Zhihong Zhu

List of Publications by Year
in descending order

44 papers	3,144 citations	218677 26 h-index	254184 43 g-index
44 all docs	44 docs citations	44 times ranked	4625 citing authors

#	Article	IF	Citations
1	Iron Oxide-Based Nanotube Arrays Derived from Sacrificial Template-Accelerated Hydrolysis: Large-Area Design and Reversible Lithium Storage. Chemistry of Materials, 2010, 22, 212-217.	6.7	311
2	Single Fe Atom on Hierarchically Porous S, Nâ€Codoped Nanocarbon Derived from Porphyra Enable Boosted Oxygen Catalysis for Rechargeable Znâ€Air Batteries. Small, 2019, 15, e1900307.	10.0	273
3	NiCo2O4 with oxygen vacancies as better performance electrode material for supercapacitor. Chemical Engineering Journal, 2018, 334, 864-872.	12.7	217
4	Carbon/ZnO Nanorod Array Electrode with Significantly Improved Lithium Storage Capability. Journal of Physical Chemistry C, 2009, 113, 5336-5339.	3.1	202
5	Construction of Coreâ€“Shell NiMoO₄@Ni-Co-S Nanorods as Advanced Electrodes for High-Performance Asymmetric Supercapacitors. ACS Applied Materials & Interfaces, 2018, 10, 4662-4671.	8.0	195
6	Direct Synthesis of CoO Porous Nanowire Arrays on Ti Substrate and Their Application as Lithium-Ion Battery Electrodes. Journal of Physical Chemistry C, 2010, 114, 929-932.	3.1	168
7	Low-cost, high-performance supercapacitor based on activated carbon electrode materials derived from baobab fruit shells. Journal of Colloid and Interface Science, 2019, 538, 308-319.	9.4	137
8	Template synthesis of hollow fusiform RuO₂Â·xH₂O nanostructure and its supercapacitor performance. Journal of Materials Chemistry A, 2013, 1, 469-472.	10.3	131
9	A flexible fiber-shaped supercapacitor utilizing hierarchical NiCo₂O₄@polypyrrole coreâ€“shell nanowires on hemp-derived carbon. Journal of Materials Chemistry A, 2015, 3, 17209-17216.	10.3	131
10	Composite of Macroporous Carbon with Honeycomb-Like Structure from Mollusc Shell and NiCo₂O₄ Nanowires for High-Performance Supercapacitor. ACS Applied Materials & Interfaces, 2014, 6, 19416-19423.	8.0	107
11	Reduced ZnCo2O4@NiMoO4Â·H2O heterostructure electrodes with modulating oxygen vacancies for enhanced aqueous asymmetric supercapacitors. Journal of Power Sources, 2019, 409, 112-122.	7.8	94
12	Mesoporous CoO Nanocubes @ Continuous 3D Porous Carbon Skeleton of Rose-Based Electrode for High-Performance Supercapacitor. ACS Applied Materials & Interfaces, 2014, 6, 11839-11845.	8.0	87
13	Hierarchical Manganese Dioxide/Poly(3,4-ethylenedioxythiophene) Coreâ€“Shell Nanoflakes on Ramie-Derived Carbon Fiber for High-Performance Flexible All-Solid-State Supercapacitor. ACS Sustainable Chemistry and Engineering, 2016, 4, 1201-1211.	6.7	81
14	Combination cancer treatment through photothermally controlled release of selenous acid from gold nanocages. Biomaterials, 2018, 178, 517-526.	11.4	79
15	Robust iron nanoparticles with graphitic shells for high-performance Ni-Fe battery. Nano Energy, 2016, 30, 217-224.	16.0	76
16	Green and high performance all-solid-state supercapacitors based on MnO2/Faidherbia albida fruit shell derived carbon sphere electrodes. Journal of Power Sources, 2019, 417, 1-13.	7.8	75
17	Cobalt and nitrogen co-doping of porous carbon nanosphere as highly effective catalysts for oxygen reduction reaction and Zn-air battery. Chemical Engineering Journal, 2021, 409, 128171.	12.7	72
18	Three-dimensional interconnected coreâ€“shell networks with Ni(Fe)OOH and Mâ€“Nâ€“C active species together as high-efficiency oxygen catalysts for rechargeable Znâ€–air batteries. Journal of Materials Chemistry A, 2019, 7, 19045-19059.	10.3	70

#	Article	IF	Citations
19	Catalytic System Based on Sub-2 nm Pt Particles and Its Extraordinary Activity and Durability for Oxygen Reduction. Nano Letters, 2019, 19, 4997-5002.	9.1	68
20	Hexagonal nickel oxide nanoplate-based electrochemical supercapacitor. Journal of Materials Science, 2012, 47, 503-507.	3.7	62
21	Functional single-walled carbon nanotubes â€˜CARâ€™ for targeting dopamine delivery into the brain of parkinsonian mice. Nanoscale, 2017, 9, 10832-10845.	5.6	52
22	High-rate supercapacitor utilizing hydrous ruthenium dioxide nanotubes. Journal of Power Sources, 2015, 294, 88-93.	7.8	44
23	A robust bifunctional catalyst for rechargeable Zn-air batteries: Ultrathin NiFe-LDH nanowalls vertically anchored on soybean-derived Fe-N-C matrix. Nano Research, 2021, 14, 1175-1186.	10.4	43
24	Fabrication of Curcuminâ€Modified TiO 2 Nanoarrays via Cyclodextrin Based Polymer Functional Coatings for Osteosarcoma Therapy. Advanced Healthcare Materials, 2019, 8, 1901031.	7.6	38
25	The bifunctional regulation of interconnected Zn-incorporated ZrO₂ nanoarrays in antibiosis and osteogenesis. Biomaterials Science, 2015, 3, 665-680.	5.4	32
26	Biomass-Derived sustainable carbon materials in energy conversion and storage applications: Status and opportunities. A mini review. Electrochemistry Communications, 2022, 138, 107283.	4.7	29
27	Fabrication of Chitosanâ€18Î²â€Glycyrrhetinic Acid Modified Titanium Implants with Nanorod Arrays for Suppression of Osteosarcoma Growth and Improvement of Osteoblasts Activity. Advanced Functional Materials, 2017, 27, 1703932.	14.9	28
28	Calcium titanate micro-sheets scaffold for improved cell viability and osteogenesis. Chemical Engineering Journal, 2020, 389, 124400.	12.7	27
29	MnO2-decorated 3D porous carbon skeleton derived from mollusc shell for high-performance supercapacitor. Journal of Alloys and Compounds, 2017, 723, 505-511.	5.5	26
30	Osteogenic activity and angiogenesis of a SrTiO₃ nano-gridding structure on titanium surface. Journal of Materials Chemistry B, 2017, 5, 537-552.	5.8	26
31	Polydopamine-modified ZIF-8 nanoparticles as a drug carrier for combined chemo-photothermal osteosarcoma therapy. Colloids and Surfaces B: Biointerfaces, 2022, 216, 112507.	5.0	22
32	Nitrogen-doped porous carbon fiber with enriched Fe2N sites: Synthesis and application as efficient electrocatalyst for oxygen reduction reaction in microbial fuel cells. Journal of Colloid and Interface Science, 2022, 616, 539-547.	9.4	19
33	Selenium-Modified TiO₂ Nanoarrays with Antibacterial and Anticancer Properties for Postoperation Therapy Applications. ACS Applied Bio Materials, 2018, 1, 1656-1666.	4.6	18
34	Rose petal and P123 dual-templated macro-mesoporous TiO 2 for a hydrogen peroxide biosensor. Bioelectrochemistry, 2018, 120, 150-156.	4.6	14
35	ZnO nanorodâ€templated well-aligned ZrO₂ nanotube arrays for fibroblast adhesion and proliferation. Nanotechnology, 2014, 25, 215102.	2.6	12
36	Bidirectional regulation of zinc embedded titania nanorods: antibiosis and osteoblastic cell growth. RSC Advances, 2015, 5, 14470-14481.	3.6	12

#	Article	IF	Citations
37	Polydopamine-assisted decoration of Se nanoparticles on curcumin-incorporated nanofiber matrices for localized synergistic tumor-wound therapy. Biomaterials Science, 2022, 10, 536-548.	5.4	12
38	Engineered Zinc Titanate Coatings on the Titanium Surface with Enhanced Antitumor Properties and Biocompatibility. ACS Biomaterials Science and Engineering, 2019, 5, 5935-5946.	5.2	11
39	Design of alveolate Se-inserted TiO2 and its effect on osteosarcoma cells and osteoblasts. Journal of Materials Chemistry B, 2017, 5, 1988-2001.	5.8	10
40	Polydopamine regulated hydroxyapatite microspheres grown in the three-dimensional honeycomb-like mollusk shell-derived organic template for osteogenesis. Biofabrication, 2020, 12, 035022.	7.1	10
41	Mollusc shell derived 3D porous carbon skeleton for high-performance hybrid electrodes. Electrochimica Acta, 2019, 294, 268-275.	5.2	9
42	A comparison of hepatotoxicity induced by different lengths of tungsten trioxide nanorods and the protective effects of melatonin in BALB/c mice. Environmental Science and Pollution Research, 2021, 28, 40793-40807.	5.3	9
43	Colloidal Nanospheres of Amorphous Selenium: Facile Synthesis, Size Control, and Optical Properties. ChemNanoMat, 2021, 7, 620-625.	2.8	5
44	The Cytocompatibility of Nano-TiO₂ Thin Film Fabricated by Layer-by-Layer Assembly Technique. Integrated Ferroelectrics, 2012, 136, 71-80.	0.7	0