

Shouwei Zhang

List of Publications by Year in descending order

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46
papers

4,182
citations

101543

36
h-index

223800

46
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all docs

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docs citations

47
times ranked

5266
citing authors

#	ARTICLE	IF	CITATIONS
1	In Situ Synthesis of Water-Soluble Magnetic Graphitic Carbon Nitride Photocatalyst and Its Synergistic Catalytic Performance. ACS Applied Materials & Interfaces, 2013, 5, 12735-12743.	8.0	290
2	Strongly Coupled $\text{g-C}_3\text{N}_4$ Nanosheets@ Co_3O_4 Quantum Dots as 2D/0D Heterostructure Composite for Peroxymonosulfate Activation. Small, 2018, 14, e1801353.	10.0	284
3	Formation of Fe_3O_4 @ MnO_2 ball-in-ball hollow spheres as a high performance catalyst with enhanced catalytic performances. Journal of Materials Chemistry A, 2016, 4, 1414-1422.	10.3	248
4	Constructing electrostatic self-assembled 2D/2D ultra-thin ZnIn_2S_4 /protonated g-C $_3\text{N}_4$ heterojunctions for excellent photocatalytic performance under visible light. Applied Catalysis B: Environmental, 2019, 256, 117862.	20.2	185
5	One-pot Synthesis of CdS Irregular Nanospheres Hybridized with Oxygen-Incorporated Defect-Rich MoS_2 Ultrathin Nanosheets for Efficient Photocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2017, 9, 23635-23646.	8.0	178
6	Construction of dual defect mediated Z-scheme photocatalysts for enhanced photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2019, 245, 399-409.	20.2	174
7	Engineering of Z-scheme 2D/3D architectures with $\text{Ni}(\text{OH})_2$ on 3D porous g-C $_3\text{N}_4$ for efficiently photocatalytic H_2 evolution. Applied Catalysis B: Environmental, 2019, 258, 117997.	20.2	164
8	Ultrathin $\text{g-C}_3\text{N}_4$ nanosheets coupled with amorphous Cu-doped FeOOH nanoclusters as 2D/0D heterogeneous catalysts for water remediation. Environmental Science: Nano, 2018, 5, 1179-1190.	4.3	156
9	Polyaniline nanorods dotted on graphene oxide nanosheets as a novel super adsorbent for $\text{Cr}(\text{vi})$. Dalton Transactions, 2013, 42, 7854.	3.3	151
10	Unexpected ultrafast and high adsorption capacity of oxygen vacancy-rich WO_x/C nanowire networks for aqueous Pb^{2+} and methylene blue removal. Journal of Materials Chemistry A, 2017, 5, 15913-15922.	10.3	150
11	Efficient enrichment of uranium(vi) on amidoximated magnetite/graphene oxide composites. RSC Advances, 2013, 3, 18952.	3.6	147
12	Rice husks as a sustainable silica source for hierarchical flower-like metal silicate architectures assembled into ultrathin nanosheets for adsorption and catalysis. Journal of Hazardous Materials, 2017, 321, 92-102.	12.4	136
13	Amidoxime-functionalized magnetic mesoporous silica for selective sorption of $\text{U}(\text{VI})$. RSC Advances, 2014, 4, 32710.	3.6	135
14	Superior adsorption capacity of hierarchical iron oxide@magnesium silicate magnetic nanorods for fast removal of organic pollutants from aqueous solution. Journal of Materials Chemistry A, 2013, 1, 11691.	10.3	133
15	MOF-derived $\text{CoN}/\text{N-C}@/\text{SiO}_2$ yolk-shell nanoreactor with dual active sites for highly efficient catalytic advanced oxidation processes. Chemical Engineering Journal, 2020, 381, 122670.	12.7	127
16	Hybrid 0D@2D Nanoheterostructures: In Situ Growth of Amorphous Silver Silicates Dots on $\text{g-C}_3\text{N}_4$ Nanosheets for Full-Spectrum Photocatalysis. ACS Applied Materials & Interfaces, 2016, 8, 35138-35149.	8.0	111
17	Efficient removal of metal contaminants by EDTA modified MOF from aqueous solutions. Journal of Colloid and Interface Science, 2019, 555, 403-412.	9.4	104
18	Three-Dimensional Hierarchical $\text{g-C}_3\text{N}_4$ Architectures Assembled by Ultrathin Self-Doped Nanosheets: Extremely Facile Hexamethylenetetramine Activation and Superior Photocatalytic Hydrogen Evolution. ACS Applied Materials & Interfaces, 2019, 11, 2050-2059.	8.0	103

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19	Fabrication of Fe/Fe ₃ C@porous carbon sheets from biomass and their application for simultaneous reduction and adsorption of uranium(^{VI}) from solution. <i>Inorganic Chemistry Frontiers</i> , 2014, 1, 641.	6.0	86
20	Hierarchical nanocomposites of polyaniline nanorods arrays on graphitic carbon nitride sheets with synergistic effect for photocatalysis. <i>Catalysis Today</i> , 2014, 224, 114-121.	4.4	73
21	Amidoxime-Functionalized Hollow Carbon Spheres for Efficient Removal of Uranium from Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 10800-10807.	6.7	70
22	Visible-Light Photocatalytic Degradation of Methylene Blue Using SnO ₂ /Fe ₂ O ₃ Hierarchical Nanoheterostructures. <i>ChemPlusChem</i> , 2013, 78, 192-199.	2.8	69
23	Surface functional groups and defects on carbon nanotubes affect adsorption-desorption hysteresis of metal cations and oxoanions in water. <i>Environmental Science: Nano</i> , 2014, 1, 488-495.	4.3	69
24	Hierarchically grown CdS/Fe ₂ O ₃ heterojunction nanocomposites with enhanced visible-light-driven photocatalytic performance. <i>Dalton Transactions</i> , 2013, 42, 13417.	3.3	65
25	Synthesis of TiO ₂ Nanoparticles on Plasma-Treated Carbon Nanotubes and Its Application in Photoanodes of Dye-Sensitized Solar Cells. <i>Journal of Physical Chemistry C</i> , 2011, 115, 22025-22034.	3.1	62
26	Sandwich-like P-doped h-BN/ZnIn ₂ S ₄ nanocomposite with direct Z-scheme heterojunction for efficient photocatalytic H ₂ and H ₂ O ₂ evolution. <i>Chemical Engineering Journal</i> , 2022, 442, 136151.	12.7	62
27	Constructing highly dispersed 0D Co ₃ S ₄ quantum dots/2D g-C ₃ N ₄ nanosheets nanocomposites for excellent photocatalytic performance. <i>Science Bulletin</i> , 2019, 64, 1510-1517.	9.0	58
28	Constructing the novel ultrafine amorphous iron oxyhydroxide/g-C ₃ N ₄ nanosheets heterojunctions for highly improved photocatalytic performance. <i>Scientific Reports</i> , 2017, 7, 8686.	3.3	53
29	ZnO@CdS Core-Shell Heterostructures: Fabrication, Enhanced Photocatalytic, and Photoelectrochemical Performance. <i>Nanoscale Research Letters</i> , 2016, 11, 205.	5.7	51
30	One-pot hydrothermal synthesis of CdS decorated CuS microflower-like structures for enhanced photocatalytic properties. <i>Scientific Reports</i> , 2017, 7, 3877.	3.3	51
31	Reduced interfacial recombination in dye-sensitized solar cells assisted with NiO:Eu ³⁺ , Tb ³⁺ coated TiO ₂ film. <i>Scientific Reports</i> , 2016, 6, 31123.	3.3	49
32	Metal organic framework derived heteroatoms and cyano (C N) group co-decorated porous g-C ₃ N ₄ nanosheets for improved photocatalytic H ₂ evolution and uranium(VI) reduction. <i>Journal of Colloid and Interface Science</i> , 2020, 570, 125-134.	9.4	44
33	Hierarchical flowerlike metal/metal oxide nanostructures derived from layered double hydroxides for catalysis and gas sensing. <i>Journal of Materials Chemistry A</i> , 2017, 5, 23999-24010.	10.3	43
34	Surface Area- and Structure-Dependent Effects of LDH for Highly Efficient Dye Removal. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 905-915.	6.7	39
35	Cellulose Fibers Constructed Convenient Recyclable 3D Graphene-Formicary-like Bi ₂ O ₃ Aerogels for the Selective Capture of Iodide. <i>ACS Applied Materials & Interfaces</i> , 2017, 9, 20554-20560.	8.0	38
36	In-situ synthesis of amorphous silver silicate/carbonate composites for selective visible-light photocatalytic decomposition. <i>Scientific Reports</i> , 2017, 7, 15001.	3.3	37

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37	Hierarchical multi-active component yolk-shell nanoreactors as highly active peroxydisulfate activator for ciprofloxacin degradation. <i>Journal of Colloid and Interface Science</i> , 2022, 605, 766-778.	9.4	37
38	Dopant and Defect Doubly Modified CeO ₂ /g-C ₃ N ₄ Nanosheets as OD/2D Z-Scheme Heterojunctions for Photocatalytic Hydrogen Evolution: Experimental and Density Functional Theory Studies. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 11479-11492.	6.7	36
39	Noble metal-free core-shell CdS/iron phthalocyanine Z-scheme photocatalyst for enhancing photocatalytic hydrogen evolution. <i>Journal of Materials Science and Technology</i> , 2022, 115, 199-207.	10.7	25
40	Fabrication of Hierarchical ZnO@NiO Core-Shell Heterostructures for Improved Photocatalytic Performance. <i>Nanoscale Research Letters</i> , 2018, 13, 260.	5.7	22
41	Construction of 3DOM Carbon Nitrides with Quasi-Honeycomb Structures for Efficient Photocatalytic H ₂ Production. <i>ChemCatChem</i> , 2018, 10, 5656-5664.	3.7	21
42	Activating and optimizing activity of CdS@g-C ₃ N ₄ heterojunction for photocatalytic hydrogen evolution through the synergistic effect of phosphorus doping and defects. <i>Journal of Alloys and Compounds</i> , 2020, 834, 155201.	5.5	21
43	Improving the photovoltaic performance of dye sensitized solar cells based on a hierarchical structure with up/down converters. <i>RSC Advances</i> , 2016, 6, 11880-11887.	3.6	15
44	Construction of cobalt nanoparticles decorated intertwined N-doped carbon nanotube clusters with dual active sites for highly effective 4-nitrophenol reduction. <i>Journal of Alloys and Compounds</i> , 2021, 858, 158287.	5.5	5
45	Enhanced Dye-Sensitized Solar Cell Efficiency by Insertion of a H ₃ PW ₁₂ O ₄₀ Layer Between the Transparent Conductive Oxide Layer and the Compact TiO ₂ Layer. <i>Science of Advanced Materials</i> , 2018, 10, 867-871.	0.7	4
46	New Properties of Two-Dimensional Materials: Highly Effective Thermal Catalytic Degradation Activity. <i>ChemistrySelect</i> , 2018, 3, 10133-10138.	1.5	1