

Yi Tao

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7560046/publications.pdf>

Version: 2024-02-01

21
papers

319
citations

840776

11
h-index

839539

18
g-index

21
all docs

21
docs citations

21
times ranked

358
citing authors

#	ARTICLE	IF	CITATIONS
1	Observation of superdiffusive phonon transport in aligned atomic chains. <i>Nature Nanotechnology</i> , 2021, 16, 764-768.	31.5	43
2	Electrical and Thermal Transport through Silver Nanowires and Their Contacts: Effects of Elastic Stiffening. <i>Nano Letters</i> , 2020, 20, 7389-7396.	9.1	40
3	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
4	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
5	High thermoelectric figure of merit of porous Si nanowires from 300 to 700 K. <i>Nature Communications</i> , 2021, 12, 3926.	12.8	26
6	Mean free path dependent phonon contributions to interfacial thermal conductance. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2017, 381, 1899-1904.	2.1	23
7	Resonance in Atomic-Scale Sliding Friction. <i>Nano Letters</i> , 2021, 21, 4615-4621.	9.1	20
8	Surface Charge Density Inside a Silicon Nitride Nanopore. <i>Langmuir</i> , 2021, 37, 10521-10528.	3.5	15
9	Selective ion-permeation through strained and charged graphene membranes. <i>Nanotechnology</i> , 2018, 29, 035402.	2.6	14
10	Bidirectional Modulation of Contact Thermal Resistance between Boron Nitride Nanotubes from a Polymer Interlayer. <i>Nano Letters</i> , 2021, 21, 7317-7324.	9.1	14
11	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
12	Thermal Bubble Nucleation in Graphene Nanochannels. <i>Journal of Physical Chemistry C</i> , 2019, 123, 3482-3490.	3.1	11
13	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
14	Experimental measurement of thermal conductivity along different crystallographic planes in graphite. <i>Journal of Applied Physics</i> , 2020, 128, .	2.5	6
15	Net negative contributions of free electrons to the thermal conductivity of NbSe ₃ nanowires. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 21131-21138.	2.8	4
16	Remarkable suppression of lattice thermal conductivity by electron-phonon scattering in iridium dioxide nanowires. <i>Materials Today Physics</i> , 2021, 21, 100517.	6.0	4
17	Modulating thermal conductance across the metal/graphene/SiO ₂ interface with ion irradiation. <i>Physical Chemistry Chemical Physics</i> , 2021, 23, 22760-22767.	2.8	4
18	Theory of aerodynamic heating from molecular collision analysis. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2020, 384, 126098.	2.1	2

#	ARTICLE	IF	CITATIONS
19	Effective Lorenz Number of the Point Contact between Silver Nanowires. Nano Letters, 2020, 20, 8576-8583.	9.1	2
20	Non-monotonic boundary resistivity for electron transport in metal nanowires. Applied Physics Letters, 2021, 118, 153105.	3.3	2
21	Anisotropic phonon transport in van der Waals nanostructures. Physics Letters, Section A: General, Atomic and Solid State Physics, 2022, 427, 127920.	2.1	0