Huimin Wang

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/3978826/publications.pdf

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12	570	759233 12	1199594 12
papers	citations	h-index	g-index

12	12	12	596
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Resonant bonding driven giant phonon anharmonicity and low thermal conductivity of phosphorene. Physical Review B, 2016, 94, .	3.2	114
2	Anomalously temperature-dependent thermal conductivity of monolayer GaN with large deviations from the traditional <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mi>T</mml:mi></mml:math law. Physical Review B, 2017, 95, .	3.2	101
3	First-principles study of electronic, optical and thermal transport properties of group IIIâ€“VI monolayer MX (Mâ€‰=â€‰Ga, In; Xâ€‰=â€‰S, Se). Journal of Applied Physics, 2019, 125, .	2.5	61
4	Low thermal conductivity of monolayer ZnO and its anomalous temperature dependence. Physical Chemistry Chemical Physics, 2017, 19, 12882-12889.	2.8	55
5	Lone-pair electrons induced anomalous enhancement of thermal transport in strained planar two-dimensional materials. Nano Energy, 2018, 50, 425-430.	16.0	55
6	Structure and properties of Co-doped ZnO films prepared by thermal oxidization under a high magnetic field. Nanoscale Research Letters, 2015, 10, 112.	5.7	44
7	Lone-Pair Electrons Do Not Necessarily Lead to Low Lattice Thermal Conductivity: An Exception of Two-Dimensional Penta-CN₂. Journal of Physical Chemistry Letters, 2018, 9, 2474-2483.	4.6	38
8	Giant effect of spinâ€“lattice coupling on the thermal transport in two-dimensional ferromagnetic CrI₃. Journal of Materials Chemistry C, 2020, 8, 3520-3526.	5.5	31
9	Intrinsically low lattice thermal conductivity of monolayer hexagonal aluminum nitride (h-AlN) from first-principles: A comparative study with graphene. International Journal of Thermal Sciences, 2021, 162, 106772.	4.9	23
10	The exceptionally high thermal conductivity after â€˜alloyingâ€™ two-dimensional gallium nitride (GaN) and aluminum nitride (AlN). Nanotechnology, 2021, 32, 135401.	2.6	22
11	Abnormal enhancement of thermal conductivity by planar structure: A comparative study of graphene-like materials. International Journal of Thermal Sciences, 2022, 174, 107438.	4.9	14
12	Unconventional thermal transport enhancement with large atom mass: a comparative study of 2D transition dichalcogenides. 2D Materials, 2018, 5, 015022.	4.4	12