

Yongsheng Zhang

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/7184472/publications.pdf>

Version: 2024-02-01

48
papers

5,956
citations

201385

27
h-index

205818

48
g-index

49
all docs

49
docs citations

49
times ranked

6214
citing authors

#	ARTICLE	IF	CITATIONS
1	Ultralow thermal conductivity and high thermoelectric figure of merit in SnSe crystals. Nature, 2014, 508, 373-377.	13.7	3,963
2	Origin of low thermal conductivity in SnSe. Physical Review B, 2016, 94, .	1.1	287
3	First-principles description of anomalously low lattice thermal conductivity in thermoelectric Cu-Sb-Se ternary semiconductors. Physical Review B, 2012, 85, .	1.1	196
4	Lattice thermal conductivity evaluated using elastic properties. Physical Review B, 2017, 95, .	1.1	114
5	Porous BN for hydrogen generation and storage. Journal of Materials Chemistry A, 2015, 3, 9632-9637.	5.2	83
6	Pressure induced thermoelectric enhancement in SnSe crystals. Journal of Materials Chemistry A, 2016, 4, 12073-12079.	5.2	81
7	Design of High-Performance Disordered Half-Heusler Thermoelectric Materials Using 18-Electron Rule. Advanced Functional Materials, 2019, 29, 1905044.	7.8	81
8	Synergistic band convergence and endotaxial nanostructuring: Achieving ultralow lattice thermal conductivity and high figure of merit in eco-friendly SnTe. Nano Energy, 2020, 67, 104261.	8.2	72
9	Lattice Strain Leads to High Thermoelectric Performance in Polycrystalline SnSe. ACS Nano, 2021, 15, 8204-8215.	7.3	66
10	Prediction of New Stable Compounds and Promising Thermoelectrics in the Cu-Sb-Se System. Chemistry of Materials, 2014, 26, 3427-3435.	3.2	64
11	Enhanced thermoelectric performance of $\text{In}_2\text{-Zn}_4\text{Sb}_3$ based nanocomposites through combined effects of density of states resonance and carrier energy filtering. Scientific Reports, 2015, 5, 17803.	1.6	58
12	Restructured single parabolic band model for quick analysis in thermoelectricity. Npj Computational Materials, 2021, 7, .	3.5	53
13	Dual effects of lone-pair electrons and rattling atoms in CuBiS_2 on its ultralow thermal conductivity. Physical Review B, 2017, 96, .	1.1	52
14	Screening Promising Thermoelectric Materials in Binary Chalcogenides through High-Throughput Computations. ACS Applied Materials & Interfaces, 2020, 12, 11852-11864.	4.0	51
15	Band structure engineering in highly degenerate tetrahedrites through isovalent doping. Journal of Materials Chemistry A, 2016, 4, 17096-17103.	5.2	44
16	Theoretical prediction of different decomposition paths for CaMn_2Sb_2 . Physical Review B, 2010, 82, .	1.1	43
17	Characterization of rattling in relation to thermal conductivity: Ordered half-Heusler semiconductors. Physical Review B, 2020, 101, .	1.1	43
18	High-performance eco-friendly MnTe thermoelectrics through introducing SnTe nanocrystals and manipulating band structure. Nano Energy, 2021, 81, 105649.	8.2	40

