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	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
2	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
3	Mesoporous metalâ€“organic frameworks: design and applications. Energy and Environmental Science, 2012, 5, 7508.	30.8	203
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	Biomassâ€Derived Porous Carbon Prepared from Egg White for Highâ€performance Supercapacitor Electrode Materials. ChemistrySelect, 2019, 4, 7358-7365.	1.5	32
15	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
16	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
17	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
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

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19	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
20	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
21	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
22	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
23	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
24	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
25	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
26	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
27	Multielement synergetic effect of NiFe₂O₄and h-BN for improving the dehydrogenation properties of LiAlH₄. Inorganic Chemistry Frontiers, 2021, 8, 3111-3126.	6.0	16
28	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
29	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
30	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
31	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
32	A graphene-like nanoribbon for efficient bifunctional electrocatalysts. Journal of Materials Chemistry A, 2021, 9, 26688-26697.	10.3	10
33	Guanine-Derived Nitrogen-Doped Ordered Mesoporous Carbons for Lithium-Ion Battery Anodes. ChemistrySelect, 2017, 2, 10076-10081.	1.5	9
34	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
35	Improved Dehydrogenation Performance of Li-B-N-H by Doped NiO. Metals, 2018, 8, 258.	2.3	3
36	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

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37	MWCNTs/hydroxypropyl cellulose/polyethylene glycol-based shape-stabilized phase change materials. Journal of Thermal Analysis and Calorimetry, 2022, 147, 6583-6592.	3.6	3
38	Feâ€Coâ€Ni/Nitrogenâ€Doped Mesoporous Carbon Materials for Electrochemical Oxygen Reduction. ChemistrySelect, 2018, 3, 12960-12966.	1.5	2
39	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
40	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
41	Li1.2Mn0.6Ni0.2O2 Cathode Material Prepared by the Ultrasonic Dispersionassisted Method. Current Mechanics and Advanced Materials, 2021, 1, 58-65.	0.1	0