Jun Zhou

List of Publications by Year
in descending order

75 papers	2,645 citations	236612 25 h-index	189595 50 g-index
75 all docs	75 docs citations	75 times ranked	3213 citing authors

#	Article	IF	Citations
1	Thermal management of electronics and thermoelectric power generation from waste heat enabled by flexible Kevlar@SiC thermal conductive materials with liquid-crystalline orientation. Energy Conversion and Management, 2022, 251, 114957.	4.4	19
2	Interfacial thermal resistance: Past, present, and future. Reviews of Modern Physics, 2022, 94, .	16.4	178
3	Thermal Transport across Polyethylene Chains. Journal of Thermal Science, 2022, 31, 1061-1067.	0.9	2
4	Heat conduction of electrons and phonons in thermal interface materials. Materials Chemistry Frontiers, 2021, 5, 5617-5638.	3.2	22
5	Thermal boundary conductance across solidâ€“solid interfaces at high temperatures: A microscopic approach. Journal of Applied Physics, 2021, 129, .	1.1	6
6	Thermal percolation and electrical insulation in composite materials with partially metallic coated fillers. Applied Physics Letters, 2021, 119, .	1.5	3
7	Dimension reduction induced anisotropic magnetic thermal conductivity in hematite nanowires. Physical Review B, 2021, 104, .	1.1	1
8	Role of Magnon-Magnon Scattering in Magnon Polaron Spin Seebeck Effect. Physical Review Letters, 2021, 127, 277203.	2.9	6
9	Thermal Transport in Conductive Polymerâ€“Based Materials. Advanced Functional Materials, 2020, 30, 1904704.	7.8	122
10	A Ubiquitous Thermal Conductivity Formula for Liquids, Polymer Glass, and Amorphous Solids*. Chinese Physics Letters, 2020, 37, 104401.	1.3	33
11	Thermal relaxation of magnons and phonons near resonance points in magnetic insulators. Europhysics Letters, 2020, 129, 57001.	0.7	1
12	Phonon Renormalization Induced by Electric Field in Ferroelectric Poly(Vinylidene) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 302 Td (Fluoride	1.5	18
13	Thermal conductivity of one-dimensional organic nanowires: effect of mass difference phonon scattering. Nanotechnology, 2020, 31, 324003.	1.3	3
14	Thermal resistance network model for heat conduction of amorphous polymers. Physical Review Materials, 2020, 4, .	0.9	19
15	Superior Thermal Dissipation in Graphene Electronic Device Through Novel Heat Path by Electron-Phonon Coupling. ES Energy & Environments, 2020, , .	0.5	7
16	Enhanced thermoelectric properties through minority carriers blocking in nanocomposites. Journal of Applied Physics, 2019, 126, 095107.	1.1	8
17	Role of radiation in heat transfer from nanoparticles to gas media in photothermal measurements. International Journal of Modern Physics C, 2019, 30, 1950024.	0.8	12
18	On the importance of using exact full phonon dispersions for predicting interfacial thermal conductance of layered materials using diffuse mismatch model. AIP Advances, 2019, 9, .	0.6	11

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19	Effect of boundary chain folding on thermal conductivity of lamellar amorphous polyethylene. RSC Advances, 2019, 9, 33549-33557.	1.7	13
20	Ultralow lattice thermal conductivity and electronic properties of monolayer 1T phase semimetal SiTe2 and SnTe2. Physica E: Low-Dimensional Systems and Nanostructures, 2019, 108, 53-59.	1.3	37
21	Thermal Conductivity of Polymers and Their Nanocomposites. Advanced Materials, 2018, 30, e1705544.	11.1	442
22	Thermal transport in organic/inorganic composites. Frontiers in Energy, 2018, 12, 72-86.	1.2	13
23	Thermal transport in semicrystalline polyethylene by molecular dynamics simulation. Journal of Applied Physics, 2018, 123, .	1.1	39
24	Dimensional crossover of heat conduction in amorphous polyimide nanofibers. National Science Review, 2018, 5, 500-506.	4.6	43
25	Thermal conductivity of suspended few-layer MoS₂. Nanoscale, 2018, 10, 2727-2734.	2.8	70
26	Interfacial thermal conductance at metalâ€“nonmetal interface via electronâ€“phonon coupling. Modern Physics Letters B, 2018, 32, 1830004.	1.0	13
27	Off-center rattling triggers high-temperature thermal transport in thermoelectric clathrates: Nonperturbative approach. Physical Review B, 2018, 97, .	1.1	9
28	Enhanced thermoelectric cooling performance with graded thermoelectric materials. Japanese Journal of Applied Physics, 2018, 57, 071801.	0.8	9
29	Thermal percolation in composite materials with electrically conductive fillers. Applied Physics Letters, 2018, 113, .	1.5	22
30	Topological Design of Inorganicâ€“Organic Thermoelectric Nanocomposites Based on â€œElectronâ€“Percolation Phononâ€“Insulatorâ€•Concept. ACS Applied Energy Materials, 2018, 1, 2927-2933.	2.5	7
31	Theoretical investigation on thermoelectric properties of Cu-based chalcopyrite compounds. Physical Review B, 2017, 95, .	1.1	19
32	Optical Response of Graphene under Intense Terahertz Fields. , 2017, , 243-268.		0
33	Gateâ€Controlled BPâ€“WSe₂ Heterojunction Diode for Logic Rectifiers and Logic Optoelectronics. Small, 2017, 13, 1603726.	5.2	86
34	Thermoelectric transport in hybrid materials incorporating metallic nanowires in polymer matrix. Applied Physics Letters, 2017, 110, .	1.5	16
35	Hopping processes explain linear rise in temperature of thermal conductivity in thermoelectric clathrates with off-center guest atoms. Physical Review B, 2017, 96, .	1.1	15
36	Ultra-high electrical conductivity and superior bendability simultaneously enabled in Ag nanowire based nanocomposites. RSC Advances, 2017, 7, 44254-44258.	1.7	7

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37	Bendable nâ€Type Metallic Nanocomposites with Large Thermoelectric Power Factor. Advanced Materials, 2017, 29, 1604752.	11.1	96
38	Thermoelectric Transport in Nanocomposites. Materials, 2017, 10, 418.	1.3	27
39	Interfacial thermal conductance across metal-insulator/semiconductor interfaces due to surface states. Physical Review B, 2016, 93, .	1.1	23
40	Phonon-glass dynamics in thermoelectric clathrates. Physical Review B, 2016, 93, .	1.1	13
41	Thermoelectric Enhancement of Ternary Copper Chalcogenide Nanocrystals by Magnetic Nickel Doping. Advanced Electronic Materials, 2016, 2, 1500473.	2.6	30
42	Spin-dependent Seebeck effect in Aharonovâ€“Bohm rings with Rashba and Dresselhaus spinâ€“orbit interactions. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 80, 163-167.	1.3	6
43	3D Printing: 3D Printing Fabrication of Amorphous Thermoelectric Materials with Ultralow Thermal Conductivity (Small 44/2015). Small, 2015, 11, 5888-5888.	5.2	1
44	An electrohydrodynamics model for non-equilibrium electron and phonon transport in metal films after ultra-short pulse laser heating. European Physical Journal B, 2015, 88, 1.	0.6	7
45	3D Printing Fabrication of Amorphous Thermoelectric Materials with Ultralow Thermal Conductivity. Small, 2015, 11, 5889-5894.	5.2	93
46	Spin-dependent Seebeck effect in asymmetric four-terminal systems with Rashba spin-orbit coupling. Europhysics Letters, 2015, 110, 38004.	0.7	1
47	One-Step Chemical Synthesis of ZnO/Graphene Oxide Molecular Hybrids for High-Temperature Thermoelectric Applications. ACS Applied Materials & Interfaces, 2015, 7, 3224-3230.	4.0	59
48	Thermal boundary conductance across metal-nonmetal interfaces: effects of electron-phonon coupling both in metal and at interface. European Physical Journal B, 2015, 88, 1.	0.6	16
49	Hot-Injection Synthesis of Cu-Doped Cu₂ZnSnSe₄ Nanocrystals to Reach Thermoelectric zT of 0.70 at 450 Â°C. ACS Applied Materials & Interfaces, 2015, 7, 24403-24408.	4.0	55
50	Study on the graphene/silicon Schottky diodes by transferring graphene transparent electrodes on silicon. Thin Solid Films, 2015, 592, 281-286.	0.8	6
51	Thermal annealing and air exposing effect on the graphene/silicon Schottky junctions. Solid State Communications, 2015, 201, 115-119.	0.9	4
52	Artificial microstructure materials and heat flux manipulation. Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica, 2015, 45, 705-713.	0.3	1
53	Inhomogeneous thermal conductivity enhances thermoelectric cooling. AIP Advances, 2014, 4, .	0.6	10
54	Ballistic thermoelectric transport in structured nanowires. New Journal of Physics, 2014, 16, 065018.	1.2	20

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55	Wave-packet rectification in nonlinear electronic systems: A tunable Aharonov-Bohm diode. Scientific Reports, 2014, 4, 4566.	1.6	6
56	Thermoelectric Transport Across Nanoscale Polymerâ€“Semiconductorâ€“Polymer Junctions. Journal of Physical Chemistry C, 2013, 117, 24716-24725.	1.5	16
57	Optimal thermoelectric figure of merit in Bi<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>2</mml:mn></mml:msub></mml:math>Te<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:mn>3</mml:mn></mml:msub></mml:math>/Sb<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mrow /><mml:	1.1	13
58	Thermoelectric Properties of Molecular Nanowires. Journal of Physical Chemistry C, 2011, 115, 24418-24428.	1.5	61
59	Quantum and classical thermoelectric transport in quantum dot nanocomposites. Journal of Applied Physics, 2011, 110, .	1.1	23
60	Optimal Bandwidth for High Efficiency Thermoelectrics. Physical Review Letters, 2011, 107, 226601.	2.9	79
61	Ballistic thermoelectricity in double-bend nanowires. Applied Physics Letters, 2011, 98, 173107.	1.5	16
62	Semiclassical model for thermoelectric transport in nanocomposites. Physical Review B, 2010, 82, .	1.1	85
63	Thermoelectric transport in strongly correlated quantum dot nanocomposites. Physical Review B, 2010, 82, .	1.1	16
64	Effect of Singwiâ€“Tosiâ€“Landâ€“SjÃ¶lander local field correction on spin relaxation in n-type GaAs quantum wells at low temperature. Physica E: Low-Dimensional Systems and Nanostructures, 2008, 41, 50-53.	1.3	1
65	Internal lattice relaxation of single-layer graphene under in-plane deformation. Journal of the Mechanics and Physics of Solids, 2008, 56, 1609-1623.	2.3	164
66	Spin relaxation due to the Bir-Aronov-Pikus mechanism in intrinsic and<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>p</mml:mi></mml:math>-type GaAs quantum wells from a fully microscopic approach. Physical Review B, 2008, 77, .	1.1	32
67	Multivalley spin relaxation in the presence of high in-plane electric fields inn-type GaAs quantum wells. Physical Review B, 2008, 77, .	1.1	16
68	Spin relaxation inn-type GaAs quantum wells from a fully microscopic approach. Physical Review B, 2007, 75, .	1.1	76
69	Dependence of spin dephasing on initial spin polarization in a high-mobility two-dimensional electron system. Physical Review B, 2007, 76, .	1.1	38
70	Effect of Initial Spin Polarization on Spin Dephasing and the ElectrongFactor in a High-Mobility Two-Dimensional Electron System. Physical Review Letters, 2007, 98, .	2.9	80
71	Spin-dependent hole quantum transport in Aharonovâ€“Bohm ring structure: possible schemes for spin filter. Physics Letters, Section A: General, Atomic and Solid State Physics, 2006, 349, 393-397.	0.9	9
72	Spin-Hall effect in two-dimensional mesoscopic hole systems. Physical Review B, 2005, 72, .	1.1	20

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73	Spin-dependent transport in lateral periodic magnetic modulations: Scheme for spin filters. Applied Physics Letters, 2004, 84, 365-367.	1.5	28
74	Spin-dependent quantum transport in periodic magnetic modulations: Aharonovâ€“Bohm ring structure as a spin filter. Applied Physics Letters, 2004, 85, 1012-1014.	1.5	42
75	Spin filtering through a double-bend structure. Applied Physics Letters, 2004, 85, 2547-2549.	1.5	25