Guofeng Xie

List of Publications by Year
in descending order

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29	1,135	471509	501196
papers	citations	17 h-index	28 g-index

29	29	29	1036
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal transport in lithium-ion battery: A micro perspective for thermal management. Frontiers of Physics, 2022, 17, 1.	5.0	14
2	Enhancement of thermoelectric performance in graphenylene nanoribbons by suppressing phonon thermal conductance: the role of phonon local resonance. Nanotechnology, 2022, 33, 215402.	2.6	5
3	Upcycling Silicon Photovoltaic Waste into Thermoelectrics. Advanced Materials, 2022, 34, e2110518.	21.0	25
4	Upcycling Silicon Photovoltaic Waste into Thermoelectrics (Adv. Mater. 19/2022). Advanced Materials, 2022, 34, .	21.0	0
5	Modification of thermal transport in few-layer MoS₂ by atomic-level defect engineering. Nanoscale, 2021, 13, 11561-11567.	5.6	12
6	First-Principles Calculations on Thermoelectric Properties of Layered Transition Metal Phosphides MP2 (M = Ni, Pd, Pt). Journal of Electronic Materials, 2021, 50, 2510-2520.	2.2	6
7	Enhanced thermoelectric properties in two-dimensional monolayer Si₂BN by adsorbing halogen atoms*. Chinese Physics B, 2021, 30, 037304.	1.4	6
8	Thermoelectric Properties of Arsenic Triphosphide (AsP3) Monolayer: A First-Principles Study. Frontiers in Mechanical Engineering, 2021, 7, .	1.8	2
9	Thermal Conductivity of Amorphous Materials. Advanced Functional Materials, 2020, 30, 1903829.	14.9	149
10	High Thermoelectric Performance of New Two-Dimensional IVâ€“VI Compounds: A First-Principles Study. Journal of Physical Chemistry C, 2020, 124, 1812-1819.	3.1	51
11	KAgX (X = S, Se): High-Performance Layered Thermoelectric Materials for Medium-Temperature Applications. ACS Applied Materials & Interfaces, 2020, 12, 36102-36109.	8.0	68
12	Î±-Ag₂S: A Ductile Thermoelectric Material with High ZT. ACS Omega, 2020, 5, 5796-5804.	3.5	64
13	Probing thermal transport across amorphous region embedded in a single crystalline silicon nanowire. Scientific Reports, 2020, 10, 821.	3.3	7
14	Thermal Conductivity: Thermal Conductivity of Amorphous Materials (Adv. Funct. Mater. 8/2020). Advanced Functional Materials, 2020, 30, 2070048.	14.9	30
15	Significant enhancement of the thermoelectric properties of CaP₃ through reducing the dimensionality. Materials Advances, 2020, 1, 3322-3332.	5.4	14
16	Quantifying phonon particle and wave transport in silicon nanophononic metamaterial with cross junction. Materials Today Physics, 2019, 8, 56-61.	6.0	55
17	First-principles study of thermal transport properties in the two- and three-dimensional forms of Bi₂O₂Se. Physical Chemistry Chemical Physics, 2019, 21, 10931-10938.	2.8	43
18	Thermoelectric Properties of Hexagonal M2C3 (M = As, Sb, and Bi) Monolayers from First-Principles Calculations. Nanomaterials, 2019, 9, 597.	4.1	22

#	Article	IF	Citations
19	Monolayer SnP₃: an excellent p-type thermoelectric material. Nanoscale, 2019, 11, 19923-19932.	5.6	119
20	Ultra-low thermal conductivity of two-dimensional phononic crystals in the incoherent regime. Npj Computational Materials, 2018, 4, .	8.7	99
21	Phonon coherence and its effect on thermal conductivity of nanostructures. Advances in Physics: X, 2018, 3, 1480417.	4.1	82
22	Remarkable suppression of thermal conductivity by point defects in MoS 2 nanoribbons. Applied Surface Science, 2016, 360, 107-112.	6.1	19
23	Size and edge roughness dependence of thermal conductivity for vacancy-defective graphene ribbons. Physical Chemistry Chemical Physics, 2015, 17, 8822-8827.	2.8	16
24	Phonon mean free path spectrum and thermal conductivity for Si1â^'xGex nanowires. Applied Physics Letters, 2014, 104, .	3.3	46
25	Size and boundary scattering controlled contribution of spectral phonons to the thermal conductivity in graphene ribbons. Journal of Applied Physics, 2014, 115, .	2.5	28
26	A Bond-order Theory on the Phonon Scattering by Vacancies in Two-dimensional Materials. Scientific Reports, 2014, 4, 5085.	3.3	91
27	Proton radiation damage in SrTiO3thin film by computer simulation. Radiation Effects and Defects in Solids, 2013, 168, 959-966.	1.2	1
28	Phonon surface scattering controlled length dependence of thermal conductivity of silicon nanowires. Physical Chemistry Chemical Physics, 2013, 15, 14647.	2.8	48
29	Significant reduction of thermal conductivity in silicon nanowires by shell doping. RSC Advances, 2013, 3, 26074.	3.6	13