

# Zhiyong Wei

## List of Publications by Year in descending order

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49  
papers

1,036  
citations

394286

19  
h-index

414303

32  
g-index

50  
all docs

50  
docs citations

50  
times ranked

1262  
citing authors

#	ARTICLE	IF	CITATIONS
1	In-plane lattice thermal conductivities of multilayer graphene films. Carbon, 2011, 49, 2653-2658.	5.4	156
2	Interfacial thermal resistance in multilayer graphene structures. Physics Letters, Section A: General, Atomic and Solid State Physics, 2011, 375, 1195-1199.	0.9	106
3	Phonon mean free path of graphite along the $c$ -axis. Applied Physics Letters, 2014, 104, 081903.	1.5	67
4	Mode dependent lattice thermal conductivity of single layer graphene. Journal of Applied Physics, 2014, 116, .	1.1	61
5	Phonon Transport through Point Contacts between Graphitic Nanomaterials. Physical Review Letters, 2014, 112, .	2.9	60
6	Anisotropic Debye model for the thermal boundary conductance. Physical Review B, 2013, 87, .	1.1	54
7	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
8	Phonon transport properties of bulk and monolayer GaN from first-principles calculations. Computational Materials Science, 2017, 138, 419-425.	1.4	39
9	Phonon transport properties in pillared silicon film. Journal of Applied Physics, 2015, 118, .	1.1	38
10	Thermal transport properties of all-sp <sup>2</sup> three-dimensional graphene: Anisotropy, size and pressure effects. Carbon, 2017, 113, 212-218.	5.4	31
11	Wave packet simulations of phonon boundary scattering at graphene edges. Journal of Applied Physics, 2012, 112, 024328.	1.1	29
12	Electron contributions to the heat conduction across Au/graphene/Au interfaces. Carbon, 2017, 115, 665-671.	5.4	24
13	Phonon energy dissipation in friction between graphene/graphene interface. Journal of Applied Physics, 2020, 127, .	1.1	24
14	Defect Facilitated Phonon Transport through Kinks in Boron Carbide Nanowires. Nano Letters, 2017, 17, 3550-3555.	4.5	23
15	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
16	Geometric tuning of thermal conductivity in three-dimensional anisotropic phononic crystals. Nanoscale, 2016, 8, 16612-16620.	2.8	22
17	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
18	Tuning the interfacial thermal conductance via the anisotropic elastic properties of graphite. Carbon, 2019, 144, 109-115.	5.4	20

#	ARTICLE	IF	CITATIONS
19	Resonance in Atomic-Scale Sliding Friction. <i>Nano Letters</i> , 2021, 21, 4615-4621.	4.5	20
20	Pressure effects on the thermal resistance of few-layer graphene. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2016, 380, 248-254.	0.9	16
21	Effects of interfacial roughness on phonon transport in bilayer silicon thin films. <i>Physical Review B</i> , 2015, 92, .	1.1	14
22	Inter- and intramolecular adhesion mechanisms of mussel foot proteins. <i>Science China Technological Sciences</i> , 2020, 63, 1675-1698.	2.0	14
23	Significant enhancement of thermal boundary conductance in graphite/Al interface by ion intercalation. <i>International Journal of Heat and Mass Transfer</i> , 2020, 157, 119946.	2.5	12
24	The enhancement of heat conduction across the metal/graphite interface treated with a focused ion beam. <i>Nanoscale</i> , 2020, 12, 14838-14846.	2.8	12
25	Kink as a new degree of freedom to tune the thermal conductivity of Si nanoribbons. <i>Journal of Applied Physics</i> , 2019, 126, .	1.1	11
26	The contact area dependent interfacial thermal conductance. <i>AIP Advances</i> , 2015, 5, .	0.6	10
27	The frictional energy dissipation and interfacial heat conduction in the sliding interface. <i>AIP Advances</i> , 2018, 8, .	0.6	9
28	Glycerol-Assisted Construction of Long-Life Three-Dimensional Surface-Enhanced Raman Scattering Hot Spot Matrix. <i>Langmuir</i> , 2019, 35, 15795-15804.	1.6	8
29	Anisotropic thermal transport property of defect-free GaN. <i>AIP Advances</i> , 2016, 6, .	0.6	7
30	Direct detection of DNA using 3D surface enhanced Raman scattering hotspot matrix. <i>Electrophoresis</i> , 2019, 40, 2104-2111.	1.3	7
31	Thermal boundary conductance between high thermal conductivity boron arsenide and silicon. <i>Journal of Applied Physics</i> , 2020, 127, 055105.	1.1	6
32	Cross-plane phonon transport properties of molybdenum disulphide. <i>Journal Physics D: Applied Physics</i> , 2015, 48, 465303.	1.3	5
33	Diminishing Cohesion of Chitosan Films in Acidic Solution by Multivalent Metal Cations. <i>Langmuir</i> , 2020, 36, 4964-4974.	1.6	5
34	Significantly improved measurement accuracy in determining the thermal expansion coefficient of single layer graphene. <i>Diamond and Related Materials</i> , 2020, 109, 108007.	1.8	4
35	Intercalated ion tuning of the cross-plane thermal transport properties of graphite. <i>AIP Advances</i> , 2020, 10, 095225.	0.6	4
36	Effects of electrolyte concentration on the morphology control of gold nanotips in electrochemical etching. <i>Journal of Applied Electrochemistry</i> , 2020, 50, 799-807.	1.5	4

#	ARTICLE	IF	CITATIONS
37	Phonon filtering for reduced thermal conductance in unconventional superlattices. Applied Physics Express, 2017, 10, 085801.	1.1	3
38	Developing machine learning potential for classical molecular dynamics simulation with superior phonon properties. Computational Materials Science, 2022, 202, 111012.	1.4	3
39	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
40	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
41	Interfacial coupling effects on the thermal conductivity of few-layer graphene. Materials Research Express, 2020, 7, 095602.	0.8	2
42	Nanoscale friction behavior of monolayer Mo <sub>x</sub> W <sub>1-x</sub> S <sub>2</sub> alloy. Tribology International, 2022, 166, 107363.	3.0	2
43	Effects of Commensurability on the Friction and Energy Dissipation in Graphene/Graphene Interface. , 2020, , .		2
44	Impact of bonding energy on thermal conductance of metal/graphene/metal interfaces. Materials Research Express, 2019, 6, 085015.	0.8	1
45	Phonon dispersion relations of crystalline solids based on LAMMPS package. Chinese Physics B, 0, , .	0.7	1
46	Interfacial Thermal Conductance Between Carbon Nanotubes From Nonequilibrium Green's Function Method. , 2013, , .		1
47	The effect of substrate on the tribological properties of graphene. , 2020, , .		0
48	Two-dimensional oxide based pressure sensors with high sensitivity. Nano Select, 0, , .	1.9	0
49	Anisotropic phonon transport in van der Waals nanostructures. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 427, 127920.	0.9	0