Zhuo Zhang

List of Publications by Year
in descending order

41 papers	1,481 citations	361413 20 h-index	315739 38 g-index
41 all docs	41 docs citations	41 times ranked	2426 citing authors

#	Article	IF	Citations
1	Floc-like CNTs jointed with BixFe1â^'xVO4 nanoparticles for high efficient and stable photoelectrochemical seawater splitting. Journal of Alloys and Compounds, 2022, 893, 162146.	5.5	10
2	N-doped mixed Co, Ni-oxides with petal structure as effective catalysts for hydrogen and oxygen evolution by water splitting. RSC Advances, 2021, 11, 1022-1029.	3.6	4
3	Rapid fabrication of hierarchical porous SiC/C hybrid structure: toward high-performance capacitive energy storage with ultrahigh cyclability. Journal of Materials Science, 2021, 56, 16068-16081.	3.7	8
4	MOF-derived NiCoZnP nanoclusters anchored on hierarchical N-doped carbon nanosheets array as bifunctional electrocatalysts for overall water splitting. Chemical Engineering Journal, 2021, 422, 130533.	12.7	79
5	Highly oriented and polyoxometalate-incorporating surface-attached metalâ€“organic frameworks for efficient dye adsorption and water oxidation. Dalton Transactions, 2020, 49, 16627-16632.	3.3	10
6	Crystallization Behavior of Synthesized CaOâ€“SiO₂â€“CaF₂â€“La₂O₃ Rare Earth-containing Slag. ISIJ International, 2020, 60, 832-839.	1.4	5
7	Regulating charge transfer over 3D Au/ZnO hybrid inverse opal toward efficiently photocatalytic degradation of bisphenol A and photoelectrochemical water splitting. Chemical Engineering Journal, 2020, 393, 124676.	12.7	80
8	Carbothermal Reduction, Melting Separation, and Structural Analysis of Carbon-bearing Rare Earth Iron Ore Pellets. ISIJ International, 2020, 60, 1141-1148.	1.4	6
9	A biomimetic nanoleaf electrocatalyst for robust oxygen evolution reaction. Applied Catalysis B: Environmental, 2019, 259, 118017.	20.2	46
10	Multichannel Charge Transport of a BiVO4/(RGO/WO3)/W18O49 Three-Storey Anode for Greatly Enhanced Photoelectrochemical Efficiency. ACS Applied Materials & Interfaces, 2018, 10, 6218-6227.	8.0	32
11	Photoelectrochemical enhancement of ZnO/BiVO4/ZnFe2O4/rare earth oxide hetero-nanostructures. Applied Surface Science, 2018, 429, 29-36.	6.1	15
12	Ostwald Ripening Driven Exfoliation to Ultrathin Layered Double Hydroxides Nanosheets for Enhanced Oxygen Evolution Reaction. ACS Applied Materials & Interfaces, 2018, 10, 44518-44526.	8.0	53
13	Synergistic doping effects of a ZnO:N/BiVO₄:Mo bunched nanorod array photoanode for enhancing charge transfer and carrier density in photoelectrochemical systems. Nanoscale, 2018, 10, 20256-20265.	5.6	42
14	Ni(OH)₂â€“WP Hybrid Nanorod Arrays for Highly Efficient and Durable Hydrogen Evolution Reactions in Alkaline Media. ChemSusChem, 2018, 11, 3618-3624.	6.8	35
15	Efficient Photoconversion and Charge Separation of a (Mn²⁺-Fe₂O₃)/Reduced Graphene Oxide/(Fe³⁺-WO₃) Photoelectrochemical Anode via Band-Structure Modulation. ACS Sustainable Chemistry and Engineering, 2018, 6, 13462-13472.	6.7	11
16	An antenna/spacer/reflector based Au/BiVO4/WO3/Au nanopatterned photoanode for plasmon-enhanced photoelectrochemical water splitting. Applied Catalysis B: Environmental, 2018, 237, 763-771.	20.2	70
17	Corrosion-Assisted Self-Growth of Au-Decorated ZnO Corn Silks and Their Photoelectrochemical Enhancement. ACS Applied Materials & Interfaces, 2017, 9, 3967-3976.	8.0	30
18	Elevated photoelectrochemical activity of FeVO₄/ZnFe₂O₄/ZnO branch-structures via slag assisted-synthesis. RSC Advances, 2017, 7, 16787-16794.	3.6	13

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19	Design and roles of RGO-wrapping in charge transfer and surface passivation in photoelectrochemical enhancement of cascade-band photoanode. Nano Research, 2017, 10, 2415-2430.	10.4	11
20	Enhanced photoelectrochemical and photocatalytic efficiency of rare earth slag decorated CdSe/ZnO hetero-nanorods. Research on Chemical Intermediates, 2017, 43, 5587-5600.	2.7	2
21	ZnFe2O4 Nanotapers: Slag Assistant-Growth and Enhanced Photoelectrochemical Efficiency. Nanoscale Research Letters, 2017, 12, 211.	5.7	13
22	An unconventional outer-to-inner synthesis strategy for core (Au)â€“shell nanostructures with photo-electrochemical enhancement. Nanoscale, 2017, 9, 5342-5351.	5.6	8
23	Novel Heterostructure of CdSe Nanobridge on ZnO Nanorods: Cdâ€Carboxylâ€RGOâ€Assisted Synthesis and Enhanced Photoelectrochemical Efficiency. Advanced Materials Interfaces, 2016, 3, 1500737.	3.7	17
24	Recycling Rareâ€Earth Slag for Enhanced Photoelectroâ€chemical Efficiency of a Reduced Graphene Oxideâ€Covered CdSe@ZnO Heteroâ€Nanostructured Photoanode. ChemElectroChem, 2016, 3, 1890-1898.	3.4	7
25	Bio-inspired dewetted surfaces based on SiC/Si interlocked structures for enhanced-underwater stability and regenerative-drag reduction capability. Scientific Reports, 2016, 6, 24653.	3.3	28
26	Plasmonic and passivation effects of Au decorated RGO@CdSe nanofilm uplifted by CdSe@ZnO nanorods with photoelectrochemical enhancement. Nano Energy, 2016, 21, 185-197.	16.0	37
27	A Surface-Enhanced Raman Scattering Sensor Integrated with Battery-Controlled Fluidic Device for Capture and Detection of Trace Small Molecules. Scientific Reports, 2015, 5, 12865.	3.3	19
28	Morphological optimization of large-area arrays of TiO2 nanowires & nanotubes for enhanced cold field emission: experiment and theory. RSC Advances, 2015, 5, 19470-19478.	3.6	9
29	CNTs-anchored egg shell membrane decorated with Ag-NPs as cheap but effective SERS substrates. Science China Materials, 2015, 58, 198-203.	6.3	16
30	Thermal replacement reaction: a novel route for synthesizing eco-friendly ZnO@Î³-In₂Se₃hetero-nanostructures by replacing cadmium with indium and their photoelectrochemical and photocatalytic performances. Nanoscale, 2015, 7, 8748-8757.	5.6	12
31	A two-storey structured photoanode of a 3D Cu₂ZnSnS₄/CdS/ZnO@steel composite nanostructure for efficient photoelectrochemical hydrogen generation. Nanoscale, 2015, 7, 15291-15299.	5.6	23
32	Urchin-like Au-nanoparticles@Ag-nanohemisphere arrays as active SERS-substrates for recognition of PCBs. RSC Advances, 2014, 4, 19654-19657.	3.6	15
33	Enhanced Cold Field Emission of Large-area Arrays of Vertically Aligned ZnO-nanotapers via Sharpening: Experiment and Theory. Scientific Reports, 2014, 4, 4676.	3.3	38
34	Largeâ€area Ag nanorod array substrates for SERS: AAO templateâ€assisted fabrication, functionalization, and application in detection PCBs. Journal of Raman Spectroscopy, 2013, 44, 240-246.	2.5	119
35	Facile synthesis of large-scale Ag nanosheet-assembled films with sub-10nm gaps as highly active and homogeneous SERS substrates. Applied Surface Science, 2013, 264, 383-390.	6.1	23
36	Galvanicâ€Cellâ€Induced Growth of Ag Nanosheetâ€Assembled Structures as Sensitive and Reproducible SERS Substrates. Chemistry - A European Journal, 2012, 18, 14948-14953.	3.3	33

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37	Arrays of Coneâ€Shaped ZnO Nanorods Decorated with Ag Nanoparticles as 3D Surfaceâ€Enhanced Raman Scattering Substrates for Rapid Detection of Trace Polychlorinated Biphenyls. Advanced Functional Materials, 2012, 22, 218-224.	14.9	312
38	Ag nanosheet-assembled micro-hemispheres as effective SERS substrates. Chemical Communications, 2011, 47, 2709-2711.	4.1	101
39	Aligned ZnO Nanorods with Tunable Size and Field Emission on Native Si Substrate Achieved via Simple Electrodeposition. Journal of Physical Chemistry C, 2010, 114, 189-193.	3.1	50
40	Prototype of a Porous ZnO SPV-Based Sensor for PCB Detection at Room Temperature under Visible Light Illumination. Langmuir, 2010, 26, 13703-13706.	3.5	24
41	Crystalline Silicon Nanotubes and Their Connections with Gold Nanowires in Both Linear and Branched Topologies. ACS Nano, 2010, 4, 7105-7112.	14.6	15