

Chenhan Liu

List of Publications by Year in descending order

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papers

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687363

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times ranked

564
citing authors

#	ARTICLE	IF	CITATIONS
1	Non-monotonic thickness dependent and anisotropic in-plane thermal transport in layered titanium trisulphide. <i>Materials Today Nano</i> , 2022, 17, 100165.	4.6	5
2	Chemical looping combustion of sulfur paste to SO ₂ by phosphogypsum oxygen carrier for sulfur acid production. <i>Fuel</i> , 2022, 323, 124386.	6.4	13
3	Phonon transport in graphene based materials. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 26030-26060.	2.8	20
4	Non-Monotonic Thickness Dependent Hydrodynamic Phonon Transport in Layered Titanium Trisulphide: First-Principles Calculation and Improved Callaway Model Fitting. <i>ES Energy & Environments</i> , 2021, , .	1.1	1
5	The effects of contact atom distribution at the interface on the phonon transport. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 27690-27697.	2.8	3
6	Bidirectional Tuning of Thermal Conductivity in Ferroelectric Materials Using E-Controlled Hysteresis Characteristic Property. <i>Journal of Physical Chemistry C</i> , 2020, 124, 26144-26152.	3.1	23
7	Anomalous layer thickness dependent thermal conductivity of Td-WTe ₂ through first-principles calculation. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126751.	2.1	8
8	The reservoir area dependent thermal transport at the nanoscale interface. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 22016-22022.	2.8	6
9	The enhancement of heat conduction across the metal/graphite interface treated with a focused ion beam. <i>Nanoscale</i> , 2020, 12, 14838-14846.	5.6	12
10	High ZT 2D Thermoelectrics by Design: Strong Interlayer Vibration and Complete Band Extrema Alignment. <i>Advanced Functional Materials</i> , 2020, 30, 2001200.	14.9	32
11	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. <i>Acta Materialia</i> , 2020, 191, 221-229.	7.9	18
12	Electric-Field-Controlled Thermal Switch in Ferroelectric Materials Using First-Principles Calculations and Domain-Wall Engineering. <i>Physical Review Applied</i> , 2019, 11, .	3.8	42
13	Kink effects on thermal transport in silicon nanowires. <i>International Journal of Heat and Mass Transfer</i> , 2019, 137, 573-578.	4.8	12
14	Computational modeling of ionic currents through difform graphene nanopores with consistent cross-sectional areas. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 26166-26174.	2.8	5
15	Distinct Signatures of Electron-Phonon Coupling Observed in the Lattice Thermal Conductivity of NbSe ₃ Nanowires. <i>Nano Letters</i> , 2019, 19, 415-421.	9.1	37
16	Thermal Transport in Quasi-1D van der Waals Crystal Ta ₂ Pd ₃ Se ₈ Nanowires: Size and Length Dependence. <i>ACS Nano</i> , 2018, 12, 2634-2642.	14.6	61
17	Transient and steady state heat transport in layered materials from molecular dynamics simulation. <i>International Journal of Heat and Mass Transfer</i> , 2018, 121, 72-78.	4.8	8
18	Large Thermal Conductivity Switch Ratio in Barium Titanate Under Electric Field through First-Principles Calculation. <i>Advanced Theory and Simulations</i> , 2018, 1, 1800098.	2.8	23

#	ARTICLE	IF	CITATIONS
19	Electron contributions to the heat conduction across Au/graphene/Au interfaces. Carbon, 2017, 115, 665-671.	10.3	24
20	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
21	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
22	Pressure Effects on the Thermal Properties of Graphite. , 2016, , .		0
23	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
24	Effects of interfacial roughness on phonon transport in bilayer silicon thin films. Physical Review B, 2015, 92, .	3.2	14
25	Influence of coherent optical phonon on ultrafast energy relaxation. Applied Physics Letters, 2015, 107, 063107.	3.3	4
26	The contact area dependent interfacial thermal conductance. AIP Advances, 2015, 5, .	1.3	10
27	Cross-plane phonon transport properties of molybdenum disulphide. Journal Physics D: Applied Physics, 2015, 48, 465303.	2.8	5