

Chenhan Liu

List of Publications by Year in descending order

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Version: 2024-02-01

27
papers

427
citations

687363

13
h-index

752698

20
g-index

27
all docs

27
docs citations

27
times ranked

564
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Transport in Quasi-1D van der Waals Crystal Ta ₂ Pd ₃ Se ₈ Nanowires: Size and Length Dependence. ACS Nano, 2018, 12, 2634-2642.	14.6	61
2	Electric-Field-Controlled Thermal Switch in Ferroelectric Materials Using First-Principles Calculations and Domain-Wall Engineering. Physical Review Applied, 2019, 11, .	3.8	42
3	Distinct Signatures of Electron-Phonon Coupling Observed in the Lattice Thermal Conductivity of NbSe ₃ Nanowires. Nano Letters, 2019, 19, 415-421.	9.1	37
4	High ZT 2D Thermoelectrics by Design: Strong Interlayer Vibration and Complete Band-Extrema Alignment. Advanced Functional Materials, 2020, 30, 2001200.	14.9	32
5	Electron contributions to the heat conduction across Au/graphene/Au interfaces. Carbon, 2017, 115, 665-671.	10.3	24
6	Mean free path dependent phonon contributions to interfacial thermal conductance. Physics Letters, Section A: General, Atomic and Solid State Physics, 2017, 381, 1899-1904.	2.1	23
7	Large Thermal Conductivity Switch Ratio in Barium Titanate Under Electric Field through First-Principles Calculation. Advanced Theory and Simulations, 2018, 1, 1800098.	2.8	23
8	Bidirectional Tuning of Thermal Conductivity in Ferroelectric Materials Using E-Controlled Hysteresis Characteristic Property. Journal of Physical Chemistry C, 2020, 124, 26144-26152.	3.1	23
9	Phonon transport in graphene based materials. Physical Chemistry Chemical Physics, 2021, 23, 26030-26060.	2.8	20
10	The ignored effects of vibrational entropy and electrocaloric effect in PbTiO ₃ and PbZr _{0.5} Ti _{0.5} O ₃ as studied through first-principles calculation. Acta Materialia, 2020, 191, 221-229.	7.9	18
11	Pressure effects on the thermal resistance of few-layer graphene. Physics Letters, Section A: General, Atomic and Solid State Physics, 2016, 380, 248-254.	2.1	16
12	Effects of interfacial roughness on phonon transport in bilayer silicon thin films. Physical Review B, 2015, 92, .	3.2	14
13	Chemical looping combustion of sulfur paste to SO ₂ by phosphogypsum oxygen carrier for sulfur acid production. Fuel, 2022, 323, 124386.	6.4	13
14	Kink effects on thermal transport in silicon nanowires. International Journal of Heat and Mass Transfer, 2019, 137, 573-578.	4.8	12
15	The enhancement of heat conduction across the metal/graphite interface treated with a focused ion beam. Nanoscale, 2020, 12, 14838-14846.	5.6	12
16	The contact area dependent interfacial thermal conductance. AIP Advances, 2015, 5, .	1.3	10
17	Transient and steady state heat transport in layered materials from molecular dynamics simulation. International Journal of Heat and Mass Transfer, 2018, 121, 72-78.	4.8	8
18	Anomalous layer thickness dependent thermal conductivity of Td-WTe ₂ through first-principles calculation. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126751.	2.1	8

#	ARTICLE	IF	CITATIONS
19	The reservoir area dependent thermal transport at the nanoscale interface. Physical Chemistry Chemical Physics, 2020, 22, 22016-22022.	2.8	6
20	Cross-plane phonon transport properties of molybdenum disulphide. Journal Physics D: Applied Physics, 2015, 48, 465303.	2.8	5
21	Computational modeling of ionic currents through difform graphene nanopores with consistent cross-sectional areas. Physical Chemistry Chemical Physics, 2019, 21, 26166-26174.	2.8	5
22	Non-monotonic thickness dependent and anisotropic in-plane thermal transport in layered titanium trisulphide. Materials Today Nano, 2022, 17, 100165.	4.6	5
23	Influence of coherent optical phonon on ultrafast energy relaxation. Applied Physics Letters, 2015, 107, 063107.	3.3	4
24	The effects of contact atom distribution at the interface on the phonon transport. Physical Chemistry Chemical Physics, 2020, 22, 27690-27697.	2.8	3
25	Axial tensile strain effects on the contact thermal conductance between cross contacted single-walled carbon nanotubes. Journal of Applied Physics, 2017, 121, .	2.5	2
26	Non-Monotonic Thickness Dependent Hydrodynamic Phonon Transport in Layered Titanium Trisulphide: First-Principles Calculation and Improved Callaway Model Fitting. ES Energy & Environments, 2021, , .	1.1	1
27	Pressure Effects on the Thermal Properties of Graphite. , 2016, , .		0