

Shifu Chen

List of Publications by Year in descending order

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85
papers

5,285
citations

76196

40
h-index

85405

71
g-index

85
all docs

85
docs citations

85
times ranked

5366
citing authors

#	ARTICLE	IF	CITATIONS
1	Study on the separation mechanisms of photogenerated electrons and holes for composite photocatalysts g-C ₃ N ₄ -WO ₃ . Applied Catalysis B: Environmental, 2014, 150-151, 564-573.	10.8	572
2	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. Journal of Hazardous Materials, 2014, 280, 713-722.	6.5	344
3	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. Applied Catalysis B: Environmental, 2014, 158-159, 382-390.	10.8	255
4	Transforming type-I to type-II heterostructure photocatalyst via energy band engineering: A case study of I-BiOCl/I-BiOBr. Applied Catalysis B: Environmental, 2017, 204, 505-514.	10.8	208
5	In situ preparation of novel p-n junction photocatalyst BiOI/(BiO) ₂ CO ₃ with enhanced visible light photocatalytic activity. Journal of Hazardous Materials, 2012, 239-240, 316-324.	6.5	204
6	Selective oxidation of aromatic alcohols to aromatic aldehydes by BN/metal sulfide with enhanced photocatalytic activity. Applied Catalysis B: Environmental, 2016, 182, 356-368.	10.8	144
7	Ultra-low content of Pt modified CdS nanorods: one-pot synthesis and high photocatalytic activity for H ₂ production under visible light. Journal of Materials Chemistry A, 2015, 3, 23732-23742.	5.2	137
8	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. Journal of Materials Chemistry A, 2015, 3, 2271-2282.	5.2	129
9	Efficient photocatalytic H ₂ evolution, CO ₂ reduction and N ₂ fixation coupled with organic synthesis by cocatalyst and vacancies engineering. Applied Catalysis B: Environmental, 2021, 285, 119789.	10.8	120
10	Preparation and characterization of direct Z-scheme photocatalyst Bi ₂ O ₃ /NaNbO ₃ and its reaction mechanism. Applied Surface Science, 2014, 292, 357-366.	3.1	119
11	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.	10.8	115
12	One-pot hydrothermal synthesis of highly efficient SnO _x /Zn ₂ SnO ₄ composite photocatalyst for the degradation of methyl orange and gaseous benzene. Applied Catalysis B: Environmental, 2017, 200, 19-30.	10.8	112
13	Effective use of photogenerated electrons and holes in a system: Photocatalytic selective oxidation of aromatic alcohols to aldehydes and hydrogen production. Journal of Catalysis, 2018, 367, 159-170.	3.1	102
14	Efficient utilization of photogenerated electrons and holes for photocatalytic selective organic syntheses in one reaction system using a narrow band gap CdS photocatalyst. Green Chemistry, 2016, 18, 3628-3639.	4.6	101
15	Perspective on construction of heterojunction photocatalysts and the complete utilization of photogenerated charge carriers. Applied Surface Science, 2019, 476, 982-992.	3.1	101
16	Efficient utilization of photogenerated electrons and holes for photocatalytic redox reactions using visible light-driven Au/ZnIn ₂ S ₄ hybrid. Journal of Hazardous Materials, 2019, 367, 277-285.	6.5	97
17	One-pot hydrothermal synthesis of BiPO ₄ /BiVO ₄ with enhanced visible-light photocatalytic activities for methylene blue degradation. RSC Advances, 2014, 4, 10968.	1.7	94
18	In situ photodeposition of MoS _x on CdS nanorods as a highly efficient cocatalyst for photocatalytic hydrogen production. Journal of Materials Chemistry A, 2017, 5, 15287-15293.	5.2	93

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19	Simultaneous dehydrogenation and hydrogenolysis of aromatic alcohols in one reaction system via visible-light-driven heterogeneous photocatalysis. <i>Journal of Catalysis</i> , 2018, 357, 247-256.	3.1	91
20	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.	3.1	90
21	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.	10.8	90
22	Insight into the Transfer Mechanism of Photogenerated Carriers for WO ₃ /TiO ₂ Heterojunction Photocatalysts: Is It the Transfer of Band-Band or Z-Scheme? Why?. <i>Journal of Physical Chemistry C</i> , 2018, 122, 26326-26336.	1.5	88
23	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.	1.5	84
24	Rational synthesis of Mn _x Cd _{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. <i>Journal of Colloid and Interface Science</i> , 2019, 535, 469-480.	5.0	80
25	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.	6.6	79
26	Photocatalytic degradation of benzene over different morphology BiPO ₄ : Revealing the significant contribution of high-energy facets and oxygen vacancies. <i>Applied Catalysis B: Environmental</i> , 2019, 243, 780-789.	10.8	78
27	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.	5.5	74
28	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.	1.6	72
29	Controlled synthesis of Sn-based oxides via a hydrothermal method and their visible light photocatalytic performances. <i>RSC Advances</i> , 2017, 7, 27024-27032.	1.7	65
30	Self-Assembly of CdS/CdIn ₂ S ₄ Heterostructure with Enhanced Photocascade Synthesis of Schiff Base Compounds in an Aromatic Alcohols and Nitrobenzene System with Visible Light. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 46735-46745.	4.0	62
31	Constructing a system for effective utilization of photogenerated electrons and holes: Photocatalytic selective transformation of aromatic alcohols to aromatic aldehydes and hydrogen evolution over Zn ₃ In ₂ S ₆ photocatalysts. <i>Applied Catalysis B: Environmental</i> , 2019, 242, 302-311.	10.8	61
32	Noble metal-free 1D Ni _x /CdS nanocomposites toward highly efficient photocatalytic contamination removal and hydrogen evolution under visible light. <i>Dalton Transactions</i> , 2018, 47, 12671-12683.	1.6	53
33	A new phosphidation route for the synthesis of NiP and their cocatalytic performances for photocatalytic hydrogen evolution over g-C ₃ N ₄ . <i>Journal of Energy Chemistry</i> , 2020, 48, 241-249.	7.1	51
34	Effect of Zn Vacancies in Zn ₃ In ₂ S ₆ Nanosheets on Boosting Photocatalytic N ₂ Fixation. <i>ACS Applied Energy Materials</i> , 2020, 3, 11275-11284.	2.5	49
35	Photocatalytic Performance of NiS/CdS Composite with Multistage Structure. <i>ACS Applied Energy Materials</i> , 2020, 3, 7736-7745.	2.5	48
36	Construction of novel S/CdS type II heterojunction for photocatalytic H ₂ production under visible light: The intrinsic positive role of elementary S. <i>Chemical Engineering Journal</i> , 2017, 321, 484-494.	6.6	47

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37	Photocatalytic synthesis of Schiff base compounds in the coupled system of aromatic alcohols and nitrobenzene using CdXZn1 ⁿ XS photocatalysts. <i>Journal of Catalysis</i> , 2018, 359, 151-160.	3.1	46
38	What Is the Transfer Mechanism of Photoexcited Charge Carriers for g-C ₃ N ₄ /TiO ₂ Heterojunction Photocatalysts? Verification of the Relative p-n Junction Theory. <i>Journal of Physical Chemistry C</i> , 2020, 124, 8561-8575.	1.5	46
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.	6.5	45
40	Photocatalytic organic transformations: Simultaneous oxidation of aromatic alcohols and reduction of nitroarenes on CdLa ₂ S ₄ in one reaction system. <i>Applied Catalysis B: Environmental</i> , 2018, 233, 1-10.	10.8	44
41	Novel S-scheme WO ₃ /RP composite with outstanding overall water splitting activity for H ₂ and O ₂ evolution under visible light. <i>Applied Surface Science</i> , 2021, 558, 149882.	3.1	41
42	Investigation on the Mechanism and Inner Impetus of Photogenerated Charge Transfer in WO ₃ /ZnO Heterojunction Photocatalysts. <i>Journal of Physical Chemistry C</i> , 2020, 124, 27916-27929.	1.5	38
43	Construction of two-dimensionally relative p-n heterojunction for efficient photocatalytic redox reactions under visible light. <i>Applied Surface Science</i> , 2020, 505, 144638.	3.1	37
44	Efficient photocatalytic hydrogen production from formic acid on inexpensive and stable phosphide/Zn ₃ In ₂ S ₆ composite photocatalysts under mild conditions. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 21803-21820.	3.8	36
45	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.	2.7	35
46	Revealing the transfer mechanisms of photogenerated charge carriers over g-C ₃ N ₄ /ZnIn ₂ S ₄ composite: A model study for photocatalytic oxidation of aromatic alcohols with visible light. <i>Journal of Catalysis</i> , 2021, 401, 149-159.	3.1	32
47	The preparation and characterization of composite bismuth tungsten oxide with enhanced visible light photocatalytic activity. <i>CrystEngComm</i> , 2013, 15, 7943.	1.3	31
48	One-pot synthesis of Schiff base compounds via photocatalytic reaction in the coupled system of aromatic alcohols and nitrobenzene using CdIn ₂ S ₄ photocatalyst. <i>Dalton Transactions</i> , 2018, 47, 10915-10924.	1.6	30
49	Visible-light photocatalytic activity and mechanism of novel AgBr/BiOBr prepared by deposition-precipitation. <i>Science Bulletin</i> , 2012, 57, 2901-2907.	1.7	28
50	Tunable photocatalytic and photoelectric properties of I ⁿ -doped BiOBr photocatalyst: dramatic pH effect. <i>RSC Advances</i> , 2016, 6, 15525-15534.	1.7	28
51	Synergistic Effect of Photocatalyst CdS and Thermalcatalyst Cr ₂ O ₃ -Al ₂ O ₃ for Selective Oxidation of Aromatic Alcohols into Corresponding Aldehydes. <i>ACS Applied Materials & Interfaces</i> , 2020, 12, 2531-2538.	4.0	26
52	Synthesis of BiPO ₄ by crystallization and hydroxylation with boosted photocatalytic removal of organic pollutants in air and water. <i>Journal of Hazardous Materials</i> , 2020, 399, 122999.	6.5	26
53	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.	2.6	25
54	Ethylene glycol-assisted synthesis, photoelectrochemical and photocatalytic properties of BiOI microflowers. <i>Science Bulletin</i> , 2014, 59, 3420-3426.	1.7	24

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55	Amino acid-assisted synthesis of In ₂ S ₃ hierarchical architectures for selective oxidation of aromatic alcohols to aromatic aldehydes. RSC Advances, 2017, 7, 6457-6466.	1.7	22
56	Efficient H ₂ evolution on Co ₃ S ₄ /Zn _{0.5} Cd _{0.5} S nanocomposites by photocatalytic synergistic reaction. Inorganic Chemistry Frontiers, 2022, 9, 1943-1955.	3.0	22
57	Sulfur Vacancy-Mediated Electron-Hole Separation at MoS ₂ /CdS Heterojunctions for Boosting Photocatalytic N ₂ Reduction. ACS Applied Energy Materials, 2022, 5, 4475-4485.	2.5	22
58	THE GREEN PHOSPHOR SrAl ₂ O ₄ :Eu ²⁺ , R ³⁺ (R=Y, Dy) AND ITS APPLICATION IN ALTERNATING CURRENT LIGHT-EMITTING DIODES. Functional Materials Letters, 2013, 06, 1350047.	0.7	21
59	Novel I-BiOBr/BiPO ₄ heterostructure: synergetic effects of I ⁺ ion doping and the electron trapping role of wide-band-gap BiPO ₄ nanorods. RSC Advances, 2016, 6, 55755-55763.	1.7	20
60	Novel NiO/RP composite with remarkably enhanced photocatalytic activity for H ₂ evolution from water. International Journal of Hydrogen Energy, 2021, 46, 19363-19372.	3.8	19
61	Coordinating ultra-low content Au modified CdS with coupling selective oxidation and reduction system for improved photoexcited charge utilization. Journal of Catalysis, 2021, 402, 72-82.	3.1	19
62	Efficient photocatalytic H ₂ production coupling with selective oxidation of aromatic alcohol under carbon neutrality. Applied Catalysis B: Environmental, 2021, 298, 120619.	10.8	18
63	Construction of NiP _x /MoS ₂ /NiS/CdS composite to promote photocatalytic H ₂ production from glucose solution. Journal of the American Ceramic Society, 2021, 104, 5307-5316.	1.9	17
64	Fe Doped Ni ₃ S ₂ Nanosheet Arrays for Efficient and Stable Electrocatalytic Overall Urea Splitting. ACS Applied Energy Materials, 2022, 5, 1183-1192.	2.5	17
65	Photocatalytic Reduction of Nitro Compounds Using TiO ₂ Photocatalyst by UV and Vis Dye-sensitized Systems. Chinese Journal of Chemistry, 2011, 29, 399-404.	2.6	16
66	The temperature-sensitive luminescence of (Y,Gd)VO ₄ :Bi ³⁺ ,Eu ³⁺ and its application for stealth anti-counterfeiting. Physica Status Solidi - Rapid Research Letters, 2012, 6, 321-323.	1.2	16
67	The red luminescence of Sr ₄ Al ₁₄ O ₂₅ :Mn ⁴⁺ enhanced by coupling with the SrAl ₂ O ₄ phase in the 3SrO·5Al ₂ O ₃ system. Physica Status Solidi (A) Applications and Materials Science, 2013, 210, 1791-1798.	0.8	16
68	An elemental S/P photocatalyst for hydrogen evolution from water under visible to near-infrared light irradiation. Chemical Communications, 2019, 55, 13160-13163.	2.2	16
69	Fabrication of Z-Scheme WO ₃ /KNbO ₃ Photocatalyst with Enhanced Separation of Charge Carriers. Chemical Research in Chinese Universities, 2020, 36, 901-907.	1.3	14
70	Preparation, characterisation and activity evaluation of CaCO ₃ /ZnO photocatalyst. Journal of Experimental Nanoscience, 2011, 6, 324-336.	1.3	9
71	Unexpected formation of scheelite-structured Ca _{1-x} Cd _x WO ₄ (0 ≤ x ≤ 1) continuous solid solutions with tunable photoluminescent and electronic properties. Physical Chemistry Chemical Physics, 2017, 19, 23204-23212.	1.3	9
72	Sodium titanate nanowires as a stable and easily handled precursor for the shape controlled synthesis of TiO ₂ and their photocatalytic performance. CrystEngComm, 2014, 16, 616-626.	1.3	8

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73	Hydrogenation of Cinnamaldehyde to Hydrocinnamyl Alcohol on Pt/Graphite Catalyst. ChemistrySelect, 2019, 4, 2018-2023.	0.7	8
74	Novel noble-metal free S/Ni ₁₂ P ₅ /Cd _{0.5} Zn _{0.5} S composite with enhanced H ₂ evolution activity under visible light. International Journal of Hydrogen Energy, 2020, 45, 33623-33633.	3.8	7
75	Fabrication of Ag/RP composite with excellent photocatalytic activity for degrading high concentration of methyl orange solution. Materials Letters, 2020, 268, 127612.	1.3	7
76	Photothermal synergy of 1D Cd _{0.9} Zn _{0.1} S and 3D Mn ₃ O ₄ for achieving forcefully active and highly selective aromatic alcohol oxidation. Applied Surface Science, 2022, 579, 151978.	3.1	6
77	Preparation and characterisation of AgIn(WO ₄) ₂ photocatalyst with high photoreduction activity. Journal of Experimental Nanoscience, 2012, 7, 98-108.	1.3	4
78	Wide spectral photocatalytic hydrogen evolution of elemental red phosphorus supported with Au nanoparticles. Catalysis Communications, 2021, 149, 106197.	1.6	4
79	Interaction between CO ₂ Molten Steel Flow and Decarburization Reaction in Rheinstahl [®] Heraeus. Steel Research International, 2021, 92, 210032.	1.0	4
80	Deep Insight into the Pinch Effect in a Tundish with Channel [®] Type Induction Heater. Steel Research International, 2022, 93, .	1.0	4
81	Recent advances in special morphologic photocatalysts for NO _x removal. Frontiers of Environmental Science and Engineering, 2022, 16, 1.	3.3	4
82	Synthesis of novel morphology-controlled Bi(OH)CrO ₄ with high visible light photocatalytic activity. Materials Research Bulletin, 2013, 48, 3292-3297.	2.7	3
83	Inclusion Behavior in a Curved Bloom Continuous Caster with Mold Electromagnetic Stirring. Metals, 2020, 10, 1580.	1.0	3
84	Effect of Nonequilibrium Decarburization on Inclusion Transfer During Single Snorkel RH Vacuum Refining. Jom, 2022, 74, 1578-1587.	0.9	2
85	A NEW RED PHOSPHOR OF THE Mn ACTIVATED NON-STOICHIOMETRIC STRONTIUM ALUMINATE 3SrO ₂ ·5Al ₂ O ₃ FOR HIGH COLOR RENDERING WHITE LEDs. Functional Materials Letters, 2013, 06, 1350028.	0.7	1