Huanzhi Zhang

List of Publications by Year
in descending order

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41 papers	2,086 citations	361413 20 h-index	289244 40 g-index
41 all docs	41 docs citations	41 times ranked	2106 citing authors

#	Article	IF	Citations
1	Biomass Homogeneity Reinforced Carbon Aerogels Derived Functional Phaseâ€Change Materials for Solarâ€“Thermal Energy Conversion and Storage. Energy and Environmental Materials, 2023, 6, .	12.8	16
2	MWCNTs/hydroxypropyl cellulose/polyethylene glycol-based shape-stabilized phase change materials. Journal of Thermal Analysis and Calorimetry, 2022, 147, 6583-6592.	3.6	3
3	Remarkable catalysis of spinel ferrite XFe2O4 (XÂ=ÂNi, Co, Mn, Cu, Zn) nanoparticles on the dehydrogenation properties of LiAlH4: An experimental and theoretical study. Journal of Materials Science and Technology, 2022, 111, 189-203.	10.7	18
4	Wire-sheet assembly construction of boron nitride/single-walled carbon nanotube shape-stabilized phase change composites for light-thermal energy conversion and storage. Journal of Energy Storage, 2022, 47, 103914.	8.1	5
5	Design of Fe and Cu bimetallic integration on N and F co-doped porous carbon material for oxygen reduction reaction. International Journal of Hydrogen Energy, 2022, 47, 7751-7760.	7.1	12
6	Construction of double cross-linking PEG/h-BN@GO polymeric energy-storage composites with high structural stability and excellent thermal performances. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2022, 638, 128193.	4.7	11
7	Enhanced Hydrogen Storage Properties of LiAlH₄ by Excellent Catalytic Activity of XTiO₃@hâ€BN (X = Co, Ni). Advanced Functional Materials, 2022, 32, .	14.9	11
8	Enhanced visible-light-driven RhB removal with a Moâ€“Ni bimetallic sulfide/g-C₃N₄ nanosheet Schottky junction. New Journal of Chemistry, 2022, 46, 8794-8804.	2.8	2
9	Shape-stabilized phase change composites enabled by lightweight and bio-inspired interconnecting carbon aerogels for efficient energy storage and photo-thermal conversion. Journal of Materials Chemistry A, 2022, 10, 13556-13569.	10.3	20
10	Li1.2Mn0.6Ni0.2O2 Cathode Material Prepared by the Ultrasonic Dispersionassisted Method. Current Mechanics and Advanced Materials, 2021, 1, 58-65.	0.1	0
11	Three-Dimensional Self-Supporting Ti₃C₂ with MoS₂ and Cu₂O Nanocrystals for High-Performance Flexible Supercapacitors. ACS Applied Materials & Interfaces, 2021, 13, 22664-22675.	8.0	107
12	Electrospinning fabricated novel poly (ethylene glycol)/graphene oxide composite phase-change nano-fibers with good shape stability for thermal regulation. Journal of Energy Storage, 2021, 40, 102687.	8.1	31
13	Multielement synergetic effect of NiFe₂O₄and h-BN for improving the dehydrogenation properties of LiAlH₄. Inorganic Chemistry Frontiers, 2021, 8, 3111-3126.	6.0	16
14	Hydrogen generation from ammonia borane hydrolysis catalyzed by ruthenium nanoparticles supported on Coâ€“Ni layered double oxides. Sustainable Energy and Fuels, 2021, 5, 2301-2312.	4.9	17
15	A graphene-like nanoribbon for efficient bifunctional electrocatalysts. Journal of Materials Chemistry A, 2021, 9, 26688-26697.	10.3	10
16	Enhanced thermal performance of form-stable composite phase-change materials supported by novel porous carbon spheres for thermal energy storage. Journal of Energy Storage, 2020, 27, 101134.	8.1	35
17	Design and synthesis of novel microencapsulated phase change materials with enhancement of thermal conductivity and thermal stability: Self-assembled boron nitride into shell materials. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 586, 124225.	4.7	41
18	A novel bifunctional microencapsulated phase change material loaded with ZnO for thermal energy storage and lightâ€“thermal energy conversion. Sustainable Energy and Fuels, 2020, 4, 5203-5214.	4.9	25

#	Article	IF	Citations
19	Multielement Synergetic Effect of Boron Nitride and Multiwalled Carbon Nanotubes for the Fabrication of Novel Shape-Stabilized Phase-Change Composites with Enhanced Thermal Conductivity. ACS Applied Materials & Interfaces, 2020, 12, 41398-41409.	8.0	47
20	Superior performance for lithium storage from an integrated composite anode consisting of SiO-based active material and current collector. Frontiers of Materials Science, 2020, 14, 243-254.	2.2	1
21	Encapsulation of hollow Cu2O nanocubes with Co3O4 on porous carbon for energy-storage devices. Journal of Materials Science and Technology, 2020, 55, 182-189.	10.7	55
22	Facile synthesis of NiCo₂O₄-anchored reduced graphene oxide nanocomposites as efficient additives for improving the dehydrogenation behavior of lithium alanate. Inorganic Chemistry Frontiers, 2020, 7, 1257-1272.	6.0	31
23	BiomassâEDerived Porous Carbon Prepared from Egg White for HighâEperformance Supercapacitor Electrode Materials. ChemistrySelect, 2019, 4, 7358-7365.	1.5	32
24	Preparation and thermal performances of microencapsulated phase change materials with a nano-Al2O3-doped shell. Journal of Thermal Analysis and Calorimetry, 2019, 138, 233-241.	3.6	16
25	Fabrication and characterization of novel meso-porous carbon/n-octadecane as form-stable phase change materials for enhancement of phase-change behavior. Journal of Materials Science and Technology, 2019, 35, 939-945.	10.7	24
26	Graphene-oxide-induced lamellar structures used to fabricate novel composite solid-solid phase change materials for thermal energy storage. Chemical Engineering Journal, 2019, 362, 909-920.	12.7	94
27	In Situ Synthesis of Ruthenium Supported on Ginkgo Leaf-Derived Porous Carbon for H2 Generation from NH3BH3 Hydrolysis. Recent Patents on Materials Science, 2019, 11, 65-70.	0.5	3
28	Preparation and thermophysical properties of a novel form-stable CaCl2Â·6H2O/sepiolite composite phase change material for latent heat storage. Journal of Thermal Analysis and Calorimetry, 2018, 131, 57-63.	3.6	31
29	Preparation and thermal performance of n-octadecane/expanded graphite composite phase-change materials for thermal management. Journal of Thermal Analysis and Calorimetry, 2018, 131, 81-88.	3.6	15
30	Feâ€Coâ€Ni/Nitrogenâ€Doped Mesoporous Carbon Materials for Electrochemical Oxygen Reduction. ChemistrySelect, 2018, 3, 12960-12966.	1.5	2
31	Improved Dehydrogenation Performance of Li-B-N-H by Doped NiO. Metals, 2018, 8, 258.	2.3	3
32	Guanine-Derived Nitrogen-Doped Ordered Mesoporous Carbons for Lithium-Ion Battery Anodes. ChemistrySelect, 2017, 2, 10076-10081.	1.5	9
33	Synthesis of three-dimensional graphene aerogel encapsulated n-octadecane for enhancing phase-change behavior and thermal conductivity. Journal of Materials Chemistry A, 2017, 5, 15191-15199.	10.3	100
34	Thermochemical studies of Rhodamine B and Rhodamine 6G by modulated differential scanning calorimetry and thermogravimetric analysis. Journal of Thermal Analysis and Calorimetry, 2016, 123, 1611-1618.	3.6	22
35	A novel thermal-insulating film incorporating microencapsulated phase-change materials for temperature regulation and nano-TiO2 for UV-blocking. Solar Energy Materials and Solar Cells, 2015, 137, 210-218.	6.2	22
36	Preparation and thermal properties of fatty acids/CNTs composite as shape-stabilized phase change materials. Journal of Thermal Analysis and Calorimetry, 2013, 111, 377-384.	3.6	86

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37	Mesoporous metalâ€“organic frameworks: design and applications. Energy and Environmental Science, 2012, 5, 7508.	30.8	203
38	Preparation and thermal performance of gypsum boards incorporated with microencapsulated phase change materials for thermal regulation. Solar Energy Materials and Solar Cells, 2012, 102, 93-102.	6.2	89
39	Fabrication of microencapsulated phase change materials based on n-octadecane core and silica shell through interfacial polycondensation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2011, 389, 104-117.	4.7	163
40	Silica encapsulation of n-octadecane via solâ€“gel process: A novel microencapsulated phase-change material with enhanced thermal conductivity and performance. Journal of Colloid and Interface Science, 2010, 343, 246-255.	9.4	419
41	Fabrication and performances of microencapsulated phase change materials based on n-octadecane core and resorcinol-modified melamineâ€“formaldehyde shell. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2009, 332, 129-138.	4.7	239