Yanguang Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

42	1,025	393982	433756
papers	citations	19 h-index	31 g-index

44	44	44	1008
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Full quantification of frequency-dependent interfacial thermal conductance contributed by two- and three-phonon scattering processes from nonequilibrium molecular dynamics simulations. Physical Review B, 2017, 95, .	1.1	75
2	Quantitatively analyzing phonon spectral contribution of thermal conductivity based on nonequilibrium molecular dynamics simulations. I. From space Fourier transform. Physical Review B, 2015, 92, .	1.1	62
3	Crack propagation behaviors at Cu/SiC interface by molecular dynamics simulation. Computational Materials Science, 2014, 82, 17-25.	1.4	59
4	Record Low Thermal Conductivity of Polycrystalline Si Nanowire: Breaking the Casimir Limit by Severe Suppression of Propagons. Nano Letters, 2016, 16, 6178-6187.	4.5	59
5	An excellent candidate for largely reducing interfacial thermal resistance: a nano-confined mass graded interface. Nanoscale, 2016, 8, 1994-2002.	2.8	59
6	Nonmonotonic Diameter Dependence of Thermal Conductivity of Extremely Thin Si Nanowires: Competition between Hydrodynamic Phonon Flow and Boundary Scattering. Nano Letters, 2017, 17, 1269-1276.	4.5	56
7	Effect of folded and crumpled morphologies of graphene oxide platelets on the mechanical performances of polymer nanocomposites. Polymer, 2015, 68, 131-139.	1.8	45
8	Dynamic crack propagation in copper bicrystals grain boundary by atomistic simulation. Materials Science & Engineering A: Structural Materials: Properties, Microstructure and Processing, 2014, 599, 116-124.	2.6	44
9	Mechanics of nanoscale wrinkling of graphene on a non-developable surface. Carbon, 2015, 84, 263-271.	5.4	40
10	Thermal transport crossover from crystalline to partial-crystalline partial-liquid state. Nature Communications, 2018, 9, 4712.	5.8	39
11	Quantitatively analyzing phonon spectral contribution of thermal conductivity based on nonequilibrium molecular dynamics simulations. II. From time Fourier transform. Physical Review B, 2015, 92, .	1.1	37
12	Strong anharmonic phonon scattering induced giant reduction of thermal conductivity in PbTe nanotwin boundary. Physical Review B, 2018, 97, .	1.1	34
13	Decouple electronic and phononic transport in nanotwinned structures: a new strategy for enhancing the figure-of-merit of thermoelectrics. Nanoscale, 2017, 9, 9987-9996.	2.8	31
14	Strong phonon localization in PbTe with dislocations and large deviation to Matthiessenâ€™s rule. Npj Computational Materials, 2019, 5, .	3.5	29
15	The typical manners of dynamic crack propagation along the metal/ceramics interfaces: A molecular dynamics study. Computational Materials Science, 2016, 112, 27-33.	1.4	26
16	Mechanical behaviors of nanocrystalline Cu/SiC composites: An atomistic investigation. Computational Materials Science, 2017, 129, 129-136.	1.4	25
17	Strong Surface Orientation Dependent Thermal Transport in Si Nanowires. Scientific Reports, 2016, 6, 24903.	1.6	20
18	Extremely Low Thermal Conductivity of Polycrystalline Silicene. Journal of Physical Chemistry C, 2018, 122, 9220-9228.	1.5	20

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19	Assessing the quantum effect in classical thermal conductivity of amorphous silicon. Journal of Applied Physics, 2021, 129, .	1.1	19
20	Giant reduction in thermal conductivity of extended type-I silicon clathrates and prominent thermal effect of 6d guest Wyckoff positions. Journal of Materials Chemistry C, 2017, 5, 10578-10588.	2.7	18
21	Enormous suppression of phonon transport in silicon nanowires with five-fold twin boundary. Journal of Materials Chemistry A, 2018, 6, 18533-18542.	5.2	16
22	Broadly manipulating the interfacial thermal energy transport across the Si/4H-SiC interfaces via nanopatterns. International Journal of Heat and Mass Transfer, 2022, 187, 122499.	2.5	16
23	The morphology of graphene on a non-developable concave substrate. Applied Physics Letters, 2016, 108, .	1.5	15
24	The effective regulation of nanotwinning on the multichannel thermal transport in hybrid organicâ€“inorganic halide perovskite. Nano Energy, 2021, 82, 105747.	8.2	13
25	Vibrational modes with long mean free path and large volumetric heat capacity drive higher thermal conductivity in amorphous zeolitic imidazolate Framework-4. Materials Today Physics, 2021, 21, 100516.	2.9	13
26	First-principles and molecular dynamics study of thermoelectric transport properties of N-type silicon-based superlattice-nanocrystalline heterostructures. Journal of Applied Physics, 2017, 122, 085105.	1.1	12
27	Unprecedented mechanical response of the lattice thermal conductivity of auxetic carbon crystals. Carbon, 2017, 122, 374-380.	5.4	12
28	Two-Channel Thermal Transport in Orderedâ€“Disordered Superionic Ag₂Te and Its Traditionally Contradictory Enhancement by Nanotwin Boundary. Journal of Physical Chemistry Letters, 2018, 9, 5704-5709.	2.1	12
29	Atomistic simulation of phonon and magnon thermal transport across the ferromagnetic-paramagnetic transition. Physical Review B, 2020, 101, .	1.1	12
30	Thermal transfer in amorphous superionic <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>Li</mml:mi><mml:mn>2</mml:mn></mml:msub><mml:m mathvariant="normal">S</mml:mi></mml:mrow></mml:math>. Physical Review B, 2021, 103, .	3.7	12
31	Thermal Management Modeling for Î²-Ga₂O₃-Highly Thermal Conductive Substrates Heterostructures. IEEE Transactions on Components, Packaging and Manufacturing Technology, 2022, 12, 638-646.	1.4	12
32	Methodology Perspective of Computing Thermal Transport in Low-Dimensional Materials and Nanostructures: The Old and the New. ACS Omega, 2018, 3, 3278-3284.	1.6	11
33	Molecular dynamics simulations of the effect of dislocations on the thermal conductivity of iron. Journal of Applied Physics, 2020, 127, 045106.	1.1	11
34	Probing the phonon mean free paths in dislocation core by molecular dynamics simulation. Journal of Applied Physics, 2021, 129, .	1.1	9
35	Boundary scattering effect on the thermal conductivity of nanowires. Semiconductor Science and Technology, 2016, 31, 074004.	1.0	8
36	Origin of the weakly temperature-dependent thermal conductivity in ZIF-4 and ZIF-62. Physical Review Materials, 2022, 6, .	0.9	8

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37	Highly Thermo-Conductive Three-Dimensional Graphene Aqueous Medium. Nano-Micro Letters, 2020, 12, 138.	14.4	7
38	Phonon scattering in the complex strain field of a dislocation in PbTe. Journal of Materials Chemistry C, 2021, 9, 8506-8514.	2.7	7
39	Elevated barrier height originated from electric dipole effect and improved breakdown characteristics in PtO_x/Î²-Ga₂O₃ Schottky barrier diodes. Journal Physics D: Applied Physics, 2022, 55, 304003.	1.3	7
40	Thermal boundary conductance across Co/Cu interfaces with spinâ€“lattice interactions. Journal of Applied Physics, 2021, 130, 235108.	1.1	5
41	Quantitatively predicting modal thermal conductivity of nanocrystalline Si by full-band Monte Carlo simulations. Physical Review B, 2021, 104, .	1.1	4
42	Tailoring thermal conductivity of AlN films by periodically aligned surface nano-grooves. Applied Physics Letters, 2016, 109, 133107.	1.5	2