Xue-Kun Chen

List of Publications by Year
in descending order

19	779	687363 13	794594 19
papers	citations	h-index	g-index

19	19	19	599
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Thermal rectification and negative differential thermal resistance behaviors in graphene/hexagonal boron nitride heterojunction. Carbon, 2016, 100, 492-500.	10.3	108
2	Tunable anisotropic thermal transport in porous carbon foams: The role of phonon coupling. International Journal of Mechanical Sciences, 2021, 206, 106576.	6.7	96
3	Phonon wave interference in graphene and boron nitride superlattice. Applied Physics Letters, 2016, 109, 023101.	3.3	94
4	Thermal transport of carbon nanomaterials. Journal of Physics Condensed Matter, 2020, 32, 153002.	1.8	94
5	A local resonance mechanism for thermal rectification in pristine/branched graphene nanoribbon junctions. Applied Physics Letters, 2018, 113, .	3.3	72
6	A wave-dominated heat transport mechanism for negative differential thermal resistance in graphene/hexagonal boron nitride heterostructures. Applied Physics Letters, 2017, 110, .	3.3	63
7	Thermal Rectification in Asymmetric Graphene/Hexagonal Boron Nitride van der Waals Heterostructures. ACS Applied Materials & Interfaces, 2020, 12, 15517-15526.	8.0	55
8	Highly efficient thermal rectification in carbon/boron nitride heteronanotubes. Carbon, 2019, 148, 532-539.	10.3	44
9	Tunable thermal rectification in graphene/hexagonal boron nitride hybrid structures. Journal Physics D: Applied Physics, 2018, 51, 085103.	2.8	23
10	The thermal conductivity in hybridised graphene and boron nitride nanoribbons modulated with strain. Journal Physics D: Applied Physics, 2016, 49, 115301.	2.8	21
11	Thermal Transport in Two-Dimensional Heterostructures. Frontiers in Materials, 2020, 7, .	2.4	21
12	High interfacial thermal conductance across heterogeneous GaN/graphene interface. Applied Surface Science, 2022, 581, 152344.	6.1	21
13	Anisotropic thermal conductivity in carbon honeycomb. Journal of Physics Condensed Matter, 2018, 30, 155702.	1.8	15
14	Adsorption and desorption of hydrogen on/from single-vacancy and double-vacancy graphenes. Nuclear Science and Techniques/Hewuli, 2019, 30, 1.	3.4	14
15	Excellent Medium-Temperature Thermoelectric Performance of Monolayer BiOCl. Langmuir, 2022, 38, 7733-7739.	3.5	13
16	Thermal transport properties in monolayer group-IV binary compounds. Journal of Physics Condensed Matter, 2020, 32, 305301.	1.8	10
17	Anomalous thermal conductance of graphyne under lower temperature. Journal of Physics Condensed Matter, 2017, 29, 455702.	1.8	7
18	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

#	Article	IF	Citations
19	Modulation of thermal transport in AlxGa1â^'xAs alloy nanowires with varying compositions. Applied Physics Letters, 2020, 116, .	3.3	3