Zhiyong Wei

List of Publications by Year
in descending order

49	1,036	394286 19	414303 32
papers	citations	h-index	g-index

50	50	50	1262
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Developing machine learning potential for classical molecular dynamics simulation with superior phonon properties. Computational Materials Science, 2022, 202, 111012.	1.4	3
2	Nanoscale friction behavior of monolayer MoxW1â^'xS2 alloy. Tribology International, 2022, 166, 107363.	3.0	2
3	Anisotropic phonon transport in van der Waals nanostructures. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 427, 127920.	0.9	0
4	Resonance in Atomic-Scale Sliding Friction. Nano Letters, 2021, 21, 4615-4621.	4.5	20
5	Phonon energy dissipation in friction between graphene/graphene interface. Journal of Applied Physics, 2020, 127, .	1.1	24
6	Significantly improved measurement accuracy in determining the thermal expansion coefficient of single layer graphene. Diamond and Related Materials, 2020, 109, 108007.	1.8	4
7	Intercalated ion tuning of the cross-plane thermal transport properties of graphite. AIP Advances, 2020, 10, 095225.	0.6	4
8	The effect of substrate on the tribological properties of graphene. , 2020, , .		0
9	Effects of electrolyte concentration on the morphology control of gold nanotips in electrochemical etching. Journal of Applied Electrochemistry, 2020, 50, 799-807.	1.5	4
10	Significant enhancement of thermal boundary conductance in graphite/Al interface by ion intercalation. International Journal of Heat and Mass Transfer, 2020, 157, 119946.	2.5	12
11	The enhancement of heat conduction across the metal/graphite interface treated with a focused ion beam. Nanoscale, 2020, 12, 14838-14846.	2.8	12
12	Thermal boundary conductance between high thermal conductivity boron arsenide and silicon. Journal of Applied Physics, 2020, 127, 055105.	1.1	6
13	Diminishing Cohesion of Chitosan Films in Acidic Solution by Multivalent Metal Cations. Langmuir, 2020, 36, 4964-4974.	1.6	5
14	Inter- and intramolecular adhesion mechanisms of mussel foot proteins. Science China Technological Sciences, 2020, 63, 1675-1698.	2.0	14
15	Interfacial coupling effects on the thermal conductivity of few-layer graphene. Materials Research Express, 2020, 7, 095602.	0.8	2
16	Effects of Commensurability on the Friction and Energy Dissipation in Graphene/Graphene Interface. , 2020, , .		2
17	Kink as a new degree of freedom to tune the thermal conductivity of Si nanoribbons. Journal of Applied Physics, 2019, 126, .	1.1	11
18	Glycerol-Assisted Construction of Long-Life Three-Dimensional Surface-Enhanced Raman Scattering Hot Spot Matrix. Langmuir, 2019, 35, 15795-15804.	1.6	8

#	Article	IF	Citations
19	Impact of bonding energy on thermal conductance of metal/graphene/metal interfaces. Materials Research Express, 2019, 6, 085015.	0.8	1
20	Direct detection of DNA using 3D surface enhanced Raman scattering hotspot matrix. Electrophoresis, 2019, 40, 2104-2111.	1.3	7
21	Tuning the interfacial thermal conductance via the anisotropic elastic properties of graphite. Carbon, 2019, 144, 109-115.	5.4	20
22	Tunable Anisotropic Thermal Conductivity and Elastic Properties in Intercalated Graphite via Lithium Ions. Journal of Physical Chemistry C, 2018, 122, 1447-1455.	1.5	22
23	The frictional energy dissipation and interfacial heat conduction in the sliding interface. AIP Advances, 2018, 8, .	0.6	9
24	Electron contributions to the heat conduction across Au/graphene/Au interfaces. Carbon, 2017, 115, 665-671.	5.4	24
25	Axial tensile strain effects on the contact thermal conductance between cross contacted single-walled carbon nanotubes. Journal of Applied Physics, 2017, 121, .	1.1	2
26	Defect Facilitated Phonon Transport through Kinks in Boron Carbide Nanowires. Nano Letters, 2017, 17, 3550-3555.	4.5	23
27	Mean free path dependent phonon contributions to interfacial thermal conductance. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1899-1904.	0.9	23
28	Phonon transport properties of bulk and monolayer GaN from first-principles calculations. Computational Materials Science, 2017, 138, 419-425.	1.4	39
29	Phonon filtering for reduced thermal conductance in unconventional superlattices. Applied Physics Express, 2017, 10, 085801.	1.1	3
30	Thermal transport properties of all-sp2 three-dimensional graphene: Anisotropy, size and pressure effects. Carbon, 2017, 113, 212-218.	5.4	31
31	Geometric tuning of thermal conductivity in three-dimensional anisotropic phononic crystals. Nanoscale, 2016, 8, 16612-16620.	2.8	22
32	Anisotropic thermal transport property of defect-free GaN. AIP Advances, 2016, 6, .	0.6	7
33	Pressure effects on the thermal resistance of few-layer graphene. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 248-254.	0.9	16
34	Effects of interfacial roughness on phonon transport in bilayer silicon thin films. Physical Review B, 2015, 92, .	1.1	14
35	Phonon transport properties in pillared silicon film. Journal of Applied Physics, 2015, 118, .	1.1	38
36	The contact area dependent interfacial thermal conductance. AIP Advances, 2015, 5, .	0.6	10

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37	Cross-plane phonon transport properties of molybdenum disulphide. Journal Physics D: Applied Physics, 2015, 48, 465303.	1.3	5
38	Phonon mean free path of graphite along thec-axis. Applied Physics Letters, 2014, 104, 081903.	1.5	67
39	Mode dependent lattice thermal conductivity of single layer graphene. Journal of Applied Physics, 2014, 116, .	1.1	61
40	Phonon Transport through Point Contacts between Graphitic Nanomaterials. Physical Review Letters, 2014, 112, .	2.9	60
41	Anisotropic Debye model for the thermal boundary conductance. Physical Review B, 2013, 87, .	1.1	54
42	Negative correlation between in-plane bonding strength and cross-plane thermal conductivity in a model layered material. Applied Physics Letters, 2013, 102, .	1.5	50
43	Interfacial Thermal Conductance Between Carbon Nanotubes From Nonequilibrium Greenâ€™s Function Method. , 2013, , .		1
44	Wave packet simulations of phonon boundary scattering at graphene edges. Journal of Applied Physics, 2012, 112, 024328.	1.1	29
45	The effects of different doping patterns on the lattice thermal conductivity of solid Ar. Journal of Physics and Chemistry of Solids, 2012, 73, 204-208.	1.9	2
46	Interfacial thermal resistance in multilayer graphene structures. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1195-1199.	0.9	106
47	In-plane lattice thermal conductivities of multilayer graphene films. Carbon, 2011, 49, 2653-2658.	5.4	156
48	Phonon dispersion relations of crystalline solids based on LAMMPS package. Chinese Physics B, 0, , .	0.7	1
49	Twoâ€dimensional oxide based pressure sensors with high sensitivity. Nano Select, 0, , .	1.9	0