

Zhiting Tian

List of Publications by Year in descending order

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66
papers

3,517
citations

159358

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docs citations

66
times ranked

3927
citing authors

#	ARTICLE	IF	CITATIONS
1	High thermal conductivity and ultrahigh thermal boundary conductance of homoepitaxial AlN thin films. <i>APL Materials</i> , 2022, 10, .	2.2	12
2	Thermal Percolation in Well-Defined Nanocomposite Thin Films. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 14579-14587.	4.0	7
3	Thermal interface doping strategies based on Bayesian optimization. <i>Surfaces and Interfaces</i> , 2022, 30, 101847.	1.5	2
4	Pore-Confined Polymers Enhance the Thermal Conductivity of Polymer Nanocomposites. <i>ACS Macro Letters</i> , 2022, 11, 116-120.	2.3	3
5	Large thermal conductivity of boron suboxides despite complex structures. <i>Applied Physics Letters</i> , 2021, 118, .	1.5	8
6	Direct observation of phonon Anderson localization in Si/Ge aperiodic superlattices. <i>Physical Review B</i> , 2021, 103, .	1.1	24
7	Applications and Impacts of Nanoscale Thermal Transport in Electronics Packaging. <i>Journal of Electronic Packaging, Transactions of the ASME</i> , 2021, 143, .	1.2	38
8	Thermal Transport in Polymers: A Review. <i>Journal of Heat Transfer</i> , 2021, 143, .	1.2	32
9	Doping-Enabled Reconfigurable Strongly Correlated Phase in a Quasi-2D Perovskite. <i>Journal of Physical Chemistry Letters</i> , 2021, 12, 5091-5098.	2.1	1
10	Remarkably Weak Anisotropy in Thermal Conductivity of Two-Dimensional Hybrid Perovskite Butylammonium Lead Iodide Crystals. <i>Nano Letters</i> , 2021, 21, 3708-3714.	4.5	26
11	Advances in phase-change materials. <i>Journal of Applied Physics</i> , 2021, 130, .	1.1	4
12	Topological phonon-magnon hybrid excitations in a two-dimensional honeycomb ferromagnet. <i>Physical Review B</i> , 2021, 104, .	1.1	2
13	Ultrahigh thermal conductivity in three-dimensional covalent organic frameworks. <i>Materials Today Physics</i> , 2021, 21, 100536.	2.9	9
14	Modeling of Organic Thermoelectric Material Properties. , 2021, , 241-258.		0
15	A Multi-Mode Four-Switch Buck-Boost Derived DC-DC Converter with an Intermediate Battery Interface for Solar Thermoelectric Generation. , 2021, , .		1
16	Thermal conductance across harmonic-matched epitaxial Al-sapphire heterointerfaces. <i>Communications Physics</i> , 2020, 3, .	2.0	41
17	Thermomechanical Analysis of a Bio-Inspired Lightweight Multifunctional Structure. <i>Advanced Engineering Materials</i> , 2020, 22, 2000371.	1.6	5
18	Single-Crystal SnSe Thermoelectric Fibers via Laser-Induced Directional Crystallization: From 1D Fibers to Multidimensional Fabrics. <i>Advanced Materials</i> , 2020, 32, e2002702.	11.1	57

#	ARTICLE	IF	CITATIONS
37	Tunable thermal conductivity of π -conjugated two-dimensional polymers. <i>Nanoscale</i> , 2018, 10, 13924-13929.	2.8	15
38	Thermal Transport Properties of Black Phosphorus: A Topical Review. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2017, 21, 45-57.	1.4	20
39	Effects of polymer topology and morphology on thermal transport: A molecular dynamics study of bottlebrush polymers. <i>Applied Physics Letters</i> , 2017, 110, .	1.5	46
40	A modeling comparison between a two-stage and three-stage cascaded thermoelectric generator. <i>Journal of Power Sources</i> , 2017, 365, 266-272.	4.0	43
41	Unusually low and density-insensitive thermal conductivity of three-dimensional gyroid graphene. <i>Nanoscale</i> , 2017, 9, 13477-13484.	2.8	38
42	Thermoelectric properties of crystalline and amorphous polypyrrole: A computational study. <i>Applied Thermal Engineering</i> , 2017, 111, 1441-1447.	3.0	34
43	Toward enhancing thermal conductivity of polymer-based thin films for microelectronics cooling. , 2017, , .		1
44	Boron arsenide phonon dispersion from inelastic x-ray scattering: Potential for ultrahigh thermal conductivity. <i>Physical Review B</i> , 2016, 94, .	1.1	29
45	Importance of the Hubbard correction on the thermal conductivity calculation of strongly correlated materials: a case study of ZnO. <i>Scientific Reports</i> , 2016, 6, 36875.	1.6	16
46	Effects of polymer chain confinement on thermal conductivity of ultrathin amorphous polystyrene films. <i>Applied Physics Letters</i> , 2015, 107, .	1.5	45
47	Thermal Interface Conductance Between Aluminum and Silicon by Molecular Dynamics Simulations. <i>Journal of Computational and Theoretical Nanoscience</i> , 2015, 12, 168-174.	0.4	78
48	Effects of Aperiodicity and Roughness on Coherent Heat Conduction in Superlattices. <i>Nanoscale and Microscale Thermophysical Engineering</i> , 2015, 19, 272-278.	1.4	56
49	Inelastic x-ray scattering measurements of phonon dispersion and lifetimes in $\text{PbTe}_{1-x}\text{Se}_x$ alloys. <i>Journal of Physics Condensed Matter</i> , 2015, 27, 375403.	0.7	14
50	First-principles simulation of electron mean-free-path spectra and thermoelectric properties in silicon. <i>Europhysics Letters</i> , 2015, 109, 57006.	0.7	144
51	Enhancing solid-liquid interface thermal transport using self-assembled monolayers. <i>Applied Physics Letters</i> , 2015, 106, .	1.5	65
52	Green's function studies of phonon transport across Si/Ge superlattices. <i>Physical Review B</i> , 2014, 89, .	1.1	60
53	Resonant bonding leads to low lattice thermal conductivity. <i>Nature Communications</i> , 2014, 5, 3525.	5.8	484
54	COMPREHENSIVE REVIEW OF HEAT TRANSFER IN THERMOELECTRIC MATERIALS AND DEVICES. <i>Annual Review of Heat Transfer</i> , 2014, 17, 425-483.	0.3	72

