Xiaoxiang Yu

List of Publications by Year
in descending order

22 papers	607 citations	623734 14 h-index	713466 21 g-index
23 all docs	23 docs citations	23 times ranked	529 citing authors

#	Article	IF	Citations
1	Generalized Two-Temperature Model for Coupled Phonons in Nanosized Graphene. Nano Letters, 2017, 17, 5805-5810.	9.1	64
2	High Thermal Conductivity of Bulk Epoxy Resin by Bottom-Up Parallel-Linking and Strain: A Molecular Dynamics Study. Journal of Physical Chemistry C, 2018, 122, 13140-13147.	3.1	62
3	Enhancing the Thermoelectric Figure of Merit by Low-Dimensional Electrical Transport in Phonon-Glass Crystals. Nano Letters, 2015, 15, 5229-5234.	9.1	55
4	Electric-field-induced modulation of thermal conductivity in poly(vinylidene fluoride). Nano Energy, 2021, 82, 105749.	16.0	45
5	Unexpectedly high cross-plane thermoelectric performance of layered carbon nitrides. Journal of Materials Chemistry A, 2019, 7, 2114-2121.	10.3	44
6	Superior thermal conductivity of poly (ethylene oxide) for solid-state electrolytes: A molecular dynamics study. International Journal of Heat and Mass Transfer, 2019, 137, 1241-1246.	4.8	43
7	A Review of Thermal Transport in Low-Dimensional Materials Under External Perturbation: Effect of Strain, Substrate, and Clustering. Nanoscale and Microscale Thermophysical Engineering, 2017, 21, 201-236.	2.6	38
8	Hybrid Thermal Transport Characteristics of Doped Organic Semiconductor Poly(3,4-ethylenedioxythiophene):Tosylate. Journal of Physical Chemistry C, 2019, 123, 26735-26741.	3.1	35
9	Mass difference and polarization lead to low thermal conductivity of graphene-like carbon nitride (C3N). Carbon, 2020, 162, 202-208.	10.3	35
10	Thermally-Responsive Hydrogels Poly(<i>N</i>-Isopropylacrylamide) as the Thermal Switch. Journal of Physical Chemistry C, 2019, 123, 31003-31010.	3.1	28
11	Thermal conductivity of molybdenum disulfide nanotube from molecular dynamics simulations. International Journal of Heat and Mass Transfer, 2019, 145, 118719.	4.8	25
12	Ultralow thermal conductance of the van der Waals interface between organic nanoribbons. Materials Today Physics, 2019, 11, 100139.	6.0	25
13	How Does van der Waals Confinement Enhance Phonon Transport?*. Chinese Physics Letters, 2021, 38, 014401.	3.3	24
14	A cross-interface model for thermal transport across the interface between overlapped nanoribbons. Physical Chemistry Chemical Physics, 2019, 21, 25072-25079.	2.8	20
15	Enhancement of Interfacial Thermal Conductance of SiC by Overlapped Carbon Nanotubes and Intertube Atoms. Journal of Heat Transfer, 2017, 139, .	2.1	14
16	<i>Ab initio</i> validation on the connection between atomistic and hydrodynamic description to unravel the ion dynamics of warm dense matter. Physical Review Research, 2021, 3, .	3.6	14
17	Reduction of interfacial thermal resistance of overlapped graphene by bonding carbon chains*. Chinese Physics B, 2020, 29, 126303.	1.4	11
18	Direct Visualization and Manipulation of Stacking Orders in Few-Layer Graphene by Dynamic Atomic Force Microscopy. Journal of Physical Chemistry Letters, 2021, 12, 7328-7334.	4.6	9

#	Article	IF	Citations
19	Evidence of spin reorientation and anharmonicity in kagome ferromagnet Fe3Sn2. Applied Physics Letters, 2021, 119, .	3.3	5
20	Phonon Thermal Transport Properties of Graphene Periodically Embedded with Four- and Eight-membered Rings: a Molecular Dynamics Study. ES Materials & Manufacturing, 2018, , .	1.9	5
21	Nanoscale Topological Morphology Transition and Controllable Thermal Conductivity of Wrinkled Hexagonal Boron Nitride: Implications for Thermal Manipulation and Management. ACS Applied Nano Materials, 0, , .	5.0	3
22	Anomalous Impact of Surface Wettability on Leidenfrost Effect at Nanoscale. Chinese Physics Letters, 2021, 38, 094401.	3.3	3