

# Zhen Li

## List of Publications by Year in descending order

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18  
papers

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840776

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docs citations

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times ranked

401  
citing authors

#	ARTICLE	IF	CITATIONS
1	Yttrium-Doped Sb <sub>2</sub> Te <sub>3</sub> : A Promising Material for Phase-Change Memory. ACS Applied Materials & Interfaces, 2016, 8, 26126-26134.	8.0	99
2	Y-Doped Sb <sub>2</sub> Te <sub>3</sub> Phase-Change Materials: Toward a Universal Memory. ACS Applied Materials & Interfaces, 2020, 12, 20672-20679.	8.0	65
3	High thermoelectric performance of few-quintuple Sb <sub>2</sub> Te <sub>3</sub> nanofilms. Nano Energy, 2018, 43, 285-290.	16.0	51
4	Identifying optimal dopants for Sb <sub>2</sub> Te <sub>3</sub> phase-change material by high-throughput ab initio calculations with experiments. Computational Materials Science, 2019, 165, 51-58.	3.0	34
5	Improved hyperthermia treatment control using SAR/temperature simulation and PRFS magnetic resonance thermal imaging. International Journal of Hyperthermia, 2011, 27, 86-99.	2.5	32
6	2D Magnetic Janus Semiconductors with Exotic Structural and Quantum-Phase Transitions. Journal of Physical Chemistry Letters, 2019, 10, 3922-3928.	4.6	28
7	Reduction of thermal conductivity in Y <sub>x</sub> Sb <sub>2-2x</sub> Te <sub>3</sub> for phase change memory. Journal of Applied Physics, 2017, 122, .	2.5	21
8	Insight into the role of oxygen in the phase-change material GeTe. Journal of Materials Chemistry C, 2017, 5, 3592-3599.	5.5	18
9	Deformation potential extraction and computationally efficient mobility calculations in silicon from first principles. Physical Review B, 2021, 104, .	3.2	18
10	Reduction in thermal conductivity of Sb <sub>2</sub> Te phase-change material by scandium/yttrium doping. Journal of Alloys and Compounds, 2020, 821, 153499.	5.5	14
11	Hierarchically nanostructured thermoelectric materials: challenges and opportunities for improved power factors. European Physical Journal B, 2020, 93, 1.	1.5	12
12	Oxidation behavior of Nb <sub>24</sub> Ti <sub>18</sub> Si <sub>2</sub> Al <sub>2</sub> Hf <sub>4</sub> Cr and Nb <sub>24</sub> Ti <sub>18</sub> Si <sub>2</sub> Al <sub>2</sub> Hf <sub>8</sub> Cr hypereutectic alloys at 1250 Å°C. Rare Metals, 2017, 36, 168-173.	7.1	11
13	Cyclic oxidation behavior of Al-Si coating on new Î <sup>3</sup> -strengthened cobalt-based superalloy: Experimental study and first-principles calculation. Corrosion Science, 2021, 185, 109422.	6.6	10
14	Bipolar conduction asymmetries lead to ultra-high thermoelectric power factor. Applied Physics Letters, 2022, 120, 072102.	3.3	8
15	Origin of high thermoelectric performance with a wide range of compositions for Bi <sub>x</sub> Sb <sub>2-2x</sub> Te <sub>3</sub> single quintuple layers. Physical Chemistry Chemical Physics, 2019, 21, 1315-1323.	2.8	7
16	Lattice Thermal Conductivity of mGeTe <sub>n</sub> Sb <sub>2</sub> Te <sub>3</sub> Phase-Change Materials: A First-Principles Study. Crystals, 2019, 9, 136.	2.2	5
17	Mechanical and transport properties of $\text{Bi}_x\text{Sb}_{2-2x}\text{Te}_3$ single quin. Computational Materials Science. 2019, 170, 109182.	3.0	3
18	Effect of CeO <sub>2</sub> dispersion on the oxidation behavior of Ni-Al/Ni-Re coating in dry and wet CO <sub>2</sub> gas at 650 Å°C. Corrosion Science, 2021, 187, 109498.	6.6	0