

Xianliang Fu

List of Publications by Year in descending order

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7,443
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41344

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53230

85
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100
docs citations

100
times ranked

7783
citing authors

#	ARTICLE	IF	CITATIONS
1	Low-crystalline PdCu alloy on large-area ultrathin 2D carbon nitride nanosheets for efficient photocatalytic Suzuki coupling. <i>Applied Catalysis B: Environmental</i> , 2022, 300, 120756.	20.2	29
2	Unraveling Electron Structure and Reaction Mechanisms of Functionalized Nickel-Based Complexes for Efficient Hydrogen Evolution. <i>Journal of Physical Chemistry C</i> , 2022, 126, 1857-1871.	3.1	4
3	Efficient H ₂ evolution on Co ₃ S ₄ /Zn _{0.5} Cd _{0.5} S nanocomposites by photocatalytic synergistic reaction. <i>Inorganic Chemistry Frontiers</i> , 2022, 9, 1943-1955.	6.0	22
4	Accelerating Nickel-Based Molecular Construction via DFT Guidance for Advanced Photocatalytic Hydrogen Production. <i>ACS Applied Materials & Interfaces</i> , 2022, 14, 17486-17499.	8.0	4
5	Coupled visible-light driven photocatalytic reactions over porphyrin-based MOF materials. <i>Chemical Engineering Journal</i> , 2022, 442, 136186.	12.7	44
6	Recent advances in special morphologic photocatalysts for NO _x removal. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	6.0	4
7	MoS ₂ /Zn ₃ In ₂ S ₆ composite photocatalysts for enhancement of visible light-driven hydrogen production from formic acid. <i>Chinese Journal of Catalysis</i> , 2021, 42, 193-204.	14.0	55
8	Intimately Contacted Ni ₂ P on CdS Nanorods for Highly Efficient Photocatalytic H ₂ Evolution: New Phosphidation Route and the Interfacial Separation Mechanism of Charge Carriers. <i>Applied Catalysis B: Environmental</i> , 2021, 281, 119443.	20.2	90
9	Efficient photocatalytic H ₂ evolution, CO ₂ reduction and N ₂ fixation coupled with organic synthesis by cocatalyst and vacancies engineering. <i>Applied Catalysis B: Environmental</i> , 2021, 285, 119789.	20.2	120
10	Construction of NiP _x /MoS ₂ /NiS/CdS composite to promote photocatalytic H ₂ production from glucose solution. <i>Journal of the American Ceramic Society</i> , 2021, 104, 5307-5316.	3.8	17
11	The Hole-Tunneling Heterojunction of Hematite-Based Photoanodes Accelerates Photosynthetic Reaction. <i>Angewandte Chemie - International Edition</i> , 2021, 60, 16009-16018.	13.8	37
12	The Hole-Tunneling Heterojunction of Hematite-Based Photoanodes Accelerates Photosynthetic Reaction. <i>Angewandte Chemie</i> , 2021, 133, 16145-16154.	2.0	2
13	Coordinating ultra-low content Au modified CdS with coupling selective oxidation and reduction system for improved photoexcited charge utilization. <i>Journal of Catalysis</i> , 2021, 402, 72-82.	6.2	19
14	Efficient photocatalytic H ₂ production coupling with selective oxidation of aromatic alcohol under carbon neutrality. <i>Applied Catalysis B: Environmental</i> , 2021, 298, 120619.	20.2	18
15	Progress in Photocatalytic Synthesis of Benzimidazoles. <i>ChemistrySelect</i> , 2021, 6, 12628-12643.	1.5	4
16	Construction of two-dimensionally relative p-n heterojunction for efficient photocatalytic redox reactions under visible light. <i>Applied Surface Science</i> , 2020, 505, 144638.	6.1	37
17	A Comprehensive Understanding of the Melting Temperature of Nanocrystals: Implications for Catalysis. <i>ACS Applied Nano Materials</i> , 2020, 3, 1583-1591.	5.0	10
18	The morphology and photocatalytic performance of Zn(OH)F under different synthetic conditions. <i>Journal of Fluorine Chemistry</i> , 2020, 237, 109600.	1.7	5

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19	Photocatalytic Performance of NiS/CdS Composite with Multistage Structure. ACS Applied Energy Materials, 2020, 3, 7736-7745.	5.1	48
20	Effect of Zn Vacancies in Zn ₃ In ₂ S ₆ Nanosheets on Boosting Photocatalytic N ₂ Fixation. ACS Applied Energy Materials, 2020, 3, 11275-11284.	5.1	49
21	Ultrasonication-Assisted Synthesis of ZnxCd _{1-x} S for Enhanced Visible-Light Photocatalytic Activity. Catalysts, 2020, 10, 276.	3.5	9
22	One-step synthesis of 2D/2D-3D NiS/Zn ₃ In ₂ S ₆ hierarchical structure toward solar-to-chemical energy transformation of biomass-relevant alcohols. Applied Catalysis B: Environmental, 2020, 266, 118617.	20.2	115
23	A new phosphidation route for the synthesis of NiP and their cocatalytic performances for photocatalytic hydrogen evolution over g-C ₃ N ₄ . Journal of Energy Chemistry, 2020, 48, 241-249.	12.9	51
24	Compositional regulation and modification of the host CdS for efficient photocatalytic hydrogen production: Case study on MoS ₂ decorated Co _{0.2} Cd _{0.8} S nanorods. Chemical Engineering Journal, 2019, 378, 122139.	12.7	33
25	Theoretical study on the DNA interaction properties of copper(II) complexes. Computational Biology and Chemistry, 2019, 80, 244-248.	2.3	4
26	Hydrogenation of Cinnamaldehyde to Hydrocinnamyl Alcohol on Pt/Graphite Catalyst. ChemistrySelect, 2019, 4, 2018-2023.	1.5	8
27	Visible-Light-Driven H ₂ Evolution with Cobalt Complexes in Aqueous Solution: Theoretical and Experimental Study. Journal of Physical Chemistry C, 2019, 123, 30351-30359.	3.1	8
28	Photocatalytic degradation of benzene over different morphology BiPO ₄ : Revealing the significant contribution of high-energy facets and oxygen vacancies. Applied Catalysis B: Environmental, 2019, 243, 780-789.	20.2	78
29	Rational synthesis of MnxCd _{1-x} S for enhanced photocatalytic H ₂ evolution: Effects of S precursors and the feed ratio of Mn/Cd on its structure and performance. Journal of Colloid and Interface Science, 2019, 535, 469-480.	9.4	80
30	Photocatalytic synthesis of Schiff base compounds in the coupled system of aromatic alcohols and nitrobenzene using Cd _x Zn _{1-x} S photocatalysts. Journal of Catalysis, 2018, 359, 151-160.	6.2	46
31	Photocatalytic organic transformations: Simultaneous oxidation of aromatic alcohols and reduction of nitroarenes on CdLa ₂ S ₄ in one reaction system. Applied Catalysis B: Environmental, 2018, 233, 1-10.	20.2	44
32	Optimizing the precursor of sulfur source for hydrothermal synthesis of high performance CdS for photocatalytic hydrogen production. RSC Advances, 2018, 8, 11489-11497.	3.6	29
33	Theoretical Studies on DNA-Cleavage Mechanism of Copper(II) Complexes: Probing Generation of Reactive Oxygen Species. Journal of Chemical Information and Modeling, 2018, 58, 859-866.	5.4	14
34	Simultaneous dehydrogenation and hydrogenolysis of aromatic alcohols in one reaction system via visible-light-driven heterogeneous photocatalysis. Journal of Catalysis, 2018, 357, 247-256.	6.2	91
35	Laser bonding of glass and glass with constant temperature output. , 2018, , .		1
36	Insight into the Transfer Mechanism of Photogenerated Carriers for WO ₃ /TiO ₂ Heterojunction Photocatalysts: Is It the Transfer of Band or Z-Scheme? Why?. Journal of Physical Chemistry C, 2018, 122, 26326-26336.	3.1	88

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37	Effective use of photogenerated electrons and holes in a system: Photocatalytic selective oxidation of aromatic alcohols to aldehydes and hydrogen production. <i>Journal of Catalysis</i> , 2018, 367, 159-170.	6.2	102
38	Insight into the Transfer Mechanisms of Photogenerated Carriers for Heterojunction Photocatalysts with the Analogous Positions of Valence Band and Conduction Band: A Case Study of ZnO/TiO ₂ . <i>Journal of Physical Chemistry C</i> , 2018, 122, 15409-15420.	3.1	84
39	Ultra-low content of Pt modified CdS nanorods: Preparation, characterization, and application for photocatalytic selective oxidation of aromatic alcohols and reduction of nitroarenes in one reaction system. <i>Journal of Hazardous Materials</i> , 2018, 360, 182-192.	12.4	45
40	Chalcogenide photocatalysts for selective oxidation of aromatic alcohols to aldehydes using O ₂ and visible light: A case study of CdIn ₂ S ₄ , CdS and In ₂ S ₃ . <i>Chemical Engineering Journal</i> , 2018, 348, 966-977.	12.7	79
41	Noble metal-free 0D ^{1D} NiS _x /CdS nanocomposites toward highly efficient photocatalytic contamination removal and hydrogen evolution under visible light. <i>Dalton Transactions</i> , 2018, 47, 12671-12683.	3.3	53
42	One-pot hydrothermal synthesis of highly efficient SnO _x /Zn ₂ SnO ₄ composite photocatalyst for the degradation of methyl orange and gaseous benzene. <i>Applied Catalysis B: Environmental</i> , 2017, 200, 19-30.	20.2	112
43	Amino acid-assisted synthesis of In ₂ S ₃ hierarchical architectures for selective oxidation of aromatic alcohols to aromatic aldehydes. <i>RSC Advances</i> , 2017, 7, 6457-6466.	3.6	22
44	Controlled synthesis of Sn-based oxides via a hydrothermal method and their visible light photocatalytic performances. <i>RSC Advances</i> , 2017, 7, 27024-27032.	3.6	65
45	Solvothermal synthesis of CdIn ₂ S ₄ photocatalyst for selective photosynthesis of organic aromatic compounds under visible light. <i>Scientific Reports</i> , 2017, 7, 27.	3.3	72
46	Metastable scheelite CdWO ₄ :Eu ³⁺ nanophosphors: Solvothermal synthesis, phase transitions and their polymorph-dependent luminescence properties. <i>Dyes and Pigments</i> , 2017, 147, 283-290.	3.7	25
47	Remarkable enhancement of photocatalytic performance via constructing a novel Z-scheme KNbO ₃ /Bi ₂ O ₃ hybrid material. <i>Materials Research Bulletin</i> , 2017, 94, 352-360.	5.2	35
48	Synergistic effect of photocatalysis and thermocatalysis for selective oxidation of aromatic alcohols to aromatic aldehydes using Zn ₃ In ₂ S ₆ @ZnO composite. <i>Applied Catalysis B: Environmental</i> , 2017, 218, 420-429.	20.2	90
49	In situ photodeposition of MoS _x on CdS nanorods as a highly efficient cocatalyst for photocatalytic hydrogen production. <i>Journal of Materials Chemistry A</i> , 2017, 5, 15287-15293.	10.3	93
50	A Novel CdS/g-C ₃ N ₄ Composite Photocatalyst: Preparation, Characterization and Photocatalytic Performance with Different Reaction Solvents under Visible Light Irradiation. <i>Chinese Journal of Chemistry</i> , 2017, 35, 217-225.	4.9	25
51	One-Pot Solid-State Reaction Approach to Synthesize Ag-Cu ₂ O/GO Ternary Nanocomposites with Enhanced Visible-Light-Responsive Photocatalytic Activity. <i>International Journal of Photoenergy</i> , 2017, 2017, 1-8.	2.5	7
52	Crystal phase-controlled synthesis of BiPO ₄ and the effect of phase structure on the photocatalytic degradation of gaseous benzene. <i>Chemical Engineering Journal</i> , 2017, 330, 433-441.	12.7	46
53	Effect of different solvent on the photocatalytic activity of ZnIn ₂ S ₄ for selective oxidation of aromatic alcohols to aromatic aldehydes under visible light irradiation. <i>Applied Surface Science</i> , 2016, 384, 161-174.	6.1	90
54	Colored TiO ₂ hollow spheres for efficient water-splitting photocatalysts. <i>RSC Advances</i> , 2016, 6, 108969-108973.	3.6	8

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55	Efficient utilization of photogenerated electrons and holes for photocatalytic selective organic syntheses in one reaction system using a narrow band gap CdS photocatalyst. <i>Green Chemistry</i> , 2016, 18, 3628-3639.	9.0	101
56	Trace Amount of SnO ₂ -Decorated ZnSn(OH) ₆ as Highly Efficient Photocatalyst for Decomposition of Gaseous Benzene: Synthesis, Photocatalytic Activity, and the Unrevealed Synergistic Effect between ZnSn(OH) ₆ and SnO ₂ . <i>ACS Catalysis</i> , 2016, 6, 957-968.	11.2	74
57	Selective oxidation of aromatic alcohols to aromatic aldehydes by BN/metal sulfide with enhanced photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2016, 182, 356-368.	20.2	144
58	Hydrothermal synthesis of M ₂ Sn(OH) ₆ (M = Co, Cu, Fe, Mg, Mn, Zn) and their photocatalytic activity for the destruction of gaseous benzene. <i>Chemical Engineering Journal</i> , 2015, 269, 168-179.	12.7	45
59	What is the transfer mechanism of photogenerated carriers for the nanocomposite photocatalyst Ag ₃ PO ₄ /g-C ₃ N ₄ , band transfer or a direct Z-scheme?. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 11577-11585.	2.8	155
60	Ultra-low content of Pt modified CdS nanorods: one-pot synthesis and high photocatalytic activity for H ₂ production under visible light. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23732-23742.	10.3	137
61	Integrating photonic bandgaps with surface plasmon resonance for the enhancement of visible-light photocatalytic performance. <i>Journal of Materials Chemistry A</i> , 2015, 3, 23501-23511.	10.3	51
62	Photocatalytic reforming of glycerol for H ₂ evolution on Pt/TiO ₂ : fundamental understanding the effect of co-catalyst Pt and the Pt deposition route. <i>Journal of Materials Chemistry A</i> , 2015, 3, 2271-2282.	10.3	129
63	Fabrication and characterization of novel Z-scheme photocatalyst WO ₃ /g-C ₃ N ₄ with high efficient visible light photocatalytic activity. <i>Materials Chemistry and Physics</i> , 2015, 149-150, 512-521.	4.0	86
64	Fabrication of hydrophilic S/In ₂ O ₃ core-shell nanocomposite for enhancement of photocatalytic performance under visible light irradiation. <i>Applied Surface Science</i> , 2015, 324, 188-197.	6.1	31
65	Coupled systems for selective oxidation of aromatic alcohols to aldehydes and reduction of nitrobenzene into aniline using CdS/g-C ₃ N ₄ photocatalyst under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2014, 158-159, 382-390.	20.2	255
66	Study on the separation mechanisms of photogenerated electrons and holes for composite photocatalysts g-C ₃ N ₄ -WO ₃ . <i>Applied Catalysis B: Environmental</i> , 2014, 150-151, 564-573.	20.2	572
67	Selective oxidation of aromatic alcohols to corresponding aromatic aldehydes using In ₂ S ₃ microsphere catalyst under visible light irradiation. <i>Chemical Engineering Journal</i> , 2014, 245, 107-116.	12.7	71
68	Preparation and characterization of direct Z-scheme photocatalyst Bi ₂ O ₃ /NaNbO ₃ and its reaction mechanism. <i>Applied Surface Science</i> , 2014, 292, 357-366.	6.1	119
69	Sodium titanate nanowires as a stable and easily handled precursor for the shape controlled synthesis of TiO ₂ and their photocatalytic performance. <i>CrystEngComm</i> , 2014, 16, 616-626.	2.6	8
70	Design of a direct Z-scheme photocatalyst: Preparation and characterization of Bi ₂ O ₃ /g-C ₃ N ₄ with high visible light activity. <i>Journal of Hazardous Materials</i> , 2014, 280, 713-722.	12.4	344
71	Effects of preparation method on the microstructure and photocatalytic performance of ZnSn(OH) ₆ . <i>Applied Catalysis B: Environmental</i> , 2014, 148-149, 532-542.	20.2	64
72	Fabrication, characterization and mechanism of a novel Z-scheme photocatalyst NaNbO ₃ /WO ₃ with enhanced photocatalytic activity. <i>Dalton Transactions</i> , 2013, 42, 10759.	3.3	132

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73	The role of ball milled h-BN in the enhanced photocatalytic activity: A study based on the model of ZnO. <i>Applied Surface Science</i> , 2013, 280, 828-835.	6.1	60
74	The preparation and characterization of composite bismuth tungsten oxide with enhanced visible light photocatalytic activity. <i>CrystEngComm</i> , 2013, 15, 7943.	2.6	31
75	Ball milled h-BN: An efficient holes transfer promoter to enhance the photocatalytic performance of TiO ₂ . <i>Journal of Hazardous Materials</i> , 2013, 244-245, 102-110.	12.4	116
76	Mo ^W based copper oxides: Preparation, characterizations, and photocatalytic reduction of nitrobenzene. <i>Materials Chemistry and Physics</i> , 2013, 141, 719-726.	4.0	16
77	Synthesis of novel morphology-controlled Bi(OH)CrO ₄ with high visible light photocatalytic activity. <i>Materials Research Bulletin</i> , 2013, 48, 3292-3297.	5.2	3
78	Significantly enhanced visible-light photocatalytic activity of g-C ₃ N ₄ via ZnO modification and the mechanism study. <i>Journal of Molecular Catalysis A</i> , 2013, 368-369, 9-15.	4.8	162
79	Preparation, characterization, and photocatalytic performance of Ce ₂ S ₃ for nitrobenzene reduction. <i>Applied Surface Science</i> , 2013, 275, 335-341.	6.1	31
80	Ag ₃ PO ₄ /ZnO: An efficient visible-light-sensitized composite with its application in photocatalytic degradation of Rhodamine B. <i>Materials Research Bulletin</i> , 2013, 48, 106-113.	5.2	157
81	Preparation, characterization and photocatalytic activity evaluation of NaBiO ₃ ·2H ₂ O and NaBiO ₃ ·xH ₂ O nanosheets. <i>Materials Chemistry and Physics</i> , 2013, 142, 748-755.	4.0	20
82	One-Pot Synthesis of ZnO₂/ZnO Composite with Enhanced Photocatalytic Performance for Organic Dye Removal. <i>Journal of Nanoscience and Nanotechnology</i> , 2013, 13, 657-665.	0.9	9
83	In situ preparation of novel p-n junction photocatalyst BiOI/(BiO) ₂ CO ₃ with enhanced visible light photocatalytic activity. <i>Journal of Hazardous Materials</i> , 2012, 239-240, 316-324.	12.4	204
84	V ₂ O ₅ /Al ₂ O ₃ composite photocatalyst: Preparation, characterization, and the role of Al ₂ O ₃ . <i>Chemical Engineering Journal</i> , 2012, 180, 170-177.	12.7	95
85	Effect of oxygen mobility in the lattice of Au/TiO ₂ on formaldehyde oxidation. <i>Kinetics and Catalysis</i> , 2012, 53, 239-246.	1.0	26
86	Electronic structure and optical properties of Ag ₃ PO ₄ photocatalyst calculated by hybrid density functional method. <i>Applied Physics Letters</i> , 2011, 99, .	3.3	191
87	Photocatalytic destruction of air pollutants with vacuum ultraviolet (VUV) irradiation. <i>Catalysis Today</i> , 2011, 175, 310-315.	4.4	59
88	Photocatalytic reforming of C ₃ -polyols for H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 681-688.	20.2	53
89	Photocatalytic reforming of ethanol to H ₂ and CH ₄ over ZnSn(OH) ₆ nanocubes. <i>International Journal of Hydrogen Energy</i> , 2011, 36, 1524-1530.	7.1	30
90	Photocatalytic reforming of C ₃ -polyols for H ₂ production. <i>Applied Catalysis B: Environmental</i> , 2011, 106, 689-696.	20.2	45

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91	Hydrogen Production over Titania-Based Photocatalysts. <i>ChemSusChem</i> , 2010, 3, 681-694.	6.8	404
92	H ₂ –O ₂ promoting effect on photocatalytic degradation of organic pollutants in an aqueous solution without an external H ₂ supply. <i>Applied Catalysis A: General</i> , 2010, 380, 178-184.	4.3	8
93	Photocatalytic performance of tetragonal and cubic In_2S_3 for the water splitting under visible light irradiation. <i>Applied Catalysis B: Environmental</i> , 2010, 95, 393-399.	20.2	175
94	Photocatalytic reforming of glucose over La doped alkali tantalate photocatalysts for H ₂ production. <i>Catalysis Communications</i> , 2010, 12, 184-187.	3.3	53
95	Hydrothermal synthesis, characterization, and photocatalytic properties of Zn ₂ SnO ₄ . <i>Journal of Solid State Chemistry</i> , 2009, 182, 517-524.	2.9	108
96	Hydroxide ZnSn(OH) ₆ : A promising new photocatalyst for benzene degradation. <i>Applied Catalysis B: Environmental</i> , 2009, 91, 67-72.	20.2	122
97	Urea-based hydrothermal growth, optical and photocatalytic properties of single-crystalline In(OH) ₃ nanocubes. <i>Journal of Colloid and Interface Science</i> , 2008, 325, 425-431.	9.4	75
98	Photocatalytic reforming of biomass: A systematic study of hydrogen evolution from glucose solution. <i>International Journal of Hydrogen Energy</i> , 2008, 33, 6484-6491.	7.1	301
99	Pt/Coupled with Water-Splitting Catalyst for Organic Pollutant Photodegradation: Insight into the Primary Reaction Mechanism. <i>Research Letters in Physical Chemistry</i> , 2008, 2008, 1-5.	0.3	1