

Weibing Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

25
papers

487
citations

840776
11
h-index

677142
22
g-index

25
all docs

25
docs citations

25
times ranked

622
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal and electrical conductivity enhancement of graphite nanoplatelets on form-stable polyethylene glycol/polymethyl methacrylate composite phase change materials. <i>Energy</i> , 2012, 39, 294-302.	8.8	115
2	Experimental and numerical study on thermal energy storage of polyethylene glycol/expanded graphite composite phase change material. <i>Energy and Buildings</i> , 2016, 111, 242-252.	6.7	62
3	Thermal properties of sodium nitrate-expanded vermiculite form-stable composite phase change materials. <i>Materials and Design</i> , 2016, 104, 190-196.	7.0	50
4	Fabrication of high-purity ternary carbide Ti ₃ AlC ₂ by spark plasma sintering (SPS) technique. <i>Ceramics International</i> , 2007, 33, 1399-1402.	4.8	40
5	Preparation and properties of capric-stearic acid/White Carbon Black composite for thermal storage in building envelope. <i>Energy and Buildings</i> , 2018, 158, 1781-1789.	6.7	33
6	Fabrication and thermal properties of a new heat storage concrete material. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2010, 25, 628-630.	1.0	27
7	Synthesis and thermal properties of a capric acid-modified expanded vermiculite phase change material. <i>Journal of Materials Science</i> , 2019, 54, 2231-2240.	3.7	24
8	Fabrication of Ti ₂ AlC by spark plasma sintering from elemental powders and thermodynamics analysis of Ti-Al-C system. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2007, 22, 325-328.	1.0	20
9	Preparation and thermal cycling of expanded graphite/adipic acid composite phase change materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2017, 129, 1639-1645.	3.6	18
10	Effect of phosphorus and fluorine on hydration process of tricalcium silicate and tricalcium aluminate. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2012, 27, 333-336.	1.0	16
11	Rapid synthesis of highly pure Nb ₂ AlC using the spark plasma sintering technique. <i>Journal of Physics and Chemistry of Solids</i> , 2018, 120, 218-222.	4.0	12
12	<i>In situ</i> synthesis, mechanical and cyclic oxidation properties of Ti ₃ AlC ₂ /Al ₂ O ₃ composites. <i>Advances in Applied Ceramics</i> , 2018, 117, 340-346.	1.1	10
13	Synthesis of Ti ₃ SiC ₂ /TiB ₂ composite by in-situ hot pressing (HP) method. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2008, 23, 863-865.	1.0	9
14	Synthesis of ZnO/Ti ₂ C composites by electrostatic self-assembly for the photocatalytic degradation of methylene blue. <i>Journal of Materials Science</i> , 2022, 57, 3954-3970.	3.7	9
15	Effects of sintering additives on preparation of CaF ₂ transparent ceramics. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2011, 26, 1179-1183.	1.0	7
16	Thermal characterization of lauric acid and stearic acid binary eutectic mixture in latent heat thermal storage systems with tube and fins. <i>Journal Wuhan University of Technology, Materials Science Edition</i> , 2017, 32, 753-759.	1.0	7
17	Effect of Dy ₂ O ₃ on thermal properties of adipic acid (AA) as phase-change materials. <i>Journal of Thermal Analysis and Calorimetry</i> , 2019, 138, 2999-3005.	3.6	6
18	Experimental thermal storage research of organic binary phase change materials in building environment. <i>International Journal of Green Energy</i> , 2017, 14, 916-924.	3.8	5

#	ARTICLE	IF	CITATIONS
19	Effect of tin on the reaction synthesis of ternary carbide Ti ₃ AlC ₂ . Journal Wuhan University of Technology, Materials Science Edition, 2009, 24, 283-286.	1.0	4
20	Microstructure and Characterization of Capric-stearic Acid/Modified Expanded Vermiculite Thermal Storage Composites. Journal Wuhan University of Technology, Materials Science Edition, 2018, 33, 296-304.	1.0	3
21	Thermal Properties and the Prospects of Thermal Energy Storage of Mg-25%Cu-15%Zn Eutectic Alloy as Phase Change Material. Materials, 2021, 14, 3296.	2.9	3
22	Numerical simulation on heat transfer enhancement of phase change thermal storage devices for low-middle temperature. Journal Wuhan University of Technology, Materials Science Edition, 2016, 31, 799-804.	1.0	2
23	Low-temperature synthesis of high-purity Ti ₂ AlC powder by microwave sintering. Micro and Nano Letters, 2018, 13, 798-800.	1.3	2
24	Effect of Modified Vermiculite on the Interface of a Capric Acid-expanded Vermiculite Composite Phase Change Material with Phase Transition Kinetics. Journal Wuhan University of Technology, Materials Science Edition, 2019, 34, 345-352.	1.0	2
25	Fabrication, Structure, and Thermal Properties of Mg-Cu Alloys as High Temperature PCM for Thermal Energy Storage. Materials, 2021, 14, 4246.	2.9	1