

Xin Chen

List of Publications by Year in descending order

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Version: 2024-02-01

30
papers

767
citations

687363

13
h-index

526287

27
g-index

30
all docs

30
docs citations

30
times ranked

948
citing authors

#	ARTICLE	IF	CITATIONS
1	Importance of non-parabolic band effects in the thermoelectric properties of semiconductors. Scientific Reports, 2013, 3, 3168.	3.3	147
2	Enhanced thermoelectric performance of PbTe within the orthorhombic $Pn\bar{m}$ structure. Physical Review B, 2007, 76, .	3.2	107
3	qvasp: A flexible toolkit for VASP users in materials simulations. Computer Physics Communications, 2020, 257, 107535.	7.5	88
4	Boron-oxygen complex yields n-type surface layer in semiconducting diamond. Proceedings of the National Academy of Sciences of the United States of America, 2019, 116, 7703-7711.	7.1	60
5	Potential thermoelectric performance of hole-doped Cu_2O . New Journal of Physics, 2013, 15, 043029.	2.9	47
6	Ultrahigh Thermoelectric Performance Realized in Black Phosphorus System by Favorable Band Engineering through Group VA Doping. Advanced Functional Materials, 2019, 29, 1904346.	14.9	41
7	HgTe: A potential thermoelectric material in the cinnabar phase. Journal of Chemical Physics, 2008, 128, 194713.	3.0	33
8	Atomistic Design of High Thermoelectricity on Si/Ge Superlattice Nanowires. Journal of Physical Chemistry C, 2011, 115, 20696-20702.	3.1	30
9	Origin of the High Thermoelectric Performance in Si Nanowires: A First-Principle Study. Journal of Physical Chemistry C, 2009, 113, 14001-14005.	3.1	25
10	Superconducting boron allotropes. Physical Review B, 2020, 101, .	3.2	18
11	Pressure-driven significant phonon mode softening and robust superconductivity in layered germanium phosphide. Journal of Materials Chemistry A, 2020, 8, 20054-20061.	10.3	17
12	High-pressure structures and metallization of sodium chloride. Europhysics Letters, 2012, 100, 26005.	2.0	16
13	Superior Conversion Efficiency Achieved in GeP_3/h -BN Heterostructures as Novel Flexible and Ultralight Thermoelectrics. ACS Applied Materials & Interfaces, 2021, 13, 18800-18808.	8.0	14
14	Packing high-energy together: Binding the power of pentazolate and high-valence metals with strong bonds. Materials and Design, 2020, 193, 108820.	7.0	14
15	Enhanced Thermoelectric Performance in Black Phosphorus Nanotubes by Band Modulation through Tailoring Nanotube Chirality. Small, 2020, 16, e2001820.	10.0	13
16	Stable CsPbX ₃ mixed halide alloyed epitaxial films prepared by pulsed laser deposition. Applied Physics Letters, 2022, 120, .	3.3	13
17	Polarization-enhanced bulk photovoltaic effect of BiFeO ₃ epitaxial film under standard solar illumination. Physics Letters, Section A: General, Atomic and Solid State Physics, 2020, 384, 126831.	2.1	11
18	Prediction of enhanced thermoelectric performance in two-dimensional black phosphorus nanosheets. Vacuum, 2021, 183, 109790.	3.5	10

#	ARTICLE	IF	CITATIONS
19	Fabrication of Alkali Metal Boride: Honeycomb-Like Structured NaB ₄ with High Hardness and Excellent Electrical Conductivity. <i>Advanced Functional Materials</i> , 0, , 2110872.	14.9	9
20	Synthesis of Highly Stable One-Dimensional Black Phosphorus/h-BN Heterostructures: A Novel Flexible Electronic Platform. <i>Chinese Physics Letters</i> , 2020, 37, 076203.	3.3	8
21	Enhanced strength of nano-polycrystalline diamond by introducing boron carbide interlayers at the grain boundaries. <i>Nanoscale Advances</i> , 2020, 2, 691-698.	4.6	7
22	Prediction of a novel robust superconducting state in TaS ₂ under high pressure. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 8827-8833.	2.8	7
23	Emergence of high superconductivity in a layered TaS ₃ crystal. <i>Journal of Materials Chemistry C</i> , 2022, 10, 2089-2094.	5.5	7
24	Remarkable electronic band structure leads to high thermoelectric properties in p-type β -Cu ₂ S. <i>Vacuum</i> , 2019, 170, 108964.	3.5	6
25	Retainable Superconductivity and Structural Transition in 1T-TaSe ₂ Under High Pressure. <i>Inorganic Chemistry</i> , 2021, 60, 11385-11393.	4.0	5
26	Pressure-induced unexpected δ^2 oxidation states of bromine and superconductivity in magnesium bromide. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 3066-3072.	2.8	4
27	Predicted stable Li ₅ P ₂ and Li ₄ P at ambient pressure: novel high-performance anodes for lithium-ion batteries. <i>Physical Chemistry Chemical Physics</i> , 2020, 22, 19172-19177.	2.8	4
28	Discovery of pressure-induced monoclinic to monoclinic phase transition above 60 GPa in single crystal NaAlSi ₂ O ₆ jadeite. <i>Journal of Raman Spectroscopy</i> , 2020, 51, 844-850.	2.5	3
29	Double-dome superconductivity in germanium phosphides. <i>Journal of Materials Chemistry C</i> , 2022, 10, 8617-8624.	5.5	2
30	Screening for new thermoelectric material: A semiconducting TaS ₃ with nanoporous structure. <i>Journal of Materiomics</i> , 2022, 8, 1031-1037.	5.7	1