

# Jun Zhou

## List of Publications by Year in descending order

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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 Conductivity of Polymers and Their Nanocomposites. <i>Advanced Materials</i> , 2018, 30, e1705544.	11.1	442
2	Interfacial thermal resistance: Past, present, and future. <i>Reviews of Modern Physics</i> , 2022, 94, .	16.4	178
3	Internal lattice relaxation of single-layer graphene under in-plane deformation. <i>Journal of the Mechanics and Physics of Solids</i> , 2008, 56, 1609-1623.	2.3	164
4	Thermal Transport in Conductive Polymer-Based Materials. <i>Advanced Functional Materials</i> , 2020, 30, 1904704.	7.8	122
5	Bendable n-Type Metallic Nanocomposites with Large Thermoelectric Power Factor. <i>Advanced Materials</i> , 2017, 29, 1604752.	11.1	96
6	3D Printing Fabrication of Amorphous Thermoelectric Materials with Ultralow Thermal Conductivity. <i>Small</i> , 2015, 11, 5889-5894.	5.2	93
7	Gate-Controlled BP/WSe <sub>2</sub> Heterojunction Diode for Logic Rectifiers and Logic Optoelectronics. <i>Small</i> , 2017, 13, 1603726.	5.2	86
8	Semiclassical model for thermoelectric transport in nanocomposites. <i>Physical Review B</i> , 2010, 82, .	1.1	85
9	Effect of Initial Spin Polarization on Spin Dephasing and the Electron g-Factor in a High-Mobility Two-Dimensional Electron System. <i>Physical Review Letters</i> , 2007, 98, .	2.9	80
10	Optimal Bandwidth for High Efficiency Thermoelectrics. <i>Physical Review Letters</i> , 2011, 107, 226601.	2.9	79
11	Spin relaxation in n-type GaAs quantum wells from a fully microscopic approach. <i>Physical Review B</i> , 2007, 75, .	1.1	76
12	Thermal conductivity of suspended few-layer MoS <sub>2</sub> . <i>Nanoscale</i> , 2018, 10, 2727-2734.	2.8	70
13	Thermoelectric Properties of Molecular Nanowires. <i>Journal of Physical Chemistry C</i> , 2011, 115, 24418-24428.	1.5	61
14	One-Step Chemical Synthesis of ZnO/Graphene Oxide Molecular Hybrids for High-Temperature Thermoelectric Applications. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 3224-3230.	4.0	59
15	Hot-Injection Synthesis of Cu-Doped Cu <sub>2</sub> ZnSnSe <sub>4</sub> Nanocrystals to Reach Thermoelectric $zT$ of 0.70 at 450 Å°C. <i>ACS Applied Materials &amp; Interfaces</i> , 2015, 7, 24403-24408.	4.0	55
16	Dimensional crossover of heat conduction in amorphous polyimide nanofibers. <i>National Science Review</i> , 2018, 5, 500-506.	4.6	43
17	Spin-dependent quantum transport in periodic magnetic modulations: Aharonov-Bohm ring structure as a spin filter. <i>Applied Physics Letters</i> , 2004, 85, 1012-1014.	1.5	42
18	Thermal transport in semicrystalline polyethylene by molecular dynamics simulation. <i>Journal of Applied Physics</i> , 2018, 123, .	1.1	39

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19	Dependence of spin dephasing on initial spin polarization in a high-mobility two-dimensional electron system. <i>Physical Review B</i> , 2007, 76, .	1.1	38
20	Ultralow lattice thermal conductivity and electronic properties of monolayer 1T phase semimetal SiTe <sub>2</sub> and SnTe <sub>2</sub> . <i>Physica E: Low-Dimensional Systems and Nanostructures</i> , 2019, 108, 53-59.	1.3	37
21	A Ubiquitous Thermal Conductivity Formula for Liquids, Polymer Glass, and Amorphous Solids*. <i>Chinese Physics Letters</i> , 2020, 37, 104401.	1.3	33
22	Spin relaxation due to the Bir-Aronov-Pikus mechanism in intrinsic and $p$ -type GaAs quantum wells from a fully microscopic approach. <i>Physical Review B</i> , 2008, 77, .	1.1	32
23	Thermoelectric Enhancement of Ternary Copper Chalcogenide Nanocrystals by Magnetic Nickel Doping. <i>Advanced Electronic Materials</i> , 2016, 2, 1500473.	2.6	30
24	Spin-dependent transport in lateral periodic magnetic modulations: Scheme for spin filters. <i>Applied Physics Letters</i> , 2004, 84, 365-367.	1.5	28
25	Thermoelectric Transport in Nanocomposites. <i>Materials</i> , 2017, 10, 418.	1.3	27
26	Spin filtering through a double-bend structure. <i>Applied Physics Letters</i> , 2004, 85, 2547-2549.	1.5	25
27	Quantum and classical thermoelectric transport in quantum dot nanocomposites. <i>Journal of Applied Physics</i> , 2011, 110, .	1.1	23
28	Interfacial thermal conductance across metal-insulator/semiconductor interfaces due to surface states. <i>Physical Review B</i> , 2016, 93, .	1.1	23
29	Thermal percolation in composite materials with electrically conductive fillers. <i>Applied Physics Letters</i> , 2018, 113, .	1.5	22
30	Heat conduction of electrons and phonons in thermal interface materials. <i>Materials Chemistry Frontiers</i> , 2021, 5, 5617-5638.	3.2	22
31	Spin-Hall effect in two-dimensional mesoscopic hole systems. <i>Physical Review B</i> , 2005, 72, .	1.1	20
32	Ballistic thermoelectric transport in structured nanowires. <i>New Journal of Physics</i> , 2014, 16, 065018.	1.2	20
33	Theoretical investigation on thermoelectric properties of Cu-based chalcopyrite compounds. <i>Physical Review B</i> , 2017, 95, .	1.1	19
34	Thermal resistance network model for heat conduction of amorphous polymers. <i>Physical Review Materials</i> , 2020, 4, .	0.9	19
35	Thermal management of electronics and thermoelectric power generation from waste heat enabled by flexible Kevlar@SiC thermal conductive materials with liquid-crystalline orientation. <i>Energy Conversion and Management</i> , 2022, 251, 114957.	4.4	19
36	Phonon Renormalization Induced by Electric Field in Ferroelectric Poly(Vinylidene) Fluoride	1.5	18

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37	Multivalley spin relaxation in the presence of high in-plane electric fields in n-type GaAs quantum wells. <i>Physical Review B</i> , 2008, 77, .	1.1	16
38	Thermoelectric transport in strongly correlated quantum dot nanocomposites. <i>Physical Review B</i> , 2010, 82, .	1.1	16
39	Ballistic thermoelectricity in double-bend nanowires. <i>Applied Physics Letters</i> , 2011, 98, 173107.	1.5	16
40	Thermoelectric Transport Across Nanoscale Polymer-Semiconductor-Polymer Junctions. <i>Journal of Physical Chemistry C</i> , 2013, 117, 24716-24725.	1.5	16
41	Thermal boundary conductance across metal-nonmetal interfaces: effects of electron-phonon coupling both in metal and at interface. <i>European Physical Journal B</i> , 2015, 88, 1.	0.6	16
42	Thermoelectric transport in hybrid materials incorporating metallic nanowires in polymer matrix. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	16
43	Hopping processes explain linear rise in temperature of thermal conductivity in thermoelectric clathrates with off-center guest atoms. <i>Physical Review B</i> , 2017, 96, .	1.1	15
44	Optimal thermoelectric figure of merit in Bi <sub>2</sub> Te <sub>3</sub> Sb <sub>3</sub> . $\frac{S^2\sigma}{\kappa}$	1.1	13
45	Phonon-glass dynamics in thermoelectric clathrates. <i>Physical Review B</i> , 2016, 93, .	1.1	13
46	Thermal transport in organic/inorganic composites. <i>Frontiers in Energy</i> , 2018, 12, 72-86.	1.2	13
47	Interfacial thermal conductance at metal-nonmetal interface via electron-phonon coupling. <i>Modern Physics Letters B</i> , 2018, 32, 1830004.	1.0	13
48	Effect of boundary chain folding on thermal conductivity of lamellar amorphous polyethylene. <i>RSC Advances</i> , 2019, 9, 33549-33557.	1.7	13
49	Role of radiation in heat transfer from nanoparticles to gas media in photothermal measurements. <i>International Journal of Modern Physics C</i> , 2019, 30, 1950024.	0.8	12
50	On the importance of using exact full phonon dispersions for predicting interfacial thermal conductance of layered materials using diffuse mismatch model. <i>AIP Advances</i> , 2019, 9, .	0.6	11
51	Inhomogeneous thermal conductivity enhances thermoelectric cooling. <i>AIP Advances</i> , 2014, 4, .	0.6	10
52	Spin-dependent hole quantum transport in Aharonov-Bohm ring structure: possible schemes for spin filter. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2006, 349, 393-397.	0.9	9
53	Off-center rattling triggers high-temperature thermal transport in thermoelectric clathrates: Nonperturbative approach. <i>Physical Review B</i> , 2018, 97, .	1.1	9
54	Enhanced thermoelectric cooling performance with graded thermoelectric materials. <i>Japanese Journal of Applied Physics</i> , 2018, 57, 071801.	0.8	9

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55	Enhanced thermoelectric properties through minority carriers blocking in nanocomposites. Journal of Applied Physics, 2019, 126, 095107.	1.1	8
56	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
57	Ultra-high electrical conductivity and superior bendability simultaneously enabled in Ag nanowire based nanocomposites. RSC Advances, 2017, 7, 44254-44258.	1.7	7
58	Topological Design of Inorganic-Organic Thermoelectric Nanocomposites Based on "Electron-Percolation Phonon-Insulator" Concept. ACS Applied Energy Materials, 2018, 1, 2927-2933.	2.5	7
59	Superior Thermal Dissipation in Graphene Electronic Device Through Novel Heat Path by Electron-Phonon Coupling. ES Energy & Environments, 2020, , .	0.5	7
60	Study on the graphene/silicon Schottky diodes by transferring graphene transparent electrodes on silicon. Thin Solid Films, 2015, 592, 281-286.	0.8	6
61	Wave-packet rectification in nonlinear electronic systems: A tunable Aharonov-Bohm diode. Scientific Reports, 2014, 4, 4566.	1.6	6
62	Spin-dependent Seebeck effect in Aharonov-Bohm rings with Rashba and Dresselhaus spin-orbit interactions. Physica E: Low-Dimensional Systems and Nanostructures, 2016, 80, 163-167.	1.3	6
63	Thermal boundary conductance across solid-solid interfaces at high temperatures: A microscopic approach. Journal of Applied Physics, 2021, 129, .	1.1	6
64	Role of Magnon-Magnon Scattering in Magnon Polaron Spin Seebeck Effect. Physical Review Letters, 2021, 127, 277203.	2.9	6
65	Thermal annealing and air exposing effect on the graphene/silicon Schottky junctions. Solid State Communications, 2015, 201, 115-119.	0.9	4
66	Thermal conductivity of one-dimensional organic nanowires: effect of mass difference phonon scattering. Nanotechnology, 2020, 31, 324003.	1.3	3
67	Thermal percolation and electrical insulation in composite materials with partially metallic coated fillers. Applied Physics Letters, 2021, 119, .	1.5	3
68	Thermal Transport across Polyethylene Chains. Journal of Thermal Science, 2022, 31, 1061-1067.	0.9	2
69	Effect of Singwi-Tosi-Land-Sjölander 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
70	3D Printing: 3D Printing Fabrication of Amorphous Thermoelectric Materials with Ultralow Thermal Conductivity (Small 44/2015). Small, 2015, 11, 5888-5888.	5.2	1
71	Spin-dependent Seebeck effect in asymmetric four-terminal systems with Rashba spin-orbit coupling. Europhysics Letters, 2015, 110, 38004.	0.7	1
72	Thermal relaxation of magnons and phonons near resonance points in magnetic insulators. Europhysics Letters, 2020, 129, 57001.	0.7	1

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73	Artificial microstructure materials and heat flux manipulation. Zhongguo Kexue Jishu Kexue/Scientia Sinica Technologica, 2015, 45, 705-713.	0.3	1
74	Dimension reduction induced anisotropic magnetic thermal conductivity in hematite nanowires. Physical Review B, 2021, 104, .	1.1	1
75	Optical Response of Graphene under Intense Terahertz Fields. , 2017, , 243-268.		0