

Guofeng Xie

List of Publications by Year in descending order

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29
papers

1,135
citations

471509

17
h-index

501196

28
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29
all docs

29
docs citations

29
times ranked

1036
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal Conductivity of Amorphous Materials. <i>Advanced Functional Materials</i> , 2020, 30, 1903829.	14.9	149
2	Monolayer SnP ₃ : an excellent p-type thermoelectric material. <i>Nanoscale</i> , 2019, 11, 19923-19932.	5.6	119
3	Ultra-low thermal conductivity of two-dimensional phononic crystals in the incoherent regime. <i>Npj Computational Materials</i> , 2018, 4, .	8.7	99
4	A Bond-order Theory on the Phonon Scattering by Vacancies in Two-dimensional Materials. <i>Scientific Reports</i> , 2014, 4, 5085.	3.3	91
5	Phonon coherence and its effect on thermal conductivity of nanostructures. <i>Advances in Physics: X</i> , 2018, 3, 1480417.	4.1	82
6	KAgX (X = S, Se): High-Performance Layered Thermoelectric Materials for Medium-Temperature Applications. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36102-36109.	8.0	68
7	Î±-Ag ₂ S: A Ductile Thermoelectric Material with High <i>ZT</i> . <i>ACS Omega</i> , 2020, 5, 5796-5804.	3.5	64
8	Quantifying phonon particle and wave transport in silicon nanophononic metamaterial with cross junction. <i>Materials Today Physics</i> , 2019, 8, 56-61.	6.0	55
9	High Thermoelectric Performance of New Two-Dimensional IVâ€™VI Compounds: A First-Principles Study. <i>Journal of Physical Chemistry C</i> , 2020, 124, 1812-1819.	3.1	51
10	Phonon surface scattering controlled length dependence of thermal conductivity of silicon nanowires. <i>Physical Chemistry Chemical Physics</i> , 2013, 15, 14647.	2.8	48
11	Phonon mean free path spectrum and thermal conductivity for Si1â€™xGex nanowires. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	46
12	First-principles study of thermal transport properties in the two- and three-dimensional forms of Bi ₂ O ₂ Se. <i>Physical Chemistry Chemical Physics</i> , 2019, 21, 10931-10938.	2.8	43
13	Thermal Conductivity: Thermal Conductivity of Amorphous Materials (<i>Adv. Funct. Mater.</i> 8/2020). <i>Advanced Functional Materials</i> , 2020, 30, 2070048.	14.9	30
14	Size and boundary scattering controlled contribution of spectral phonons to the thermal conductivity in graphene ribbons. <i>Journal of Applied Physics</i> , 2014, 115, .	2.5	28
15	Upcycling Silicon Photovoltaic Waste into Thermoelectrics. <i>Advanced Materials</i> , 2022, 34, e2110518.	21.0	25
16	Thermoelectric Properties of Hexagonal M2C3 (M = As, Sb, and Bi) Monolayers from First-Principles Calculations. <i>Nanomaterials</i> , 2019, 9, 597.	4.1	22
17	Remarkable suppression of thermal conductivity by point defects in MoS ₂ nanoribbons. <i>Applied Surface Science</i> , 2016, 360, 107-112.	6.1	19
18	Size and edge roughness dependence of thermal conductivity for vacancy-defective graphene ribbons. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 8822-8827.	2.8	16

#	ARTICLE	IF	CITATIONS
19	Thermal transport in lithium-ion battery: A micro perspective for thermal management. <i>Frontiers of Physics</i> , 2022, 17, 1.	5.0	14
20	Significant enhancement of the thermoelectric properties of CaP_3 through reducing the dimensionality. <i>Materials Advances</i> , 2020, 1, 3322-3332.	5.4	14
21	Significant reduction of thermal conductivity in silicon nanowires by shell doping. <i>RSC Advances</i> , 2013, 3, 26074.	3.6	13
22	Modification of thermal transport in few-layer MoS_2 by atomic-level defect engineering. <i>Nanoscale</i> , 2021, 13, 11561-11567.	5.6	12
23	Probing thermal transport across amorphous region embedded in a single crystalline silicon nanowire. <i>Scientific Reports</i> , 2020, 10, 821.	3.3	7
24	First-Principles Calculations on Thermoelectric Properties of Layered Transition Metal Phosphides MP_2 (M = Ni, Pd, Pt). <i>Journal of Electronic Materials</i> , 2021, 50, 2510-2520.	2.2	6
25	Enhanced thermoelectric properties in two-dimensional monolayer Si_2BN by adsorbing halogen atoms*. <i>Chinese Physics B</i> , 2021, 30, 037304.	1.4	6
26	Enhancement of thermoelectric performance in graphenylene nanoribbons by suppressing phonon thermal conductance: the role of phonon local resonance. <i>Nanotechnology</i> , 2022, 33, 215402.	2.6	5
27	Thermoelectric Properties of Arsenic Triphosphide (AsP_3) Monolayer: A First-Principles Study. <i>Frontiers in Mechanical Engineering</i> , 2021, 7, .	1.8	2
28	Proton radiation damage in SrTiO_3 thin film by computer simulation. <i>Radiation Effects and Defects in Solids</i> , 2013, 168, 959-966.	1.2	1
29	Upcycling Silicon Photovoltaic Waste into Thermoelectrics (<i>Adv. Mater.</i> 19/2022). <i>Advanced Materials</i> , 2022, 34, .	21.0	0