

Zhenhuan Zhao

List of Publications by Year in descending order

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81900

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93
docs citations

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times ranked

11077
citing authors

#	ARTICLE	IF	CITATIONS
1	Recent progress in design, synthesis, and applications of one-dimensional TiO ₂ nanostructured surface heterostructures: a review. <i>Chemical Society Reviews</i> , 2014, 43, 6920-6937.	38.1	726
2	Hierarchical porous carbon aerogel derived from bagasse for high performance supercapacitor electrode. <i>Nanoscale</i> , 2014, 6, 12120-12129.	5.6	545
3	Graphene-based nitrogen self-doped hierarchical porous carbon aerogels derived from chitosan for high performance supercapacitors. <i>Nano Energy</i> , 2015, 15, 9-23.	16.0	531
4	From UV to Near-Infrared, WS ₂ Nanosheet: A Novel Photocatalyst for Full Solar Light Spectrum Photodegradation. <i>Advanced Materials</i> , 2015, 27, 363-369.	21.0	494
5	Carbon quantum dots/hydrogenated TiO ₂ nanobelt heterostructures and their broad spectrum photocatalytic properties under UV, visible, and near-infrared irradiation. <i>Nano Energy</i> , 2015, 11, 419-427.	16.0	416
6	Structure, Synthesis, and Applications of TiO ₂ Nanobelts. <i>Advanced Materials</i> , 2015, 27, 2557-2582.	21.0	287
7	Enhanced Photocatalytic Performances of CeO ₂ /TiO ₂ Nanobelt Heterostructures. <i>Small</i> , 2013, 9, 3864-3872.	10.0	262
8	Gas Sensors Based on Chemi-Resistive Hybrid Functional Nanomaterials. <i>Nano-Micro Letters</i> , 2020, 12, 71.	27.0	252
9	Trimetallic NiFeMo for Overall Electrochemical Water Splitting with a Low Cell Voltage. <i>ACS Energy Letters</i> , 2018, 3, 546-554.	17.4	205
10	Vertically Aligned MoS ₂ /Mo ₂ C hybrid Nanosheets Grown on Carbon Paper for Efficient Electrocatalytic Hydrogen Evolution. <i>ACS Catalysis</i> , 2017, 7, 7312-7318.	11.2	181
11	NiO@TiO ₂ heterostructured nanocables bridged by zero-bandgap rGO for highly efficient photocatalytic water splitting. <i>Nano Energy</i> , 2015, 16, 207-217.	16.0	136
12	Enhanced Photocatalytic Property of Reduced Graphene Oxide/TiO ₂ Nanobelt Surface Heterostructures Constructed by an In Situ Photochemical Reduction Method. <i>Small</i> , 2014, 10, 3775-3782.	10.0	130
13	Effects of Catalyst Phase on the Hydrogen Evolution Reaction of Water Splitting: Preparation of Phase-Pure Films of FeP, Fe ₂ P, and Fe ₃ P and Their Relative Catalytic Activities. <i>Chemistry of Materials</i> , 2018, 30, 3588-3598.	6.7	123
14	Bifunctional metal phosphide FeMnP films from single source metal organic chemical vapor deposition for efficient overall water splitting. <i>Nano Energy</i> , 2017, 39, 444-453.	16.0	117
15	Virucidal activity of a scorpion venom peptide variant mucroporin-M1 against measles, SARS-CoV and influenza H5N1 viruses. <i>Peptides</i> , 2011, 32, 1518-1525.	2.4	113
16	Hierarchical TiO ₂ nanowire/graphite fiber photoelectrocatalysis setup powered by a wind-driven nanogenerator: A highly efficient photoelectrocatalytic device entirely based on renewable energy. <i>Nano Energy</i> , 2015, 11, 19-27.	16.0	107
17	A TiO ₂ /FeMnP Core/Shell Nanorod Array Photoanode for Efficient Photoelectrochemical Oxygen Evolution. <i>ACS Nano</i> , 2017, 11, 4051-4059.	14.6	106
18	The hybrid nanostructure of MnCo ₂ O _{4.5} nanoneedle/carbon aerogel for symmetric supercapacitors with high energy density. <i>Nanoscale</i> , 2015, 7, 14401-14412.	5.6	99

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19	Lignosulphonate-cellulose derived porous activated carbon for supercapacitor electrode. Journal of Materials Chemistry A, 2015, 3, 15049-15056.	10.3	93
20	Enhanced Performance of Layered Titanate Nanowire-Based Supercapacitor Electrodes by Nickel Ion Exchange. ACS Applied Materials & Interfaces, 2014, 6, 4578-4586.	8.0	92
21	Microwave-assisted hydrothermal synthesis of Sn ₃ O ₄ nanosheet/rGO planar heterostructure for efficient photocatalytic hydrogen generation. Applied Catalysis B: Environmental, 2018, 227, 470-476.	20.2	86
22	Mucroporin, the First Cationic Host Defense Peptide from the Venom of <i>Lychas mucronatus</i> . Antimicrobial Agents and Chemotherapy, 2008, 52, 3967-3972.	3.2	84
23	Imcroporin, a New Cationic Antimicrobial Peptide from the Venom of the Scorpion <i>Isometrus maculatus</i> . Antimicrobial Agents and Chemotherapy, 2009, 53, 3472-3477.	3.2	83
24	Orientation Control of Graphene Flakes by Magnetic Field: Broad Device Applications of Macroscopically Aligned Graphene. Advanced Materials, 2017, 29, 1604453.	21.0	72
25	Cr(vi), Pb(ii), Cd(ii) adsorption properties of nanostructured BiOBr microspheres and their application in a continuous filtering removal device for heavy metal ions. Journal of Materials Chemistry A, 2014, 2, 2599.	10.3	71
26	Band structure engineering of bioinspired Fe doped SrMoO ₄ for enhanced photocatalytic nitrogen reduction performance. Nano Energy, 2019, 66, 104187.	16.0	71
27	Hierarchical hybrid nanostructures of Sn ₃ O ₄ on N doped TiO ₂ nanotubes with enhanced photocatalytic performance. Journal of Materials Chemistry A, 2015, 3, 19129-19136.	10.3	70
28	A new natural α -helical peptide from the venom of the scorpion <i>Heterometrus petersii</i> kills HCV. Peptides, 2011, 32, 11-19.	2.4	68
29	Rutile Nanorod/Anatase Nanowire Junction Array as Both Sensor and Power Supplier for High-Performance, Self-Powered, Wireless UV Photodetector. Small, 2016, 12, 2759-2767.	10.0	66
30	Effects of etching temperature and ball milling on the preparation and capacitance of Ti ₃ C ₂ MXene. Journal of Alloys and Compounds, 2018, 752, 32-39.	5.5	66
31	Pt nanoparticles supported on submicrometer-sized TiO ₂ spheres for effective methanol and ethanol oxidation. Electrochimica Acta, 2013, 105, 130-136.	5.2	59
32	Efficient photo-electrochemical water splitting based on hematite nanorods doped with phosphorus. Applied Catalysis B: Environmental, 2019, 248, 388-393.	20.2	59
33	Mucroporin-M1 Inhibits Hepatitis B Virus Replication by Activating the Mitogen-activated Protein Kinase (MAPK) Pathway and Down-regulating HNF4 α in Vitro and in Vivo*. Journal of Biological Chemistry, 2012, 287, 30181-30190.	3.4	57
34	BmKCT toxin inhibits glioma proliferation and tumor metastasis. Cancer Letters, 2010, 291, 158-166.	7.2	55
35	One-step synthesis of ultrathin nanobelts-assembled urchin-like anatase TiO ₂ nanostructures for highly efficient photocatalysis. CrystEngComm, 2017, 19, 129-136.	2.6	54
36	A Microorganism Bred TiO ₂ /Au/TiO ₂ Heterostructure for Whispering Gallery Mode Resonance Assisted Plasmonic Photocatalysis. ACS Nano, 2020, 14, 13876-13885.	14.6	54

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37	UV-visible-light-activated photocatalysts based on Bi ₂ O ₃ /Bi ₄ Ti ₃ O ₁₂ /TiO ₂ double-heterostructured TiO ₂ nanobelts. <i>Journal of Materials Chemistry</i> , 2012, 22, 23395.	6.7	53
38	Facile synthesis and in situ transmission electron microscopy investigation of a highly stable Sb ₂ Te ₃ /C nanocomposite for sodium-ion batteries. <i>Energy Storage Materials</i> , 2017, 9, 214-220.	18.0	53
39	Ultrafine Si nanowires/Sn ₃ O ₄ nanosheets 3D hierarchical heterostructured array as a photoanode with high-efficient photoelectrocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117798.	20.2	45
40	Surface Reconstruction on Uniform Cu Nanodisks Boosted Electrochemical Nitrate Reduction to Ammonia. , 2022, 4, 650-656.		42
41	2D crossed electric field for electrokinetic remediation of chromium contaminated soil. <i>Journal of Hazardous Materials</i> , 2010, 177, 1126-1133.	12.4	41
42	Roles of short amine in preparation and sizing performance of partly hydrolyzed ASA emulsion stabilized by Laponite particles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2011, 384, 150-156.	4.7	41
43	Rational design of colloidal AgGaS ₂ /CdSeS core/shell quantum dots for solar energy conversion and light detection. <i>Nano Energy</i> , 2021, 89, 106392.	16.0	39
44	Anti-apoptotic and neuroprotective effects of Tetramethylpyrazine following subarachnoid hemorrhage in rats. <i>Autonomic Neuroscience: Basic and Clinical</i> , 2008, 141, 22-30.	2.8	38
45	Anti-dsDNA Antibodies are one of the many autoantibodies in systemic lupus erythematosus. <i>F1000Research</i> , 2015, 4, 939.	1.6	38
46	Recombinant hirudin treatment modulates aquaporin-4 and aquaporin-9 expression after intracerebral hemorrhage in vivo. <i>Molecular Biology Reports</i> , 2009, 36, 1119-1127.	2.3	37
47	Top or Bottom, Assembling Modules Determine the Photocatalytic Property of the Sheetlike Nanostructured Hybrid Photocatalyst Composed with Sn ₃ O ₄ and rGO (GQD). <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 11775-11782.	6.7	37
48	Nature of T cell epitopes in lupus antigens and HLA-DR determines autoantibody initiation and diversification. <i>Annals of the Rheumatic Diseases</i> , 2019, 78, 380-390.	0.9	37
49	Design of histidine-rich peptides with enhanced bioavailability and inhibitory activity against hepatitis C virus. <i>Biomaterials</i> , 2013, 34, 3511-3522.	11.4	36
50	An Organic Solvent-Assisted Intercalation and Collection (OAIC) for Ti ₃ C ₂ T _x MXene with Controllable Sizes and Improved Yield. <i>Nano-Micro Letters</i> , 2021, 13, 188.	27.0	36
51	Bismuth titanate nanobelts through a low-temperature nanoscale solid-state reaction. <i>Acta Materialia</i> , 2014, 62, 258-266.	7.9	33
52	Hot Hole Enhanced Synergistic Catalytic Oxidation on Pt-Cu Alloy Clusters. <i>Advanced Science</i> , 2017, 4, 1600448.	11.2	33
53	Gram-scale wet chemical synthesis of Ag ₂ O/TiO ₂ aggregated sphere heterostructure with high photocatalytic activity. <i>Materials Letters</i> , 2013, 91, 81-83.	2.6	31
54	TiO ₂ /TiN core/shell nanobelts for efficient solar hydrogen generation. <i>Chemical Communications</i> , 2018, 54, 6056-6059.	4.1	30

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55	Hierarchical Porous Carbon with Interconnected Ordered Pores from Biowaste for High-Performance Supercapacitor Electrodes. <i>Nanoscale Research Letters</i> , 2020, 15, 88.	5.7	30
56	Facile Synthesis of Carbon Nanobelts Decorated with Cu and Pd for Nitrate Electroreduction to Ammonia. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 30969-30978.	8.0	30
57	Effects of tetramethylpyrazine on nitric oxide/cGMP signaling after cerebral vasospasm in rabbits. <i>Brain Research</i> , 2010, 1361, 67-75.	2.2	28
58	Phase inversion of TiO ₂ nanoparticle stabilized emulsions of alkenyl succinic anhydride. <i>Chemical Engineering Science</i> , 2013, 87, 246-257.	3.8	27
59	Three-dimensional CdS nanostructure for photoelectrochemical sensor. <i>Sensors and Actuators B: Chemical</i> , 2013, 182, 461-466.	7.8	27
60	A novel aptameric biosensor based on the self-assembled DNA@WS ₂ nanosheet architecture. <i>Talanta</i> , 2017, 163, 78-84.	5.5	26
61	CLDN1 Increases Drug Resistance of Non-Small Cell Lung Cancer by Activating Autophagy via Up-Regulation of ULK1 Phosphorylation. <i>Medical Science Monitor</i> , 2017, 23, 2906-2916.	1.1	26
62	An In Situ Coupling Strategy toward Porous Carbon Liquid with Permanent Porosity. <i>Small</i> , 2021, 17, e2006687.	10.0	26
63	Facile synthesis of Ni _{0.5} Mn _{0.5} Co ₂ O ₄ nanoflowers as high-performance electrode material for supercapacitors. <i>Journal of the American Ceramic Society</i> , 2019, 102, 6893-6903.	3.8	24
64	Fe doped SrWO ₄ with tunable band structure for photocatalytic nitrogen fixation. <i>Nanotechnology</i> , 2020, 31, 375402.	2.6	23
65	Lanthanum-incorporated ¹² Ni(OH) ₂ nanoarrays for robust urea electro-oxidation. <i>Chemical Communications</i> , 2021, 57, 2029-2032.	4.1	21
66	Inpatient Suicide in a Chinese Psychiatric Hospital. <i>Suicide and Life-Threatening Behavior</i> , 2008, 38, 449-455.	1.9	20
67	Charge Transport at the Metal-Organic Interface. <i>Annual Review of Physical Chemistry</i> , 2013, 64, 221-245.	10.8	20
68	Tunable and stable localized surface plasmon resonance in SrMoO ₄ for enhanced visible light driven nitrogen reduction. <i>Chinese Journal of Catalysis</i> , 2021, 42, 1763-1771.	14.0	20
69	Charge transport at the metal oxide and organic interface. <i>Nanoscale</i> , 2012, 4, 7301.	5.6	18
70	Construction of hierarchical sea urchin-like manganese substituted nickel cobaltite@tricobalt tetraoxide core-shell microspheres on nickel foam as binder-free electrodes for high performance supercapacitors. <i>Journal of Colloid and Interface Science</i> , 2021, 596, 89-99.	9.4	16
71	Graphene Flakes: Orientation Control of Graphene Flakes by Magnetic Field: Broad Device Applications of Macroscopically Aligned Graphene (Adv. Mater. 1/2017). <i>Advanced Materials</i> , 2017, 29, .	21.0	15
72	Superassembly of NiCo _x solid solution hybrids with a 2D/3D porous polyhedron-on-sheet structure for multi-functional electrocatalytic oxidation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8576-8585.	10.3	14

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73	Interface-Regulated Contact Electrification for Power-Free and Highly Selective Gas Sensing. <i>Advanced Intelligent Systems</i> , 2019, 1, 1900066.	6.1	11
74	Single-Agent Versus Double-Agent Chemotherapy in Concurrent Chemoradiotherapy for Esophageal Squamous Cell Carcinoma: Prospective, Randomized, Multicenter Phase II Clinical Trial. <i>Oncologist</i> , 2020, 25, e1900-e1908.	3.7	9
75	Directed charge transfer in all solid state heterojunction of Fe doped MoS ₂ and TiO ₂ nanosheet for enhanced nitrogen photofixation. <i>Materials Today Physics</i> , 2021, 21, 100563.	6.0	9
76	Scaly Graphene Oxide/Graphite Fiber Hybrid Electrodes for DNA Biosensors. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500072.	3.7	8
77	Preparation of Gd ₂ Zr ₂ O ₇ nanopowders by polyacrylamide gel method and their sintering behaviors. <i>Journal of the European Ceramic Society</i> , 2022, 42, 1585-1593.	5.7	8
78	Hierarchically Assembled ZnO Nanorods on TiO ₂ /SUB>2</SUB>; Nanobelts for High Performance Gas Sensor. <i>Energy and Environment Focus</i> , 2014, 3, 404-410.	0.3	7
79	Development and Validation of a Sensitive and Specific LC-MS-MS Method for the Determination of Acotiamide in Rat Plasma. <i>Journal of Chromatographic Science</i> , 2016, 54, 1004-1009.	1.4	6
80	Facile Amidogen Bio-Activation Method Can Boost the Soft Tissue Integration on 3D Printed Poly-Ether-Ether-Ketone Interface. <i>Advanced Materials Interfaces</i> , 2021, 8, 2100547.	3.7	4
81	Cobalt, iron co-incorporated Ni(OH) ₂ multiphase for superior multifunctional electrocatalytic oxidation. <i>Chemical Communications</i> , 2021, 57, 13752-13755.	4.1	4
82	An Impedimetric-Fluorescence Double-Checking Biosensor with Enhanced Reliability Based on Graphene Oxide. <i>Advanced Materials Interfaces</i> , 2015, 2, 1500279.	3.7	3
83	Autoimmune experimental orchitis and chronic glomerulonephritis with end stage renal disease are controlled by Cgzn1 for susceptibility to end organ damage. <i>Clinical Immunology</i> , 2021, 224, 108675.	3.2	3
84	Nanomaterials for Hydrogen Generation from Solar Water Splitting. <i>Nanoscience and Technology</i> , 2016, , 445-470.	1.5	2
85	Controlling Response of Polyaniline Towards Humidity by Self-Assembly Fatty Acids. <i>ECS Journal of Solid State Science and Technology</i> , 2022, 11, 037001.	1.8	2
86	Synthesis of octapod Cu-Au bimetallic nanocrystal with concave structure through galvanic replacement reaction. <i>Journal of Electronic Science and Technology</i> , 2020, 18, 100046.	3.6	1
87	Effects of Yeast on Bacterial Community in Kitchen Waste Anaerobic Fermentation System. <i>International Conference on Bioinformatics and Biomedical Engineering: [proceedings] International Conference on Bioinformatics and Biomedical Engineering</i> , 2010, , .	0.0	0
88	S-1 versus S-1 plus cisplatin concurrent intensity modulated radiation therapy in the treatment of esophageal squamous cell carcinoma. <i>Medicine (United States)</i> , 2017, 96, e8998.	1.0	0
89	<p>CYP2C19; Genotyping Be Recommended as a Straight Forward Approach to Optimize Clopidogrel Utilization in Patients with Ischemic Stroke Complicated by Type 2 Diabetes Mellitus?</p>. <i>Pharmacogenomics and Personalized Medicine</i> , 2020, Volume 13, 645-653.	0.7	0
90	Mechanisms of renal damage in systemic lupus erythematosus. , 2021, , 313-324.		0

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91	Defect-Induced Ferromagnetism in VO ₂ Nanobelts: Theoretical and Experimental Insights. Science of Advanced Materials, 2014, 6, 276-282.	0.7	0