

# Huimin Wang

## List of Publications by Year in descending order

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Version: 2024-02-01

12  
papers

570  
citations

759233

12  
h-index

1199594

12  
g-index

12  
all docs

12  
docs citations

12  
times ranked

596  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	The exceptionally high thermal conductivity after "alloying" two-dimensional gallium nitride (GaN) and aluminum nitride (AlN). Nanotechnology, 2021, 32, 135401.	2.6	22
3	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
4	Giant effect of spin-lattice coupling on the thermal transport in two-dimensional ferromagnetic CrI <sub>3</sub> . Journal of Materials Chemistry C, 2020, 8, 3520-3526.	5.5	31
5	First-principles study of electronic, optical and thermal transport properties of group III-VI monolayer MX (M=Ga, In; X=S, Se). Journal of Applied Physics, 2019, 125, .	2.5	61
6	Lone-Pair Electrons Do Not Necessarily Lead to Low Lattice Thermal Conductivity: An Exception of Two-Dimensional Penta-CN <sub>2</sub> . Journal of Physical Chemistry Letters, 2018, 9, 2474-2483.	4.6	38
7	Unconventional thermal transport enhancement with large atom mass: a comparative study of 2D transition dichalcogenides. 2D Materials, 2018, 5, 015022.	4.4	12
8	Lone-pair electrons induced anomalous enhancement of thermal transport in strained planar two-dimensional materials. Nano Energy, 2018, 50, 425-430.	16.0	55
9	Low thermal conductivity of monolayer ZnO and its anomalous temperature dependence. Physical Chemistry Chemical Physics, 2017, 19, 12882-12889.	2.8	55
10	Anomalously temperature-dependent thermal conductivity of monolayer GaN with large deviations from the traditional $\kappa \propto T^{-1}$ law. Physical Review B, 2017, 95, .	3.2	101
11	Resonant bonding driven giant phonon anharmonicity and low thermal conductivity of phosphorene. Physical Review B, 2016, 94, .	3.2	114
12	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