

Yuan Wang

List of Publications by Year in descending order

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Version: 2024-02-01

10
papers

888
citations

933447

10
h-index

1372567

10
g-index

10
all docs

10
docs citations

10
times ranked

919
citing authors

#	ARTICLE	IF	CITATIONS
1	Strong Phonon-Phonon Interactions Securing Extraordinary Thermoelectric $\text{Ge}_{1-x}\text{Sb}_x\text{Te}$ with Zn-Alloying-Induced Band Alignment. <i>Journal of the American Chemical Society</i> , 2019, 141, 1742-1748.	13.7	199
2	Arrays of Planar Vacancies in Superior Thermoelectric $\text{Ge}_x\text{Sb}_y\text{Te}_{1-x-y}$ with Band Convergence. <i>Advanced Energy Materials</i> , 2018, 8, 1801837.	13.5	161
3	Realizing High Thermoelectric Performance in n-Type Highly Distorted Sb-Doped SnSe Microplates via Tuning High Electron Concentration and Inducing Intensive Crystal Defects. <i>Advanced Energy Materials</i> , 2018, 8, 1800775.	19.5	120
4	Enhanced thermoelectric properties of nanostructured n-type Bi_2Te_3 by suppressing Te vacancy through non-equilibrium fast reaction. <i>Chemical Engineering Journal</i> , 2020, 391, 123513.	12.7	108
5	High Porosity in Nanostructured n-Type Bi_2Te_3 Obtaining Ultralow Lattice Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 31237-31244.	8.0	91
6	Nanoscale pores plus precipitates rendering high-performance thermoelectric $\text{SnTe}_{1-x}\text{Se}_x$ with refined band structures. <i>Nano Energy</i> , 2019, 60, 1-7.	16.0	86
7	Enhancing Thermoelectric Properties of InTe Nanoprecipitate-Embedded $\text{Sn}_x\text{In}_x\text{Te}$ Microcrystals through Anharmonicity and Strain Engineering. <i>ACS Applied Energy Materials</i> , 2019, 2, 2965-2971.	5.1	43
8	Optimizing Electronic Quality Factor toward High-Performance $\text{Ge}_x\text{Sb}_y\text{Te}_{1-x-y}$ Thermoelectrics: The Role of Transition Metal Doping. <i>Advanced Materials</i> , 2021, 33, e2102575.	4.5	41
9	Hierarchical Structuring to Break the Amorphous Limit of Lattice Thermal Conductivity in High-Performance SnTe-Based Thermoelectrics. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 36370-36379.	8.0	20
10	Biodegradable shape memory alloys: Progress and prospects. <i>Biomaterials</i> , 2021, 279, 121215.	11.4	19