

Huinan Che

List of Publications by Year in descending order

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78
papers

5,933
citations

57631

44
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71532

76
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78
all docs

78
docs citations

78
times ranked

4140
citing authors

#	ARTICLE	IF	CITATIONS
1	Construction of high-dispersed Ag/Fe ₃ O ₄ /g-C ₃ N ₄ photocatalyst by selective photo-deposition and improved photocatalytic activity. Applied Catalysis B: Environmental, 2016, 182, 115-122.	10.8	370
2	Z-scheme mesoporous photocatalyst constructed by modification of Sn ₃ O ₄ nanoclusters on g-C ₃ N ₄ nanosheets with improved photocatalytic performance and mechanism insight. Applied Catalysis B: Environmental, 2018, 238, 284-293.	10.8	336
3	Bimetallic synergetic regulating effect on electronic structure in cobalt/vanadium co-doped carbon nitride for boosting photocatalytic performance. Applied Catalysis B: Environmental, 2021, 287, 119954.	10.8	218
4	Fabrication of Z-scheme Bi ₃ O ₄ Cl/g-C ₃ N ₄ 2D/2D heterojunctions with enhanced interfacial charge separation and photocatalytic degradation various organic pollutants activity. Applied Surface Science, 2018, 455, 705-716.	3.1	216
5	Control of energy band, layer structure and vacancy defect of graphitic carbon nitride by intercalated hydrogen bond effect of NO ₃ ⁻ toward improving photocatalytic performance. Chemical Engineering Journal, 2019, 357, 209-219.	6.6	209
6	High-efficient charge separation driven directionally by pyridine rings grafted on carbon nitride edge for boosting photocatalytic hydrogen evolution. Applied Catalysis B: Environmental, 2021, 297, 120433.	10.8	201
7	NGQD active sites as effective collectors of charge carriers for improving the photocatalytic performance of Z-scheme g-C ₃ N ₄ /Bi ₂ WO ₆ heterojunctions. Catalysis Science and Technology, 2018, 8, 622-631.	2.1	188
8	Construction of morphology-controlled nonmetal 2D/3D homojunction towards enhancing photocatalytic activity and mechanism insight. Applied Catalysis B: Environmental, 2020, 263, 118270.	10.8	182
9	Improved recyclability and selectivity of environment-friendly MFA-based heterojunction imprinted photocatalyst for secondary pollution free tetracycline orientation degradation. Chemical Engineering Journal, 2019, 360, 1262-1276.	6.6	169
10	Nitrogen doped carbon ribbons modified g-C ₃ N ₄ for markedly enhanced photocatalytic H ₂ -production in visible to near-infrared region. Chemical Engineering Journal, 2020, 382, 122870.	6.6	169
11	Fabrication of a ternary plasmonic photocatalyst CQDs/Ag/Ag ₂ O to harness charge flow for photocatalytic elimination of pollutants. Applied Catalysis B: Environmental, 2016, 192, 134-144.	10.8	155
12	Insight into the Activity and Stability of Rh ₃ P Nano-Species Supported on g-C ₃ N ₄ for Photocatalytic H ₂ Production. ACS Catalysis, 2020, 10, 458-462.	5.5	154
13	Recent research progress of bimetallic phosphides-based nanomaterials as cocatalyst for photocatalytic hydrogen evolution. Chinese Chemical Letters, 2022, 33, 1141-1153.	4.8	149
14	Magnetic functional heterojunction reactors with 3D specific recognition for selective photocatalysis and synergistic photodegradation in binary antibiotic solutions. Journal of Materials Chemistry A, 2019, 7, 13986-14000.	5.2	140
15	Metal-free Z-scheme 2D/2D vdW heterojunction for high-efficiency and durable photocatalytic H ₂ production. Chemical Engineering Journal, 2020, 395, 125150.	6.6	139
16	A novel Z-Scheme CdS/Bi ₃ O ₄ Cl heterostructure for photocatalytic degradation of antibiotics: Mineralization activity, degradation pathways and mechanism insight. Journal of the Taiwan Institute of Chemical Engineers, 2018, 91, 224-234.	2.7	114
17	Mesoporous ferrihydrous oxide nanoreactors modified on graphitic carbon nitride towards improvement of physical, photoelectrochemical properties and photocatalytic performance. Journal of Colloid and Interface Science, 2018, 531, 331-342.	5.0	113
18	Selective reduction of Cu ²⁺ with simultaneous degradation of tetracycline by the dual channels ion imprinted POPD-CoFe ₂ O ₄ heterojunction photocatalyst. Chemical Engineering Journal, 2019, 360, 750-761.	6.6	113

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19	Development of magnetic imprinted PEDOT/CdS heterojunction photocatalytic nanoreactors: 3-Dimensional specific recognition for selectively photocatalyzing danofloxacin mesylate. <i>Applied Catalysis B: Environmental</i> , 2020, 268, 118433.	10.8	113
20	Intercalation Effect of Attapulgite in g-C ₃ N ₄ Modified with Fe ₃ O ₄ Quantum Dots To Enhance Photocatalytic Activity for Removing 2-Mercaptobenzothiazole under Visible Light. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 10614-10623.	3.2	109
21	Facile fabrication of g-C ₃ N ₄ QDs/BiVO ₄ Z-scheme heterojunction towards enhancing photodegradation activity under visible light. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2019, 95, 669-681.	2.7	104
22	Enhanced Recyclability, Stability, and Selectivity of CdS/C@Fe ₃ O ₄ Nanoreactors for Orientation Photodegradation of Ciprofloxacin. <i>Chemistry - A European Journal</i> , 2015, 21, 18528-18533.	1.7	100
23	Anti-fouling and thermosensitive ion-imprinted nanocomposite membranes based on grapheme oxide and silicon dioxide for selectively separating europium ions. <i>Journal of Hazardous Materials</i> , 2018, 353, 244-253.	6.5	97
24	Construction of a Z-scheme MoS ₂ /CaTiO ₃ heterostructure by the morphology-controlled strategy towards enhancing photocatalytic activity. <i>Chemical Engineering Journal</i> , 2020, 399, 125721.	6.6	95
25	Confinement of ultrasmall CoFe ₂ O ₄ nanoparticles in hierarchical ZnIn ₂ S ₄ microspheres with enhanced interfacial charge separation for photocatalytic H ₂ evolution. <i>Journal of Colloid and Interface Science</i> , 2021, 581, 764-773.	5.0	95
26	Bimetallic Au/Ag decorated TiO ₂ nanocomposite membrane for enhanced photocatalytic degradation of tetracycline and bactericidal efficiency. <i>Applied Surface Science</i> , 2019, 487, 1008-1017.	3.1	94
27	Insight into photocatalytic activity, universality and mechanism of copper/chlorine surface dual-doped graphitic carbon nitride for degrading various organic pollutants in water. <i>Journal of Colloid and Interface Science</i> , 2019, 538, 462-473.	5.0	80
28	Specific oriented recognition of a new stable ICTX@Mfa with retrievability for selective photocatalytic degrading of ciprofloxacin. <i>Catalysis Science and Technology</i> , 2016, 6, 1367-1377.	2.1	79
29	Stability, durability and regeneration ability of a novel Ag-based photocatalyst, Ag ₂ Nb ₄ O ₁₁ . <i>Chemical Communications</i> , 2014, 50, 6596-6599.	2.2	73
30	Yeast-derived carbon sphere as a bridge of charge carriers towards to enhanced photocatalytic activity of 2D/2D Cu ₂ WS ₄ /g-C ₃ N ₄ heterojunction. <i>Journal of Colloid and Interface Science</i> , 2019, 546, 262-275.	5.0	70
31	A visible-light-driven Z-scheme CdS/Bi ₁₂ GeO ₂₀ heterostructure with enhanced photocatalytic degradation of various organics and the reduction of aqueous Cr(VI). <i>Journal of Colloid and Interface Science</i> , 2019, 543, 317-327.	5.0	67
32	Highly-effective photocatalytic properties and interfacial transfer efficiencies of charge carriers for the novel Ag ₂ CO ₃ /AgX heterojunctions achieved by surface modification. <i>Dalton Transactions</i> , 2014, 43, 7282-7289.	1.6	66
33	A novel hollow capsule-like recyclable functional ZnO/C/Fe ₃ O ₄ endowed with three-dimensional oriented recognition ability for selectively photodegrading danofloxacin mesylate. <i>Catalysis Science and Technology</i> , 2016, 6, 6513-6524.	2.1	65
34	Visible-light-driven Ag/Bi ₃ O ₄ Cl nanocomposite photocatalyst with enhanced photocatalytic activity for degradation of tetracycline. <i>RSC Advances</i> , 2018, 8, 37200-37207.	1.7	65
35	Synergistic effect triggered by skeleton delocalization and edge induction of carbon nitride expedites photocatalytic hydrogen evolution. <i>Chemical Engineering Journal</i> , 2022, 442, 136190.	6.6	65
36	An advanced Ag-based photocatalyst Ag ₂ Ta ₄ O ₁₁ with outstanding activity, durability and universality for removing organic dyes. <i>Physical Chemistry Chemical Physics</i> , 2014, 16, 23915-23921.	1.3	59

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37	Facile fabrication of Ag ₂ O/Bi ₂ GeO ₂ O heterostructure with enhanced visible-light photocatalytic activity for the degradation of various antibiotics. <i>Journal of Alloys and Compounds</i> , 2019, 773, 1089-1098.	2.8	56
38	In-situ fabrication of Z-scheme Bi ₃ O ₄ Cl/Bi ₂ O ₁₇ Cl ₂ heterostructure by facile pH control strategy to boost removal of various pollutants in water. <i>Chemical Engineering Journal</i> , 2020, 388, 123483.	6.6	56
39	Synergetic effect of carbon sphere derived from yeast with magnetism and cobalt oxide nanochains towards improving photodegradation activity for various pollutants. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 137-147.	10.8	53
40	Enhanced light utilization efficiency and fast charge transfer for excellent CO ₂ photoreduction activity by constructing defect structures in carbon nitride. <i>Journal of Colloid and Interface Science</i> , 2020, 578, 574-583.	5.0	53
41	Fabrication of Co(Ni)-P surface bonding states on core-shell Co(OH) ₂ @P-NiCo-LDH towards electrocatalytic hydrogen evolution reaction. <i>Journal of Colloid and Interface Science</i> , 2021, 582, 535-542.	5.0	53
42	Construction of ion imprinted layer modified ZnFe ₂ O ₄ for selective Cr(VI) reduction with simultaneous organic pollutants degradation based on different reaction channels. <i>Applied Surface Science</i> , 2019, 483, 453-462.	3.1	48
43	The highly improved visible light photocatalytic activity of BiOI through fabricating a novel n heterojunction BiOI/WO ₃ nanocomposite. <i>CrystEngComm</i> , 2016, 18, 1790-1799.	1.3	45
44	Magnetic Hierarchical Photocatalytic Nanoreactors: Toward Highly Selective Cd ²⁺ Removal with Secondary Pollution Free Tetracycline Degradation. <i>ACS Applied Nano Materials</i> , 2019, 2, 1664-1674.	2.4	45
45	Mesoporous 3D/2D NiCoP/g-C ₃ N ₄ Heterostructure with Dual Co-N and Ni-N Bonding States for Boosting Photocatalytic H ₂ Production Activity and Stability. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 12934-12943.	3.2	45
46	Microwave-hydrothermal synthesis of a novel, recyclable and stable photocatalytic nanoreactor for recognition and degradation of tetracycline. <i>Catalysis Science and Technology</i> , 2017, 7, 4092-4104.	2.1	41
47	0D/2D heterojunction constructed by high-dispersity Mo-doped Ni ₂ P nanodots supported on g-C ₃ N ₄ nanosheets towards enhanced photocatalytic H ₂ evolution activity. <i>International Journal of Hydrogen Energy</i> , 2020, 45, 22556-22566.	3.8	39
48	Precursor-reforming strategy induced g-C ₃ N ₄ microtubes with spatial anisotropic charge separation established by conquering hydrogen bond for enhanced photocatalytic H ₂ -production performance. <i>Journal of Colloid and Interface Science</i> , 2019, 547, 224-233.	5.0	37
49	Band structure engineering and efficient injection rich- $\dot{\epsilon}$ -electrons into ultrathin g-C ₃ N ₄ for boosting photocatalytic H ₂ -production. <i>Applied Surface Science</i> , 2020, 505, 144564.	3.1	35
50	Construction and enhanced photocatalytic activities of a hydrogenated TiO ₂ nanobelt coated with CDs/MoS ₂ nanosheets. <i>RSC Advances</i> , 2017, 7, 8429-8442.	1.7	34
51	Multi-shelled hollow cube CaTiO ₃ decorated with Bi ₂ O ₁₇ Cl ₂ towards enhancing photocatalytic performance under the visible light. <i>Journal of Colloid and Interface Science</i> , 2020, 576, 21-33.	5.0	32
52	Enhanced photocatalytic performance and stability of visible-light-driven Z-scheme CdS/Ag/g-C ₃ N ₄ nanosheets photocatalyst. <i>New Journal of Chemistry</i> , 2018, 42, 12437-12448.	1.4	31
53	Fabrication of HRP/Bi ₂ WO ₆ photoenzyme-coupled artificial catalytic system for efficiently degrading bisphenol A. <i>Chinese Chemical Letters</i> , 2021, 32, 2047-2051.	4.8	31
54	A New Graphitic Carbon Nitride/Horseradish Peroxidase Hybrid Nano-Bio Artificial Catalytic System for Unselective Degradation of Persistent Phenolic Pollutants. <i>Advanced Materials Interfaces</i> , 2018, 5, 1801297.	1.9	30

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55	Limbic Inducted and Delocalized Effects of Diazole in Carbon Nitride Skeleton for Propelling Photocatalytic Hydrogen Evolution. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 56273-56284.	4.0	29
56	Facile synthesis of BiOI/CdWO ₄ p-n junctions: enhanced photocatalytic activities and photoelectrochemistry. <i>RSC Advances</i> , 2016, 6, 38290-38299.	1.7	26
57	A two step hydrothermal process to prepare carbon spheres from bamboo for construction of core-shell non-metallic photocatalysts. <i>New Journal of Chemistry</i> , 2018, 42, 6515-6524.	1.4	22
58	Iodine ion doped bromo bismuth oxide modified bismuth germanate: A direct Z-scheme photocatalyst with enhanced visible-light photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2019, 553, 186-196.	5.0	22
59	One-dimensional Bi ₂ O ₃ QD-decorated BiVO ₄ nanofibers: electrospinning synthesis, phase separation mechanism and enhanced photocatalytic performance. <i>RSC Advances</i> , 2015, 5, 3767-3773.	1.7	20
60	Facile nitrogen and sulfur deficient engineering on sulfur doped g-C ₃ N ₄ for efficiently photocatalytic H ₂ evolution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020, 117, 93-102.	2.7	20
61	A thin empty-shell bismuth tungstate hierarchical structure constructed by the acid sculpture effect with improved visible-light photocatalytic activity. <i>New Journal of Chemistry</i> , 2015, 39, 4384-4390.	1.4	17
62	Doping effect of metalloid group in graphitic carbon nitride molecular structure for significantly improved photocatalytic hydrogen production and photoelectric performance. <i>Renewable Energy</i> , 2020, 157, 660-669.	4.3	17
63	Nickel supported on Nitrogen-doped biomass carbon fiber fabricated via in-situ template technology for pH-universal electrocatalytic hydrogen evolution. <i>Journal of Colloid and Interface Science</i> , 2022, 608, 1441-1448.	5.0	17
64	Whole-Visible-Light Absorption of a Mixed-Valence Silver Vanadate Semiconductor Stemming from an Assistant Effect of d-d Transition. <i>Inorganic Chemistry</i> , 2015, 54, 11826-11830.	1.9	15
65	Enhanced selectivity for photodegrading ciprofloxacin by a magnetic photocatalyst modified with a POPD-CdS heterojunction embedded imprinted layer. <i>New Journal of Chemistry</i> , 2019, 43, 2610-2623.	1.4	15
66	Intramolecular π -conjugated channel expansion achieved by doping cross-linked dopants into carbon nitride frameworks for propelling photocatalytic hydrogen evolution and mechanism insight. <i>Inorganic Chemistry Frontiers</i> , 2021, 9, 60-69.	3.0	15
67	Molecularly imprinted nanocomposite membranes based on GO/PVDF blended membranes with an organic-inorganic structure for selective separation of norfloxacin. <i>New Journal of Chemistry</i> , 2017, 41, 14966-14976.	1.4	14
68	Solvothermal-Assisted Synthesis of Biomass Carbon Quantum Dots/Bismuth Oxyiodide Microflower for Enhanced Photocatalytic Activity. <i>Nano</i> , 2018, 13, 1850031.	0.5	14
69	Fabrication of 2D/0D Heterojunction Based on the Dual Controls of Micro/Nano-Morphology and Structure Towards High-Efficiency Photocatalytic H ₂ Production. <i>ChemCatChem</i> , 2019, 11, 6263-6269.	1.8	14
70	Ni ₂ P QDs decorated in the multi-shelled CaTiO ₃ cube for creating inter-shelled channel active sites to boost photocatalytic performance. <i>Journal of Colloid and Interface Science</i> , 2021, 584, 332-343.	5.0	14
71	Durability, inactivation and regeneration of silver tetratantalate in photocatalytic H ₂ evolution. <i>Physical Chemistry Chemical Physics</i> , 2015, 17, 795-799.	1.3	13
72	Improved light absorption and photocatalytic activity of Zn,N-TiO ₂ rich in oxygen vacancies synthesized by nitridation and hydrogenation. <i>New Journal of Chemistry</i> , 2015, 39, 2417-2420.	1.4	9

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73	Ultrathin Mesoporous Carbon Nitride Nanosheets Prepared Through a One-Pot Approach towards Enhanced Photocatalytic Activity. <i>Energy Technology</i> , 2020, 8, 2000719.	1.8	8
74	Nitrogen-doped biomass carbon fibers with surface encapsulated Co nanoparticles for electrocatalytic overall water-splitting. <i>Chemical Communications</i> , 2022, 58, 1772-1775.	2.2	8
75	Enhanced Selectivity for Oriented Catalyzing Tetracycline by the Functional Inorganic Imprinted ZnFe ₂ O ₄ @Ag ₃ PO ₄ /SiO ₂ Photocatalyst with Excellent Stability. <i>Nano</i> , 2019, 14, 1950004.	0.5	4
76	Ultrasmall Ag species decorated on Fe ₂ O ₃ nanorods toward high-efficient photocatalytic degrading tetracycline hydrochloride in water. <i>Journal of the Chinese Chemical Society</i> , 2021, 68, 1013-1019.	0.8	4
77	Revealing the mechanism of formation and transformation of chlorinated by-products during electrolyzing synthetic urine using Ti/RuO _x and BDD electrodes. <i>Fuel Cells</i> , 2022, 22, 102-114.	1.5	1
78	Frontispiece: Enhanced Recyclability, Stability, and Selectivity of CdS/C@Fe ₃ O ₄ Nanoreactors for Orientation Photodegradation of Ciprofloxacin. <i>Chemistry - A European Journal</i> , 2015, 21, .	1.7	0