

Zhao Deng

List of Publications by Year in descending order

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53
papers

2,733
citations

147566

31
h-index

182168

51
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all docs

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docs citations

55
times ranked

4271
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Luminescent Cesium Lead Halide Perovskite Nanocrystals Stabilized in Glasses for Light-Emitting Applications. <i>Advanced Optical Materials</i> , 2019, 7, 1801663.	3.6	206
2	Walnut-like Porous Core/Shell TiO ₂ with Hybridized Phases Enabling Fast and Stable Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 10652-10663.	4.0	169
3	Tailoring CuO nanostructures for enhanced photocatalytic property. <i>Journal of Colloid and Interface Science</i> , 2012, 384, 1-9.	5.0	162
4	Synergistic promotion of solar-driven H ₂ generation by three-dimensionally ordered macroporous structured TiO ₂ -Au-CdS ternary photocatalyst. <i>Applied Catalysis B: Environmental</i> , 2016, 184, 182-190.	10.8	143
5	SnS ₂ /TiO ₂ nanohybrids chemically bonded on nitrogen-doped graphene for lithium-sulfur batteries: synergy of vacancy defects and heterostructures. <i>Nanoscale</i> , 2018, 10, 15505-15512.	2.8	116
6	3D interconnected macro-mesoporous electrode with self-assembled NiO nanodots for high-performance supercapacitor-like Li-ion battery. <i>Nano Energy</i> , 2016, 22, 269-277.	8.2	115
7	Low temperature photoluminescence properties of CsPbBr ₃ quantum dots embedded in glasses. <i>Physical Chemistry Chemical Physics</i> , 2017, 19, 17349-17355.	1.3	102
8	Self-assembly of polyhedral oligosilsesquioxane (POSS) into hierarchically ordered mesoporous carbons with uniform microporosity and nitrogen-doping for high performance supercapacitors. <i>Nano Energy</i> , 2016, 22, 255-268.	8.2	97
9	High photocatalytic activity enhancement of titania inverse opal films by slow photon effect induced strong light absorption. <i>Journal of Materials Chemistry A</i> , 2013, 1, 15491.	5.2	90
10	Synthesis and Characterization of Bowl-Like Single-Crystalline BaTiO ₃ Nanoparticles. <i>Nanoscale Research Letters</i> , 2010, 5, 1217-1221.	3.1	86
11	Three-Dimensionally Ordered Macroporous Titania with Structural and Photonic Effects for Enhanced Photocatalytic Efficiency. <i>ChemSusChem</i> , 2011, 4, 1481-1488.	3.6	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. <i>Journal of Materials Chemistry A</i> , 2020, 8, 3450-3458.	5.2	81
13	Well-Organized Zeolite Nanocrystal Aggregates with Interconnected Hierarchically Micro-Meso-Macropore Systems Showing Enhanced Catalytic Performance. <i>Chemistry - A European Journal</i> , 2011, 17, 14987-14995.	1.7	78
14	In-Situ Growing Mesoporous CuO/O-Doped g-C ₃ N ₄ Nanospheres for Highly Enhanced Lithium Storage. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 32957-32968.	4.0	78
15	Probing significant light absorption enhancement of titania inverse opal films for highly exalted photocatalytic degradation of dye pollutants. <i>Applied Catalysis B: Environmental</i> , 2014, 150-151, 411-420.	10.8	64
16	Selenium clusters in Zn-glutamate MOF derived nitrogen-doped hierarchically radial-structured microporous carbon for advanced rechargeable Na-Se batteries. <i>Journal of Materials Chemistry A</i> , 2018, 6, 22790-22797.	5.2	62
17	Self-templated synthesis of microporous CoO nanoparticles with highly enhanced performance for both photocatalysis and lithium-ion batteries. <i>Journal of Materials Chemistry A</i> , 2013, 1, 1394-1400.	5.2	58
18	Rational construction of direct Z-scheme SnS/g-C ₃ N ₄ hybrid photocatalyst for significant enhancement of visible-light photocatalytic activity. <i>Applied Surface Science</i> , 2020, 499, 143941.	3.1	58

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19	Coherent TiO ₂ /BaTiO ₃ heterostructure as a functional reservoir and promoter for polysulfide intermediates. <i>Chemical Communications</i> , 2018, 54, 12250-12253.	2.2	53
20	Facile and fast synthesis of porous TiO ₂ spheres for use in lithium ion batteries. <i>Journal of Colloid and Interface Science</i> , 2014, 417, 144-151.	5.0	49
21	Engineering Inorganic Nanoflakes with Elaborate Enzymatic Specificity and Efficiency for Versatile Biofilm Eradication. <i>Small</i> , 2020, 16, e2002348.	5.2	49
22	Facile synthesis of hierarchical and porous V ₂ O ₅ microspheres as cathode materials for lithium ion batteries. <i>Journal of Colloid and Interface Science</i> , 2014, 418, 74-80.	5.0	47
23	Three-Dimensional (3D) Bicontinuous Hierarchically Porous Mn ₂ O ₃ Single Crystals for High Performance Lithium-Ion Batteries. <i>Scientific Reports</i> , 2015, 5, 14686.	1.6	47
24	Hierarchical MoS ₂ @TiO ₂ Heterojunctions for Enhanced Photocatalytic Performance and Electrocatalytic Hydrogen Evolution. <i>Chemistry - an Asian Journal</i> , 2018, 13, 1609-1615.	1.7	47
25	Optimizing inner voids in yolk-shell TiO ₂ nanostructure for high-performance and ultralong-life lithium-sulfur batteries. <i>Chemical Engineering Journal</i> , 2021, 417, 129241.	6.6	42
26	A Stable, Reusable, and Highly Active Photosynthetic Bioreactor by Bio-Interfacing an Individual Cyanobacterium with a Mesoporous Bilayer Nanoshell. <i>Small</i> , 2015, 11, 2003-2010.	5.2	39
27	Size-dependent photoluminescence of PbS QDs embedded in silicate glasses. <i>Optical Materials Express</i> , 2017, 7, 2194.	1.6	38
28	Facile synthesis of Zn-doped SnO ₂ dendrite-built hierarchical cube-like architectures and their application in lithium storage. <i>Materials Science and Engineering B: Solid-State Materials for Advanced Technology</i> , 2014, 189, 32-37.	1.7	35
29	Boosting Lithium-Ion Storage Capability in CuO Nanosheets via Synergistic Engineering of Defects and Pores. <i>Frontiers in Chemistry</i> , 2018, 6, 428.	1.8	35
30	Ultrathin g-C ₃ N ₄ Nanosheet-Modified BiOCl Hierarchical Flower-Like Plate Heterostructure with Enhanced Photostability and Photocatalytic Performance. <i>Crystals</i> , 2017, 7, 266.	1.0	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. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 60-69.	5.0	34
32	Coherent nanoscale cobalt/cobalt oxide heterostructures embedded in porous carbon for the oxygen reduction reaction. <i>RSC Advances</i> , 2018, 8, 28625-28631.	1.7	32
33	Sub-3nm NiO nanoparticles: Controlled synthesis, and photocatalytic activity. <i>Materials Letters</i> , 2012, 81, 245-247.	1.3	29
34	Facile synthesis of hierarchically structured manganese oxides as anode for lithium-ion batteries. <i>Journal of Central South University</i> , 2019, 26, 1481-1492.	1.2	29
35	Trivalent ion mediated abnormal growth of all-inorganic perovskite nanocrystals and their divergent emission properties. <i>Nanoscale</i> , 2019, 11, 7903-7912.	2.8	29
36	The influence of spatial coherence on the Goos-Hänchen shift at total internal reflection. <i>Journal of Physics B: Atomic, Molecular and Optical Physics</i> , 2008, 41, 055401.	0.6	28

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37	Synthesis and Characterization of Single-Crystalline BaTi ₂ O ₅ Nanowires. <i>Journal of Physical Chemistry C</i> , 2010, 114, 1748-1751.	1.5	27
38	A Facile Approach for the Synthesis of Zn ₂ SnO ₄ /BiOBr Hybrid Nanocomposites with Improved Visible-Light Photocatalytic Performance. <i>Nanomaterials</i> , 2018, 8, 313.	1.9	25
39	Nitrogen-doped graphene in-situ modifying MnO nanoparticles for highly improved lithium storage. <i>Applied Surface Science</i> , 2019, 473, 893-901.	3.1	25
40	Hollow Cu ₂ O microspheres with two active {111} and {110} facets for highly selective adsorption and photodegradation of anionic dye. <i>RSC Advances</i> , 2015, 5, 55520-55526.	1.7	22
41	Hydrothermal and surfactant treatment to enhance the photocatalytic activity of hierarchically meso-“macroporous titanias. <i>Catalysis Today</i> , 2013, 212, 89-97.	2.2	14
42	Hierarchical porous flower-like TiO ₂ constructed by thin nanosheets for efficient lithium storage. <i>Materials Letters</i> , 2017, 201, 93-96.	1.3	14
43	Mesoporous Titanium Dioxide (TiO ₂) with hierarchically 3D dendrimeric architectures: Formation mechanism and highly enhanced photocatalytic activity. <i>Journal of Colloid and Interface Science</i> , 2013, 394, 252-262.	5.0	12
44	POSS-Derived Synthesis and Full Life Structural Analysis of Si@C as Anode Material in Lithium Ion Battery. <i>Polymers</i> , 2019, 11, 576.	2.0	11
45	Tuning the structure of a hierarchically porous ZrO ₂ for dye molecule depollution. <i>Microporous and Mesoporous Materials</i> , 2012, 152, 110-121.	2.2	10
46	One-Dimensional P-Doped Graphitic Carbon Nitride Tube: Facile Synthesis, Effect of Doping Concentration, and Enhanced Mechanism for Photocatalytic Hydrogen Evolution. <i>Nanomaterials</i> , 2022, 12, 1759.	1.9	10
47	Gas leaching as a path to build hierarchical core-“corona porous alumina nanostructures with extraordinary pollutant treatment capacity. <i>RSC Advances</i> , 2013, 3, 1699-1702.	1.7	7
48	Synthesis, Characterization, and Photocatalytic Activity of Zn-Doped SnO ₂ /Zn ₂ SnO ₄ Coupled Nanocomposites. <i>International Journal of Photoenergy</i> , 2014, 2014, 1-7.	1.4	7
49	Facile One-Pot Synthesis of Hollow Cu ₂ O Spheres with Porous Shells as High-Performance Anode Materials for Lithium Ion Batteries. <i>Current Nanoscience</i> , 2015, 11, 470-474.	0.7	4
50	Nanoscale and Spatial Variations Investigation of Etch Damage in Integrated Ferroelectric Capacitor Side Wall by Piezoresponse Force Microscopy. <i>Japanese Journal of Applied Physics</i> , 2009, 48, 011401.	0.8	2
51	Large Scale Synthesis of BaTiO ₃ Nanorods by a Template Way. <i>Advanced Materials Research</i> , 2009, 79-82, 373-376.	0.3	1
52	Controlled Synthesis of BaTiO ₃ Nanoparticles and BaCO ₃ Nanowires through the Reverse Micelle System. <i>Advanced Materials Research</i> , 2009, 66, 171-174.	0.3	0
53	Leakage Current Characterization of BaTi ₂ O ₅ Nanowires. <i>Key Engineering Materials</i> , 2015, 655, 168-173.	0.4	0