

Wanting Zhu

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,403
citations

567281

15
h-index

677142

22
g-index

22
all docs

22
docs citations

22
times ranked

1352
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 1 | Fabrication and Excellent Performances of Bismuth Telluride-Based Thermoelectric Devices. ACS Applied Materials & Interfaces, 2022, 14, 12276-12283. | 8.0 | 20 |
| 2 | Environmental-friendly electrospun phase change fiber with exceptional thermal energy storage performance. Solar Energy Materials and Solar Cells, 2021, 222, 110939. | 6.2 | 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. | 5.7 | 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. | 12.0 | 58 |
| 5 | Excellent Thermoelectric Performance from In Situ Reaction between Co Nanoparticles and BiSbTe Flexible Films. ACS Applied Materials & Interfaces, 2021, 13, 58746-58753. | 8.0 | 12 |
| 6 | Eco-friendly electrospun nanofibrous membranes with high thermal energy capacity and improved thermal transfer efficiency. Renewable Energy, 2020, 148, 504-511. | 8.9 | 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. | 2.2 | 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. | 30.8 | 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. | 2.2 | 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. | 2.2 | 5 |
| 11 | Numerical Simulation and Structural Optimization of Multi-Stage Planar Thermoelectric Coolers. Physica Status Solidi (A) Applications and Materials Science, 2020, 217, 2000248. | 1.8 | 7 |
| 12 | High-pressure synthesis and excellent thermoelectric performance of Ni/BiTeSe magnetic nanocomposites. Journal of Materials Chemistry A, 2020, 8, 4816-4826. | 10.3 | 55 |
| 13 | Excellent transverse power generation and cooling performances of artificially tilted thermoelectric film devices. Nano Energy, 2019, 66, 104145. | 16.0 | 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. | 6.2 | 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. | 8.0 | 47 |
| 16 | Natural microtubule encapsulated phase change material with high thermal energy storage capacity. Energy, 2019, 172, 1144-1150. | 8.8 | 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. | 16.0 | 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. | 16.0 | 64 |

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|----|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------|-----------|
| 19 | Hydrothermal route to VO ₂ (B) nanorods: controlled synthesis and characterization. Journal of Nanoparticle Research, 2017, 19, 1. | 1.9 | 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. | 16.0 | 24 |
| 21 | Superparamagnetic enhancement of thermoelectric performance. Nature, 2017, 549, 247-251. | 27.8 | 472 |
| 22 | Magnetoelectric interaction and transport behaviours in magnetic nanocomposite thermoelectric materials. Nature Nanotechnology, 2017, 12, 55-60. | 31.5 | 216 |