

Haitao Zhu

List of Publications by Year in descending order

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51
papers

3,009
citations

236612

25
h-index

205818

48
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all docs

52
docs citations

52
times ranked

3766
citing authors

#	ARTICLE	IF	CITATIONS
1	Evaluation of Electrospun Polyvinyl Chloride/Polystyrene Fibers As Sorbent Materials for Oil Spill Cleanup. <i>Environmental Science & Technology</i> , 2011, 45, 4527-4531.	4.6	306
2	Effects of nanoparticle clustering and alignment on thermal conductivities of Fe ₃ O ₄ aqueous nanofluids. <i>Applied Physics Letters</i> , 2006, 89, 023123.	1.5	294
3	Thermal properties of carbon black aqueous nanofluids for solar absorption. <i>Nanoscale Research Letters</i> , 2011, 6, 457.	3.1	198
4	Carbonized daikon for high efficient solar steam generation. <i>Solar Energy Materials and Solar Cells</i> , 2019, 191, 83-90.	3.0	179
5	Novel synthesis of copper nanoparticles: influence of the synthesis conditions on the particle size. <i>Nanotechnology</i> , 2005, 16, 3079-3083.	1.3	166
6	Fast Synthesis of Cu ₂ O Hollow Microspheres and Their Application in DNA Biosensor of Hepatitis B Virus. <i>Crystal Growth and Design</i> , 2009, 9, 633-638.	1.4	161
7	Preparation and thermal conductivity of suspensions of graphite nanoparticles. <i>Carbon</i> , 2007, 45, 226-228.	5.4	148
8	Critical Issues in Nanofluids Preparation, Characterization and Thermal Conductivity. <i>Current Nanoscience</i> , 2009, 5, 103-112.	0.7	141
9	Fast Synthesis, Formation Mechanism, and Control of Shell Thickness of CuS Hollow Spheres. <i>Inorganic Chemistry</i> , 2009, 48, 7099-7104.	1.9	133
10	Synthesis and thermal conductivity of Cu ₂ O nanofluids. <i>International Journal of Heat and Mass Transfer</i> , 2009, 52, 4371-4374.	2.5	122
11	Complementary optical absorption and enhanced solar thermal conversion of CuO-ATO nanofluids. <i>Solar Energy Materials and Solar Cells</i> , 2017, 162, 83-92.	3.0	106
12	Oil sorbents with high sorption capacity, oil/water selectivity and reusability for oil spill cleanup. <i>Marine Pollution Bulletin</i> , 2014, 84, 263-267.	2.3	104
13	Preparation and thermal conductivity of CuO nanofluid via a wet chemical method. <i>Nanoscale Research Letters</i> , 2011, 6, 181.	3.1	89
14	Carbon nanotube glycol nanofluids: Photo-thermal properties, thermal conductivities and rheological behavior. <i>Particuology</i> , 2012, 10, 614-618.	2.0	73
15	Scalable and Flexible Electrospun Film for Daytime Subambient Radiative Cooling. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 29558-29566.	4.0	67
16	Preparation, characterization, viscosity and thermal conductivity of CaCO ₃ aqueous nanofluids. <i>Science China Technological Sciences</i> , 2010, 53, 360-368.	2.0	66
17	Broad-band absorption and photo-thermal conversion properties of zirconium carbide aqueous nanofluids. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017, 80, 286-292.	2.7	54
18	Continuous oil-water separation with surface modified sponge for cleanup of oil spills. <i>RSC Advances</i> , 2014, 4, 53514-53519.	1.7	53

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19	Facile Preparation and Characterization of Modified Polyurethane Sponge for Oil Absorption. <i>Industrial & Engineering Chemistry Research</i> , 2014, 53, 20139-20144.	1.8	51
20	Novel synthesis of bismuth tungstate hollow nanospheres in water-ethanol mixed solvent. <i>Chemical Communications</i> , 2010, 46, 7250.	2.2	49
21	Sacrificial Template Synthesis and Photothermal Conversion Enhancements of Hierarchical and Hollow CuInS ₂ Microspheres. <i>Journal of Physical Chemistry C</i> , 2013, 117, 9121-9128.	1.5	39
22	Solar evaporation and electricity generation of porous carbonaceous membrane prepared by electrospinning and carbonization. <i>Solar Energy Materials and Solar Cells</i> , 2020, 215, 110591.	3.0	39
23	Broadband absorption and enhanced photothermal conversion property of octopod-like Ag@Ag ₂ S core@shell structures with gradually varying shell thickness. <i>Scientific Reports</i> , 2017, 7, 17782.	1.6	32
24	Biomass Carbon Materials for Efficient Solar Steam Generation Prepared from Carbonized <i>Enteromorpha Prolifera</i> . <i>Energy Technology</i> , 2020, 8, 1901215.	1.8	32
25	A hierarchical porous carbon supported Pd@Pd ₄ S heterostructure as an efficient catalytic material positive electrode for Li-O ₂ batteries. <i>Journal of Power Sources</i> , 2020, 451, 227738.	4.0	31
26	CuS/Cu ₂ S nanofluids: Synthesis and thermal conductivity. <i>International Journal of Heat and Mass Transfer</i> , 2010, 53, 1841-1843.	2.5	25
27	Multilayer Three-Dimensional Structure Made of Modified Stainless Steel Mesh for in Situ Continuous Separation of Spilled Oil. <i>Industrial & Engineering Chemistry Research</i> , 2015, 54, 11838-11843.	1.8	25
28	Full daytime sub-ambient radiative cooling film with high efficiency and low cost. <i>Renewable Energy</i> , 2022, 194, 850-857.	4.3	23
29	Performance evaluation of a co-production system of solar thermal power generation and seawater desalination. <i>Renewable Energy</i> , 2021, 169, 1121-1133.	4.3	21
30	Thermal Conductivities, Rheological Behaviors and Photothermal Properties of Ethylene Glycol-based Nanofluids Containing Carbon Black Nanoparticles. <i>Procedia Engineering</i> , 2012, 36, 521-527.	1.2	19
31	Novel nanofluid based efficient solar vaporization systems with applications in desalination and wastewater treatment. <i>Energy</i> , 2022, 247, 123513.	4.5	19
32	CePO ₄ Nanofluids: Synthesis and Thermal Conductivity. <i>Journal of Thermophysics and Heat Transfer</i> , 2009, 23, 219-222.	0.9	17
33	Optical Absorption and Photo-Thermal Conversion Properties of CuO/H ₂ O Nanofluids. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3178-3181.	0.9	16
34	Improvement of the efficiency of volumetric solar steam generation by enhanced solar harvesting and energy management. <i>Renewable Energy</i> , 2022, 183, 820-829.	4.3	14
35	Spray-freezing induced multidimensional morphology tuning of assembled spherical carbon for solar-driven steam generation. <i>Carbon</i> , 2020, 162, 481-489.	5.4	12
36	Roles of polyacrylate dispersant in the synthesis of well-dispersed BaSO ₄ nanoparticles by simple precipitation. <i>Particuology</i> , 2014, 14, 33-37.	2.0	11

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37	Insight into the role of the channel in photothermal materials for solar interfacial water evaporation. <i>Renewable Energy</i> , 2022, 193, 706-714.	4.3	10
38	Room-temperature synthesis of (Ag,Cu) ₂ S hollow spheres by cation exchange and their optical properties. <i>Materials Chemistry and Physics</i> , 2011, 127, 24-27.	2.0	9
39	Oleophobicity of Chitosan/Micron-alumina-Coated Stainless Steel Mesh for Oil/Water Separation. <i>Water, Air, and Soil Pollution</i> , 2016, 227, 1.	1.1	9
40	Ag ₂ S heterostructures for photothermal conversion and solar energy harvesting. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 95, 273-280.	2.7	9
41	Efficient solar-driven interfacial water evaporation enabled wastewater remediation by carbonized sugarcane. <i>Journal of Water Process Engineering</i> , 2022, 49, 102991.	2.6	9
42	Photo-Thermal Conversion of Copper Sulfide Hollow Structures with Different Shape and Thickness. <i>Journal of Nanoscience and Nanotechnology</i> , 2015, 15, 3191-3195.	0.9	8
43	Preparation of mesoporous ZrO ₂ with the middle phase formed in a trioctyl (or alkyl) phosphinic oxide/kerosene/HCl/ZrOCl ₂ extraction system. <i>Journal of Colloid and Interface Science</i> , 2003, 265, 101-105.	5.0	7
44	3D Flowerlike Copper Sulfide Nanostructures Synthesized from Copper (I) Oxide Hollow Microspheres. <i>Procedia Engineering</i> , 2012, 36, 25-33.	1.2	4
45	Structure Adjustment of Mesoporous ZrO ₂ Prepared with the Middle Phase Formed in Extraction Systems. <i>Solvent Extraction and Ion Exchange</i> , 2004, 22, 885-895.	0.8	3
46	In situ doping of carbon and sulfur from multifunctional agents to TiO ₂ nanospheres in water/acetone mixed solvent. <i>Materials Research Bulletin</i> , 2012, 47, 3427-3431.	2.7	3
47	Thermal Conductivity and Viscosity of Nanofluids Containing Chain-like Silver Clusters. <i>Current Nanoscience</i> , 2011, 7, 813-818.	0.7	2
48	3D Flowerlike Copper Sulfide Nanostructures Synthesized From Copper (II) oxide Hollow Microspheres. <i>Transactions of the Materials Research Society of Japan</i> , 2012, 37, 119-122.	0.2	1
49	Thermal Conductivities, Rheological Behaviors and Photo-thermal Properties of Ethylene Glycol -based Nanofluids Containing Carbon Black Nanoparticles. <i>Transactions of the Materials Research Society of Japan</i> , 2012, 37, 111-114.	0.2	0
50	Magnetic resonance imaging and photothermal conversion properties of Gd ₂ O ₃ nanocomposites for interstitial lymphography. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2020, 108, 638-646.	1.6	0
51	Significant Solar Thermal Conversion Properties of Ethylene Glycol Nanofluids Enhanced by Carbon Chain Nanostructures. <i>Nano</i> , 0, , .	0.5	0