Jun Zhang

List of Publications by Year
in descending order

58 papers	10,606 citations	81900 39 h-index	138484 58 g-index
59 all docs	59 docs citations	59 times ranked	10955 citing authors

#	Article	IF	Citations
1	Earth-abundant cocatalysts for semiconductor-based photocatalytic water splitting. Chemical Society Reviews, 2014, 43, 7787-7812.	38.1	2,125
2	Visible Light Photocatalytic H₂-Production Activity of CuS/ZnS Porous Nanosheets Based on Photoinduced Interfacial Charge Transfer. Nano Letters, 2011, 11, 4774-4779.	9.1	846
3	Noble Metal-Free Reduced Graphene Oxide-Zn_xCd_{1â€“x}S Nanocomposite with Enhanced Solar Photocatalytic H₂-Production Performance. Nano Letters, 2012, 12, 4584-4589.	9.1	845
4	Efficient Visible-Light Photocatalytic Hydrogen Evolution and Enhanced Photostability of Core/Shell CdS/g-C₃N₄ Nanowires. ACS Applied Materials & Interfaces, 2013, 5, 10317-10324.	8.0	747
5	Self-Assembled 3-D Architectures of BiOBr as a Visible Light-Driven Photocatalyst. Chemistry of Materials, 2008, 20, 2937-2941.	6.7	411
6	Novel urea assisted hydrothermal synthesis of hierarchical BiVO4/Bi2O2CO3 nanocomposites with enhanced visible-light photocatalytic activity. Applied Catalysis B: Environmental, 2011, 110, 286-295.	20.2	392
7	Enhanced photocatalytic H 2 -production activity of anatase TiO 2 nanosheet by selectively depositing dual-cocatalysts on {101} and {001} facets. Applied Catalysis B: Environmental, 2016, 198, 286-294.	20.2	375
8	Enhanced visible light photocatalytic H2-production of g-C3N4/WS2 composite heterostructures. Applied Surface Science, 2015, 358, 196-203.	6.1	327
9	Fabrication of NiS modified CdS nanorod pâ€“n junction photocatalysts with enhanced visible-light photocatalytic H2-production activity. Physical Chemistry Chemical Physics, 2013, 15, 12088.	2.8	323
10	Preparation and enhanced visible-light photocatalytic H2-production activity of CdS quantum dots-sensitized Zn1â^'xCdxS solid solution. Green Chemistry, 2010, 12, 1611.	9.0	321
11	Ion-Exchange Synthesis and Enhanced Visible-Light Photoactivity of CuS/ZnS Nanocomposite Hollow Spheres. Journal of Physical Chemistry C, 2010, 114, 13642-13649.	3.1	274
12	Ternary NiS/Zn_xCd_{1â€x}S/Reduced Graphene Oxide Nanocomposites for Enhanced Solar Photocatalytic H₂â€Production Activity. Advanced Energy Materials, 2014, 4, 1301925.	19.5	244
13	Enhanced Photocatalytic Hydrogen Production Activities of Au-Loaded ZnS Flowers. ACS Applied Materials & Interfaces, 2013, 5, 1031-1037.	8.0	221
14	Enhanced photocatalytic H2 production on CdS nanorod using cobalt-phosphate as oxidation cocatalyst. Applied Surface Science, 2016, 389, 775-782.	6.1	212
15	Cubic anatase TiO₂ nanocrystals with enhanced photocatalytic CO₂ reduction activity. Chemical Communications, 2015, 51, 7950-7953.	4.1	209
16	A simple template-free approach to TiO2 hollow spheres with enhanced photocatalytic activity. Dalton Transactions, 2010, 39, 5860.	3.3	208
17	A simple cation exchange approach to Bi-doped ZnS hollow spheres with enhanced UV and visible-light photocatalytic H2-production activity. Journal of Materials Chemistry, 2011, 21, 14655.	6.7	203
18	Z-scheme 2D/3D g-C3N4@ZnO with enhanced photocatalytic activity for cephalexin oxidation under solar light. Chemical Engineering Journal, 2018, 352, 412-422.	12.7	192

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19	Synthesis of nano titania particles embedded in mesoporous SBA-15: Characterization and photocatalytic activity. Journal of Hazardous Materials, 2006, 137, 952-958.	12.4	179
20	Double-Shelled CdS- and CdSe-Cosensitized ZnO Porous Nanotube Arrays for Superior Photoelectrocatalytic Applications. ACS Applied Materials & Interfaces, 2015, 7, 16387-16394.	8.0	169
21	Enhanced Visibleâ€Light Photocatalytic H₂ Production by Zn_xCd_{1â^’x}S Modified with Earthâ€Abundant Nickelâ€Based Cocatalysts. ChemSusChem, 2014, 7, 3426-3434.	6.8	164
22	Photocatalytic degradation of organic dyes with hierarchical Bi₂O₂CO₃microstructures under visible-light. CrystEngComm, 2013, 15, 231-240.	2.6	117
23	Enhanced visible light photocatalytic hydrogen production activity of CuS/ZnS nanoflower spheres. Journal of Materials Chemistry A, 2015, 3, 13913-13919.	10.3	108
24	Enhanced photocatalytic CO2 reduction activity of MOF-derived ZnO/NiO porous hollow spheres. Journal of CO2 Utilization, 2018, 24, 548-554.	6.8	106
25	Hot-electron-assisted S-scheme heterojunction of tungsten oxide/graphitic carbon nitride for broad-spectrum photocatalytic H2 generation. Chinese Journal of Catalysis, 2021, 42, 1478-1487.	14.0	99
26	Enhanced Photocatalytic Activity of Powders (P25) via Calcination Treatment. International Journal of Photoenergy, 2012, 2012, 1-9.	2.5	96
27	Ultrathin Co(Ni)-doped MoS2 nanosheets as catalytic promoters enabling efficient solar hydrogen production. Nano Research, 2016, 9, 2284-2293.	10.4	80
28	Crystalline phase-dependent photocatalytic water splitting for hydrogen generation on KNbO3 submicro-crystals. International Journal of Hydrogen Energy, 2013, 38, 3554-3561.	7.1	75
29	Enhanced photocatalytic activity and stability of semiconductor by Ag doping and simultaneous deposition: the case of CdS. RSC Advances, 2013, 3, 20782.	3.6	73
30	Enhanced Visibleâ€Light Hydrogenâ€Production Activity of Copperâ€Modified Zn_xCd_{1â^’x}S. ChemSusChem, 2013, 6, 2009-2015.	6.8	66
31	Influence of lattice integrity and phase composition on the photocatalytic hydrogen production efficiency of ZnS nanomaterials. Nanoscale, 2012, 4, 2859.	5.6	65
32	Long-term production of H2 over Pt/CdS nanoplates under sunlight illumination. Chemical Engineering Journal, 2016, 283, 351-357.	12.7	58
33	A study of constructing heterojunction between two-dimensional transition metal sulfides (MoS 2) Tj ETQq1 1 0.784314 rgBT /Overlo	6.1	57
34	Construction of ZnxCd1â^’xS/Bi2S3 composite nanospheres with photothermal effect for enhanced photocatalytic activities. Journal of Colloid and Interface Science, 2019, 546, 303-311.	9.4	56
35	Graphene-Zn0.5Cd0.5S nanocomposite with enhanced visible-light photocatalytic CO2 reduction activity. Applied Surface Science, 2020, 506, 144683.	6.1	48
36	Fabrication of CdMoO₄@CdS coreâ€“shell hollow superstructures as high performance visible-light driven photocatalysts. Physical Chemistry Chemical Physics, 2015, 17, 15339-15347.	2.8	47

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37	Respective construction of Type-II and direct Z-scheme heterostructure by selectively depositing CdS on {001} and {101} facets of TiO2 nanosheet with CDots modification: A comprehensive comparison. Journal of Hazardous Materials, 2019, 366, 311-320.	12.4	45
38	NiS nanoparticle decorated MoS₂ nanosheets as efficient promoters for enhanced solar H₂ evolution over Zn_xCd_{1â^'x}S nanorods. Inorganic Chemistry Frontiers, 2017, 4, 1042-1047.	6.0	41
39	One-pot template-free synthesis of porous CdMoO4 microspheres and their enhanced photocatalytic activity. Applied Surface Science, 2016, 387, 202-213.	6.1	39
40	Graphene oxide coupled carbon nitride homo-heterojunction photocatalyst for enhanced hydrogen production. Materials Chemistry Frontiers, 2017, 1, 562-571.	5.9	38
41	Combined CdS/In2S3 heterostructures with cocatalyst for boosting carriers separation and photoelectrochemical water splitting. Applied Surface Science, 2021, 541, 148431.	6.1	33
42	CoPt_x-loaded Zn_{0.5}Cd_{0.5}S nanocomposites for enhanced visible light photocatalytic H₂production. International Journal of Energy Research, 2016, 40, 1280-1286.	4.5	32
43	Enhancement of Visible-Light Photocatalytic Activity of Mesoporous Au-TiO₂Nanocomposites by Surface Plasmon Resonance. International Journal of Photoenergy, 2012, 2012, 1-10.	2.5	28
44	Two-Dimensional Layered Co(OH)₂/g-C₃N₄/Ni(OH)₂ Ternary Nanocomposites for Enhanced Visible-Light Photocatalytic H₂-Production Activity. ACS Applied Energy Materials, 2021, 4, 6340-6347.	5.1	27
45	ZnO nanowire arrays decorated 3D N-doped reduced graphene oxide nanotube framework for enhanced photocatalytic CO2 reduction performance. Journal of CO2 Utilization, 2021, 50, 101584.	6.8	25
46	Engineering 2D Cu-composed metalâ€“organic framework nanosheets for augmented nanocatalytic tumor therapy. Journal of Nanobiotechnology, 2022, 20, 66.	9.1	22
47	Construction of ultrafine Ag3PO4 nanoparticle and La2Ti2O7 nanosheet 0D/2D heterojunctions with improved photocatalytic performance. Journal of Alloys and Compounds, 2018, 740, 901-909.	5.5	19
48	One-Pot Template-Free Hydrothermal Synthesis of Monoclinic Hollow Microspheres and Their Enhanced Visible-Light Photocatalytic Activity. International Journal of Photoenergy, 2012, 2012, 1-10.	2.5	17
49	Enhancement of degradation for nitrogen doped zinc oxide to degrade methylene blue. Physica B: Condensed Matter, 2020, 583, 412029.	2.7	16
50	Solar-driven Pt modified hollow structured CdS photocatalyst for efficient hydrogen evolution. RSC Advances, 2014, 4, 36665.	3.6	15
51	Boosting oxygen electrocatalytic reactions with Mn₃O₄/self-growth N-doped carbon nanotubes induced by transition metal cobalt. Catalysis Science and Technology, 2020, 10, 7256-7261.	4.1	14
52	Visible-light-driven photocatalytic N₂ fixation to nitrates by 2D/2D ultrathin BiVO₄ nanosheet/rGO nanocomposites. Chemical Communications, 2022, 58, 2184-2187.	4.1	14
53	Silver Iodide Nanospheres Wrapped in Reduced Graphene Oxide for Enhanced Photocatalysis. ChemCatChem, 2015, 7, 2918-2923.	3.7	13
54	Synthesis of nanosized TiO2/SiO2 catalysts by the ultrasonic microemulsion method and their photocatalytic activity. Reaction Kinetics and Catalysis Letters, 2007, 91, 21-28.	0.6	10

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55	Hierarchical sandwich NiFe layered double hydroxide/reduced graphene oxide for high energy density asymmetric supercapacitors. Journal of Electroanalytical Chemistry, 2022, 907, 116065.	3.8	10
56	Facile Synthesis and Photocatalytic Property of Titania/Carbon Composite Hollow Microspheres with Bimodal Mesoporous Shells. International Journal of Photoenergy, 2012, 2012, 1-9.	2.5	4
57	Two-dimensional Hf2CO2/GaN van der Waals heterostructure for overall water splitting: a density functional theory study. Journal of Materials Science: Materials in Electronics, 2021, 32, 19368-19379.	2.2	4
58	Enhanced Photocatalytic H₂-Production Activity of Graphitic Carbon Nitride Modified Using a MnO_x Cocatalyst. Nano, 2021, 16, .	1.0	0