

Wanting Zhu

List of Publications by Year in descending order

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22
papers

1,403
citations

643344

15
h-index

759306

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all docs

22
docs citations

22
times ranked

1544
citing authors

#	ARTICLE	IF	CITATIONS
1	Fabrication and Excellent Performances of Bismuth Telluride-Based Thermoelectric Devices. ACS Applied Materials & Interfaces, 2022, 14, 12276-12283.	4.0	20
2	Environmental-friendly electrospun phase change fiber with exceptional thermal energy storage performance. Solar Energy Materials and Solar Cells, 2021, 222, 110939.	3.0	19
3	Enhanced thermoelectric performance and atomic-resolution interfacial structures in BiSbTe thermo-electro-magnetic nanocomposites incorporating magnetocaloric LaFeSi nanoparticles. Journal of Materiomics, 2021, 7, 998-1006.	2.8	19
4	Carbon aerogel based composite phase change material derived from kapok fiber: Exceptional microwave absorptivity and efficient solar/magnetic to thermal energy storage performance. Composites Part B: Engineering, 2021, 226, 109330.	5.9	58
5	Excellent Thermoelectric Performance from In Situ Reaction between Co Nanoparticles and BiSbTe Flexible Films. ACS Applied Materials & Interfaces, 2021, 13, 58746-58753.	4.0	12
6	Eco-friendly electrospun nanofibrous membranes with high thermal energy capacity and improved thermal transfer efficiency. Renewable Energy, 2020, 148, 504-511.	4.3	22
7	Preparation and Characterization of Ni/Bi _{0.5} Sb _{1.5} Te ₃ Heterogeneous Multilayered Thermoelectric Materials. Journal of Electronic Materials, 2020, 49, 2689-2697.	1.0	3
8	Magnetism-induced huge enhancement of the room-temperature thermoelectric and cooling performance of p-type BiSbTe alloys. Energy and Environmental Science, 2020, 13, 535-544.	15.6	109
9	Preparation and Thermoelectric Performance of BaTiO ₃ /Bi _{0.5} Sb _{1.5} Te ₃ Composite Materials. Journal of Electronic Materials, 2020, 49, 2794-2801.	1.0	4
10	Geometrical Structure Optimization Design of High-Performance Bi ₂ Te ₃ -Based Artificially Tilted Multilayer Thermoelectric Devices. Journal of Electronic Materials, 2020, 49, 5980-5988.	1.0	5
11	Numerical Simulation and Structural Optimization of Multi-Stage Planar Thermoelectric Coolers. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000248.	0.8	7
12	High-pressure synthesis and excellent thermoelectric performance of Ni/BiTeSe magnetic nanocomposites. Journal of Materials Chemistry A, 2020, 8, 4816-4826.	5.2	55
13	Excellent transverse power generation and cooling performances of artificially tilted thermoelectric film devices. Nano Energy, 2019, 66, 104145.	8.2	14
14	Polyethylene glycol/halloysite@Ag nanocomposite PCM for thermal energy storage: Simultaneously high latent heat and enhanced thermal conductivity. Solar Energy Materials and Solar Cells, 2019, 193, 237-245.	3.0	113
15	Natural Microtubule-Encapsulated Phase-Change Material with Simultaneously High Latent Heat Capacity and Enhanced Thermal Conductivity. ACS Applied Materials & Interfaces, 2019, 11, 20828-20837.	4.0	47
16	Natural microtubule encapsulated phase change material with high thermal energy storage capacity. Energy, 2019, 172, 1144-1150.	4.5	32
17	Fabrication and excellent performances of Bi _{0.5} Sb _{1.5} Te ₃ /epoxy flexible thermoelectric cooling devices. Nano Energy, 2018, 50, 766-776.	8.2	80
18	Enhanced electrical properties of stoichiometric Bi _{0.5} Sb _{1.5} Te ₃ film with high-crystallinity via layer-by-layer in-situ Growth. Nano Energy, 2017, 33, 55-64.	8.2	64

#	ARTICLE	IF	CITATIONS
19	Hydrothermal route to VO ₂ (B) nanorods: controlled synthesis and characterization. Journal of Nanoparticle Research, 2017, 19, 1.	0.8	8
20	Low interface resistance and excellent anti-oxidation of Al/Cu/Ni multilayer thin-film electrodes for Bi ₂ Te ₃ -based modules. Nano Energy, 2017, 40, 274-281.	8.2	24
21	Superparamagnetic enhancement of thermoelectric performance. Nature, 2017, 549, 247-251.	13.7	472
22	Magnetoelectric interaction and transport behaviours in magnetic nanocomposite thermoelectric materials. Nature Nanotechnology, 2017, 12, 55-60.	15.6	216