b> , 9, 5704-5709	6.1	5
11	Broadly manipulating the interfacial thermal energy transport across the Si/4H-SiC interfaces via nanopatterns. <i>International Journal of Heat and Mass Transfer</i> , <b>2022</b> , 187, 122499	4.9	4
10	Highly Thermo-Conductive Three-Dimensional Graphene Aqueous Medium. <i>Nano-Micro Letters</i> , <b>2020</b> , 12, 138	19.5	3
9	Quantitatively predicting modal thermal conductivity of nanocrystalline Si by full-band Monte Carlo simulations. <i>Physical Review B</i> , <b>2021</b> , 104,	3.3	3
8	Thermal transfer in amorphous superionic Li <sub>2</sub> S. <i>Physical Review B</i> , <b>2021</b> , 103,	3.3	3

7	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> , <b>2021</b> , 21, 100516	8	3
6	Phonon scattering in the complex strain field of a dislocation in PbTe. <i>Journal of Materials Chemistry C</i> , <b>2021</b> , 9, 8506-8514	7.1	3
5	Thermal boundary conductance across Co/Cu interfaces with spin-lattice interactions. <i>Journal of Applied Physics</i> , <b>2021</b> , 130, 235108	2.5	2
4	Thermal Management Modeling for EGa2O3-Highly Thermal Conductivity Substrates Heterostructures. <i>IEEE Transactions on Components, Packaging and Manufacturing Technology</i> , <b>2022</b> , 1-1	1.7	2
3	Origin of the weakly temperature-dependent thermal conductivity in ZIF-4 and ZIF-62. <i>Physical Review Materials</i> , <b>2022</b> , 6,	3.2	1
2	Tailoring thermal conductivity of AlN films by periodically aligned surface nano-grooves. <i>Applied Physics Letters</i> , <b>2016</b> , 109, 133107	3.4	1
1	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> , <b>2022</b> , 55, 304003	3	0