Zhao Deng

List of Publications by Year
in descending order

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Version: 2024-02-01

53 papers	2,733 citations	147801 31 h-index	182427 51 g-index
55 all docs	55 docs citations	55 times ranked	4271 citing authors

#	Article	IF	Citations
1	Highly Luminescent Cesium Lead Halide Perovskite Nanocrystals Stabilized in Glasses for Lightâ€Emitting Applications. Advanced Optical Materials, 2019, 7, 1801663.	7.3	206
2	Walnut-like Porous Core/Shell TiO₂ with Hybridized Phases Enabling Fast and Stable Lithium Storage. ACS Applied Materials & Interfaces, 2017, 9, 10652-10663.	8.0	169
3	Tailoring CuO nanostructures for enhanced photocatalytic property. Journal of Colloid and Interface Science, 2012, 384, 1-9.	9.4	162
4	Synergistic promotion of solar-driven H2 generation by three-dimensionally ordered macroporous structured TiO2-Au-CdS ternary photocatalyst. Applied Catalysis B: Environmental, 2016, 184, 182-190.	20.2	143
5	SnS₂/TiO₂ nanohybrids chemically bonded on nitrogen-doped graphene for lithiumâ€“sulfur batteries: synergy of vacancy defects and heterostructures. Nanoscale, 2018, 10, 15505-15512.	5.6	116
6	3D interconnected macro-mesoporous electrode with self-assembled NiO nanodots for high-performance supercapacitor-like Li-ion battery. Nano Energy, 2016, 22, 269-277.	16.0	115
7	Low temperature photoluminescence properties of CsPbBr₃ quantum dots embedded in glasses. Physical Chemistry Chemical Physics, 2017, 19, 17349-17355.	2.8	102
8	Self-assembly of polyhedral oligosilsesquioxane (POSS) into hierarchically ordered mesoporous carbons with uniform microporosity and nitrogen-doping for high performance supercapacitors. Nano Energy, 2016, 22, 255-268.	16.0	97
9	High photocatalytic activity enhancement of titania inverse opal films by slow photon effect induced strong light absorption. Journal of Materials Chemistry A, 2013, 1, 15491.	10.3	90
10	Synthesis and Characterization of Bowl-Like Single-Crystalline BaTiO3 Nanoparticles. Nanoscale Research Letters, 2010, 5, 1217-1221.	5.7	86
11	Threeâ€Dimensionally Ordered Macroporous Titania with Structural and Photonic Effects for Enhanced Photocatalytic Efficiency. ChemSusChem, 2011, 4, 1481-1488.	6.8	81
12	An oxygen-deficient vanadium oxide@N-doped carbon heterostructure for sodium-ion batteries: insights into the charge storage mechanism and enhanced reaction kinetics. Journal of Materials Chemistry A, 2020, 8, 3450-3458.	10.3	81
13	Wellâ€Organized Zeolite Nanocrystal Aggregates with Interconnected Hierarchically Microâ€“Mesoâ€“Macropore Systems Showing Enhanced Catalytic Performance. Chemistry - A European Journal, 2011, 17, 14987-14995.	3.3	78
14	In-Situ Growing Mesoporous CuO/O-Doped g-C₃N₄ Nanospheres for Highly Enhanced Lithium Storage. ACS Applied Materials & Interfaces, 2019, 11, 32957-32968.	8.0	78
15	Probing significant light absorption enhancement of titania inverse opal films for highly exalted photocatalytic degradation of dye pollutants. Applied Catalysis B: Environmental, 2014, 150-151, 411-420.	20.2	64
16	Selenium clusters in Zn-glutamate MOF derived nitrogen-doped hierarchically radial-structured microporous carbon for advanced rechargeable Naâ€“Se batteries. Journal of Materials Chemistry A, 2018, 6, 22790-22797.	10.3	62
17	Self-templated synthesis of microporous CoO nanoparticles with highly enhanced performance for both photocatalysis and lithium-ion batteries. Journal of Materials Chemistry A, 2013, 1, 1394-1400.	10.3	58
18	Rational construction of direct Z-scheme SnS/g-C3N4 hybrid photocatalyst for significant enhancement of visible-light photocatalytic activity. Applied Surface Science, 2020, 499, 143941.	6.1	58

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19	Coherent TiO₂/BaTiO₃ heterostructure as a functional reservoir and promoter for polysulfide intermediates. Chemical Communications, 2018, 54, 12250-12253.	4.1	53
20	Facile and fast synthesis of porous TiO2 spheres for use in lithium ion batteries. Journal of Colloid and Interface Science, 2014, 417, 144-151.	9.4	49
21	Engineering Inorganic Nanoflares with Elaborate Enzymatic Specificity and Efficiency for Versatile Biofilm Eradication. Small, 2020, 16, e2002348.	10.0	49
22	Facile synthesis of hierarchical and porous V2O5 microspheres as cathode materials for lithium ion batteries. Journal of Colloid and Interface Science, 2014, 418, 74-80.	9.4	47
23	Three-Dimensional (3D) Bicontinuous Hierarchically Porous Mn2O3 Single Crystals for High Performance Lithium-Ion Batteries. Scientific Reports, 2015, 5, 14686.	3.3	47
24	Hierarchical MoS₂@TiO₂ Heterojunctions for Enhanced Photocatalytic Performance and Electrocatalytic Hydrogen Evolution. Chemistry - an Asian Journal, 2018, 13, 1609-1615.	3.3	47
25	Optimizing inner voids in yolk-shell TiO2 nanostructure for high-performance and ultralong-life lithium-sulfur batteries. Chemical Engineering Journal, 2021, 417, 129241.	12.7	42
26	A Stable, Reusable, and Highly Active Photosynthetic Bioreactor by Bio-Interfacing an Individual Cyanobacterium with a Mesoporous Bilayer Nanoshell. Small, 2015, 11, 2003-2010.	10.0	39
27	Size-dependent photoluminescence of PbS QDs embedded in silicate glasses. Optical Materials Express, 2017, 7, 2194.	3.0	38
28	Facile synthesis of Zn-doped SnO2 dendrite-built hierarchical cube-like architectures and their application in lithium storage. Materials Science and Engineering B: Solid-State Materials for Advanced Technology, 2014, 189, 32-37.	3.5	35
29	Boosting Lithium-Ion Storage Capability in CuO Nanosheets via Synergistic Engineering of Defects and Pores. Frontiers in Chemistry, 2018, 6, 428.	3.6	35
30	Ultrathin g-C3N4 Nanosheet-Modified BiOCl Hierarchical Flower-Like Plate Heterostructure with Enhanced Photostability and Photocatalytic Performance. Crystals, 2017, 7, 266.	2.2	34
31	Melamine-based polymer networks enabled N, O, S Co-doped defect-rich hierarchically porous carbon nanobelts for stable and long-cycle Li-ion and Li-Se batteries. Journal of Colloid and Interface Science, 2021, 582, 60-69.	9.4	34
32	Coherent nanoscale cobalt/cobalt oxide heterostructures embedded in porous carbon for the oxygen reduction reaction. RSC Advances, 2018, 8, 28625-28631.	3.6	32
33	Sub-3nm NiO nanoparticles: Controlled synthesis, and photocatalytic activity. Materials Letters, 2012, 81, 245-247.	2.6	29
34	Facile synthesis of hierarchically structured manganese oxides as anode for lithium-ion batteries. Journal of Central South University, 2019, 26, 1481-1492.	3.0	29
35	Trivalent ion mediated abnormal growth of all-inorganic perovskite nanocrystals and their divergent emission properties. Nanoscale, 2019, 11, 7903-7912.	5.6	29
36	The influence of spatial coherence on the Goosâ€“HÃnchen shift at total internal reflection. Journal of Physics B: Atomic, Molecular and Optical Physics, 2008, 41, 055401.	1.5	28

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37	Synthesis and Characterization of Single-Crystalline BaTi₂O₅ Nanowires. Journal of Physical Chemistry C, 2010, 114, 1748-1751.	3.1	27
38	A Facile Approach for the Synthesis of Zn2SnO4/BiOBr Hybrid Nanocomposites with Improved Visible-Light Photocatalytic Performance. Nanomaterials, 2018, 8, 313.	4.1	25
39	Nitrogen-doped graphene in-situ modifying MnO nanoparticles for highly improved lithium storage. Applied Surface Science, 2019, 473, 893-901.	6.1	25
40	Hollow Cu₂O microspheres with two active {111} and {110} facets for highly selective adsorption and photodegradation of anionic dye. RSC Advances, 2015, 5, 55520-55526.	3.6	22
41	Hydrothermal and surfactant treatment to enhance the photocatalytic activity of hierarchically mesoâ€“macroporous titanias. Catalysis Today, 2013, 212, 89-97.	4.4	14
42	Hierarchical porous flower-like TiO 2 -B constructed by thin nanosheets for efficient lithium storage. Materials Letters, 2017, 201, 93-96.	2.6	14
43	Mesoporous Titanium Dioxide (TiO2) with hierarchically 3D dendrimeric architectures: Formation mechanism and highly enhanced photocatalytic activity. Journal of Colloid and Interface Science, 2013, 394, 252-262.	9.4	12
44	POSS-Derived Synthesis and Full Life Structural Analysis of Si@C as Anode Material in Lithium Ion Battery. Polymers, 2019, 11, 576.	4.5	11
45	Tuning the structure of a hierarchically porous ZrO2 for dye molecule depollution. Microporous and Mesoporous Materials, 2012, 152, 110-121.	4.4	10
46	One-Dimensional P-Doped Graphitic Carbon Nitride Tube: Facile Synthesis, Effect of Doping Concentration, and Enhanced Mechanism for Photocatalytic Hydrogen Evolution. Nanomaterials, 2022, 12, 1759.	4.1	10
47	Gas leaching as a path to build hierarchical coreâ€“corona porous alumina nanostructures with extraordinary pollutant treatment capacity. RSC Advances, 2013, 3, 1699-1702.	3.6	7
48	Synthesis, Characterization, and Photocatalytic Activity of Zn-Doped SnO2/Zn2SnO4Coupled Nanocomposites. International Journal of Photoenergy, 2014, 2014, 1-7.	2.5	7
49	Facile One-Pot Synthesis of Hollow Cu₂O Spheres with Porous Shells as High-Performance Anode Materials for Lithium Ion Batteries. Current Nanoscience, 2015, 11, 470-474.	1.2	4
50	Nanoscale and Spatial Variations Investigation of Etch Damage in Integrated Ferroelectric Capacitor Side Wall by Piezoresponse Force Microscopy. Japanese Journal of Applied Physics, 2009, 48, 011401.	1.5	2
51	Large Scale Synthesis of BaTiO₃ Nanorods by a Template Way. Advanced Materials Research, 2009, 79-82, 373-376.	0.3	1
52	Controlled Synthesize of BaTiO₃ Nanoparticles and BaCO₃ Nanowires through the Reverse Micelle System. Advanced Materials Research, 2009, 66, 171-174.	0.3	0
53	Leakage Current Characterization of BaTi₂O₅ Nanowires. Key Engineering Materials, 2015, 655, 168-173.	0.4	0