

Zhuo Zhang

List of Publications by Year in descending order

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41
papers

1,481
citations

361413

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times ranked

2426
citing authors

#	ARTICLE	IF	CITATIONS
1	Arrays of Cone-Shaped ZnO Nanorods Decorated with Ag Nanoparticles as 3D Surface-Enhanced Raman Scattering Substrates for Rapid Detection of Trace Polychlorinated Biphenyls. <i>Advanced Functional Materials</i> , 2012, 22, 218-224.	14.9	312
2	Large-area Ag nanorod array substrates for SERS: AAO template-assisted fabrication, functionalization, and application in detection PCBs. <i>Journal of Raman Spectroscopy</i> , 2013, 44, 240-246.	2.5	119
3	Ag nanosheet-assembled micro-hemispheres as effective SERS substrates. <i>Chemical Communications</i> , 2011, 47, 2709-2711.	4.1	101
4	Regulating charge transfer over 3D Au/ZnO hybrid inverse opal toward efficiently photocatalytic degradation of bisphenol A and photoelectrochemical water splitting. <i>Chemical Engineering Journal</i> , 2020, 393, 124676.	12.7	80
5	MOF-derived NiCoZnP nanoclusters anchored on hierarchical N-doped carbon nanosheets array as bifunctional electrocatalysts for overall water splitting. <i>Chemical Engineering Journal</i> , 2021, 422, 130533.	12.7	79
6	An antenna/spacer/reflector based Au/BiVO ₄ /WO ₃ /Au nanopatterned photoanode for plasmon-enhanced photoelectrochemical water splitting. <i>Applied Catalysis B: Environmental</i> , 2018, 237, 763-771.	20.2	70
7	Ostwald Ripening Driven Exfoliation to Ultrathin Layered Double Hydroxides Nanosheets for Enhanced Oxygen Evolution Reaction. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 44518-44526.	8.0	53
8	Aligned ZnO Nanorods with Tunable Size and Field Emission on Native Si Substrate Achieved via Simple Electrodeposition. <i>Journal of Physical Chemistry C</i> , 2010, 114, 189-193.	3.1	50
9	A biomimetic nanoleaf electrocatalyst for robust oxygen evolution reaction. <i>Applied Catalysis B: Environmental</i> , 2019, 259, 118017.	20.2	46
10	Synergistic doping effects of a ZnO:N/BiVO ₄ :Mo bunched nanorod array photoanode for enhancing charge transfer and carrier density in photoelectrochemical systems. <i>Nanoscale</i> , 2018, 10, 20256-20265.	5.6	42
11	Enhanced Cold Field Emission of Large-area Arrays of Vertically Aligned ZnO-nanotapers via Sharpening: Experiment and Theory. <i>Scientific Reports</i> , 2014, 4, 4676.	3.3	38
12	Plasmonic and passivation effects of Au decorated RGO@CdSe nanofilm uplifted by CdSe@ZnO nanorods with photoelectrochemical enhancement. <i>Nano Energy</i> , 2016, 21, 185-197.	16.0	37
13	Ni(OH) ₂ -WP Hybrid Nanorod Arrays for Highly Efficient and Durable Hydrogen Evolution Reactions in Alkaline Media. <i>ChemSusChem</i> , 2018, 11, 3618-3624.	6.8	35
14	Galvanic-Cell-Induced Growth of Ag Nanosheet-Assembled Structures as Sensitive and Reproducible SERS Substrates. <i>Chemistry - A European Journal</i> , 2012, 18, 14948-14953.	3.3	33
15	Multichannel Charge Transport of a BiVO ₄ (RGO/WO ₃)/W ₁₈ O ₄₉ Three-Storey Anode for Greatly Enhanced Photoelectrochemical Efficiency. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 6218-6227.	8.0	32
16	Corrosion-Assisted Self-Growth of Au-Decorated ZnO Corn Silks and Their Photoelectrochemical Enhancement. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 3967-3976.	8.0	30
17	Bio-inspired dewetted surfaces based on SiC/Si interlocked structures for enhanced-underwater stability and regenerative-drag reduction capability. <i>Scientific Reports</i> , 2016, 6, 24653.	3.3	28
18	Prototype of a Porous ZnO SPV-Based Sensor for PCB Detection at Room Temperature under Visible Light Illumination. <i>Langmuir</i> , 2010, 26, 13703-13706.	3.5	24

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19	Facile synthesis of large-scale Ag nanosheet-assembled films with sub-10nm gaps as highly active and homogeneous SERS substrates. <i>Applied Surface Science</i> , 2013, 264, 383-390.	6.1	23
20	A two-storey structured photoanode of a 3D Cu ₂ ZnSnS ₄ /CdS/ZnO@steel composite nanostructure for efficient photoelectrochemical hydrogen generation. <i>Nanoscale</i> , 2015, 7, 15291-15299.	5.6	23
21	A Surface-Enhanced Raman Scattering Sensor Integrated with Battery-Controlled Fluidic Device for Capture and Detection of Trace Small Molecules. <i>Scientific Reports</i> , 2015, 5, 12865.	3.3	19
22	Novel Heterostructure of CdSe Nanobridge on ZnO Nanorods: Cd-Carboxyl-RGO-Assisted Synthesis and Enhanced Photoelectrochemical Efficiency. <i>Advanced Materials Interfaces</i> , 2016, 3, 1500737.	3.7	17
23	CNTs-anchored egg shell membrane decorated with Ag-NPs as cheap but effective SERS substrates. <i>Science China Materials</i> , 2015, 58, 198-203.	6.3	16
24	Crystalline Silicon Nanotubes and Their Connections with Gold Nanowires in Both Linear and Branched Topologies. <i>ACS Nano</i> , 2010, 4, 7105-7112.	14.6	15
25	Urchin-like Au-nanoparticles@Ag-nanohemisphere arrays as active SERS-substrates for recognition of PCBs. <i>RSC Advances</i> , 2014, 4, 19654-19657.	3.6	15
26	Photoelectrochemical enhancement of ZnO/BiVO ₄ /ZnFe ₂ O ₄ /rare earth oxide hetero-nanostructures. <i>Applied Surface Science</i> , 2018, 429, 29-36.	6.1	15
27	Elevated photoelectrochemical activity of FeVO ₄ /ZnFe ₂ O ₄ /ZnO branch-structures via slag assisted-synthesis. <i>RSC Advances</i> , 2017, 7, 16787-16794.	3.6	13
28	ZnFe ₂ O ₄ Nanotapers: Slag Assistant-Growth and Enhanced Photoelectrochemical Efficiency. <i>Nanoscale Research Letters</i> , 2017, 12, 211.	5.7	13
29	Thermal replacement reaction: a novel route for synthesizing eco-friendly ZnO@I ³ -In ₂ Se ₃ hetero-nanostructures by replacing cadmium with indium and their photoelectrochemical and photocatalytic performances. <i>Nanoscale</i> , 2015, 7, 8748-8757.	5.6	12
30	Design and roles of RGO-wrapping in charge transfer and surface passivation in photoelectrochemical enhancement of cascade-band photoanode. <i>Nano Research</i> , 2017, 10, 2415-2430.	10.4	11
31	Efficient Photoconversion and Charge Separation of a (Mn ²⁺ -Fe ₂ O ₃)/Reduced Graphene Oxide/(Fe ³⁺ -WO ₃) Photoelectrochemical Anode via Band-Structure Modulation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 13462-13472.	6.7	11
32	Highly oriented and polyoxometalate-incorporating surface-attached metal-organic frameworks for efficient dye adsorption and water oxidation. <i>Dalton Transactions</i> , 2020, 49, 16627-16632.	3.3	10
33	Floc-like CNTs jointed with Bi ₂ FeVO ₄ nanoparticles for high efficient and stable photoelectrochemical seawater splitting. <i>Journal of Alloys and Compounds</i> , 2022, 893, 162146.	5.5	10
34	Morphological optimization of large-area arrays of TiO ₂ nanowires & nanotubes for enhanced cold field emission: experiment and theory. <i>RSC Advances</i> , 2015, 5, 19470-19478.	3.6	9
35	An unconventional outer-to-inner synthesis strategy for core (Au)-shell nanostructures with photo-electrochemical enhancement. <i>Nanoscale</i> , 2017, 9, 5342-5351.	5.6	8
36	Rapid fabrication of hierarchical porous SiC/C hybrid structure: toward high-performance capacitive energy storage with ultrahigh cyclability. <i>Journal of Materials Science</i> , 2021, 56, 16068-16081.	3.7	8

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37	Recycling Rare-Earth Slag for Enhanced Photoelectrochemical Efficiency of a Reduced Graphene Oxide-Covered CdSe@ZnO Hetero-Nanostructured Photoanode. <i>ChemElectroChem</i> , 2016, 3, 1890-1898.	3.4	7
38	Carbothermal Reduction, Melting Separation, and Structural Analysis of Carbon-bearing Rare Earth Iron Ore Pellets. <i>ISIJ International</i> , 2020, 60, 1141-1148.	1.4	6
39	Crystallization Behavior of Synthesized CaO-SiO ₂ -CaF ₂ -La ₂ O ₃ Rare Earth-containing Slag. <i>ISIJ International</i> , 2020, 60, 832-839.		
40	N-doped mixed Co, Ni-oxides with petal structure as effective catalysts for hydrogen and oxygen evolution by water splitting. <i>RSC Advances</i> , 2021, 11, 1022-1029.	3.6	4
41	Enhanced photoelectrochemical and photocatalytic efficiency of rare earth slag decorated CdSe/ZnO hetero-nanorods. <i>Research on Chemical Intermediates</i> , 2017, 43, 5587-5600.	2.7	2