

Wanting Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,403
citations

643344

15
h-index

759306

22
g-index

22
all docs

22
docs citations

22
times ranked

1544
citing authors

#	ARTICLE	IF	CITATIONS
1	Superparamagnetic enhancement of thermoelectric performance. <i>Nature</i> , 2017, 549, 247-251.	13.7	472
2	Magnetoelectric interaction and transport behaviours in magnetic nanocomposite thermoelectric materials. <i>Nature Nanotechnology</i> , 2017, 12, 55-60.	15.6	216
3	Polyethylene glycol/halloysite@Ag nanocomposite PCM for thermal energy storage: Simultaneously high latent heat and enhanced thermal conductivity. <i>Solar Energy Materials and Solar Cells</i> , 2019, 193, 237-245.	3.0	113
4	Magnetism-induced huge enhancement of the room-temperature thermoelectric and cooling performance of p-type BiSbTe alloys. <i>Energy and Environmental Science</i> , 2020, 13, 535-544.	15.6	109
5	Fabrication and excellent performances of Bi _{0.5} Sb _{1.5} Te ₃ /epoxy flexible thermoelectric cooling devices. <i>Nano Energy</i> , 2018, 50, 766-776.	8.2	80
6	Enhanced electrical properties of stoichiometric Bi _{0.5} Sb _{1.5} Te ₃ film with high-crystallinity via layer-by-layer in-situ Growth. <i>Nano Energy</i> , 2017, 33, 55-64.	8.2	64
7	Carbon aerogel based composite phase change material derived from kapok fiber: Exceptional microwave absorptivity and efficient solar/magnetic to thermal energy storage performance. <i>Composites Part B: Engineering</i> , 2021, 226, 109330.	5.9	58
8	High-pressure synthesis and excellent thermoelectric performance of Ni/BiTeSe magnetic nanocomposites. <i>Journal of Materials Chemistry A</i> , 2020, 8, 4816-4826.	5.2	55
9	Natural Microtubule-Encapsulated Phase-Change Material with Simultaneously High Latent Heat Capacity and Enhanced Thermal Conductivity. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 20828-20837.	4.0	47
10	Natural microtubule encapsulated phase change material with high thermal energy storage capacity. <i>Energy</i> , 2019, 172, 1144-1150.	4.5	32
11	Low interface resistance and excellent anti-oxidation of Al/Cu/Ni multilayer thin-film electrodes for Bi ₂ Te ₃ -based modules. <i>Nano Energy</i> , 2017, 40, 274-281.	8.2	24
12	Eco-friendly electrospun nanofibrous membranes with high thermal energy capacity and improved thermal transfer efficiency. <i>Renewable Energy</i> , 2020, 148, 504-511.	4.3	22
13	Fabrication and Excellent Performances of Bismuth Telluride-Based Thermoelectric Devices. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 12276-12283.	4.0	20
14	Environmental-friendly electrospun phase change fiber with exceptional thermal energy storage performance. <i>Solar Energy Materials and Solar Cells</i> , 2021, 222, 110939.	3.0	19
15	Enhanced thermoelectric performance and atomic-resolution interfacial structures in BiSbTe thermo-electro-magnetic nanocomposites incorporating magnetocaloric LaFeSi nanoparticles. <i>Journal of Materiomics</i> , 2021, 7, 998-1006.	2.8	19
16	Excellent transverse power generation and cooling performances of artificially tilted thermoelectric film devices. <i>Nano Energy</i> , 2019, 66, 104145.	8.2	14
17	Excellent Thermoelectric Performance from In Situ Reaction between Co Nanoparticles and BiSbTe Flexible Films. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 58746-58753.	4.0	12
18	Hydrothermal route to VO ₂ (B) nanorods: controlled synthesis and characterization. <i>Journal of Nanoparticle Research</i> , 2017, 19, 1.	0.8	8

#	ARTICLE	IF	CITATIONS
19	Numerical Simulation and Structural Optimization of Multi-Stage Planar Thermoelectric Coolers. <i>Physica Status Solidi (A) Applications and Materials Science</i> , 2020, 217, 2000248.	0.8	7
20	Geometrical Structure Optimization Design of High-Performance Bi ₂ Te ₃ -Based Artificially Tilted Multilayer Thermoelectric Devices. <i>Journal of Electronic Materials</i> , 2020, 49, 5980-5988.	1.0	5
21	Preparation and Thermoelectric Performance of BaTiO ₃ /Bi _{0.5} Sb _{1.5} Te ₃ Composite Materials. <i>Journal of Electronic Materials</i> , 2020, 49, 2794-2801.	1.0	4
22	Preparation and Characterization of Ni/Bi _{0.5} Sb _{1.5} Te ₃ Heterogeneous Multilayered Thermoelectric Materials. <i>Journal of Electronic Materials</i> , 2020, 49, 2689-2697.	1.0	3