Zhi Zhu

List of Publications by Citations

98 papers	4,020 citations	38 h-index	61 g-index
100 ext. papers	5,061 ext. citations	7.7 avg, IF	5.97 L-index

#	Paper	IF	Citations
98	Construction of high-dispersed Ag/Fe3O4/g-C3N4 photocatalyst by selective photo-deposition and improved photocatalytic activity. *Applied Catalysis B: Environmental*, **2016**, 182, 115-122	21.8	307
97	Facile microwave synthesis of a Z-scheme imprinted ZnFe2O4/Ag/PEDOT with the specific recognition ability towards improving photocatalytic activity and selectivity for tetracycline. *Chemical Engineering Journal*, **2018**, 337, 228-241	14.7	187
96	Microwave synthesis of a novel magnetic imprinted TiO2 photocatalyst with excellent transparency for selective photodegradation of enrofloxacin hydrochloride residues solution. *Chemical Engineering Journal*, **2014**, 249, 15-26	14.7	186
95	Synergy between van der waals heterojunction and vacancy in ZnIn2S4/g-C3N4 2D/2D photocatalysts for enhanced photocatalytic hydrogen evolution. *Applied Catalysis B: Environmental*, **2020**, 277, 119254	21.8	148
94	Fabrication of magnetically recoverable photocatalysts using g-C3N4 for effective separation of charge carriers through like-Z-scheme mechanism with Fe3O4 mediator. *Chemical Engineering Journal*, **2018**, 331, 615-625	14.7	141
93	Nitrogen-doped hydrogenated TiO2 modified with CdS nanorods with enhanced optical absorption, charge separation and photocatalytic hydrogen evolution. *Chemical Engineering Journal*, **2020**, 384, 123275	14.7	134
92	Changing conventional blending photocatalytic membranes (BPMs): Focus on improving photocatalytic performance of Fe3O4/g-C3N4/PVDF membranes through magnetically induced freezing casting method. *Chemical Engineering Journal*, **2019**, 365, 405-414	14.7	119
91	Fast electron transfer and enhanced visible light photocatalytic activity using multi-dimensional components of carbon quantum dots@3D daisy-like In2S3/single-wall carbon nanotubes. *Applied Catalysis B: Environmental*, **2017**, 204, 224-238	21.8	107
90	Enhanced visible light photocatalytic activity of alkaline earth metal ions-doped CdSe/rGO photocatalysts synthesized by hydrothermal method. *Applied Catalysis B: Environmental*, **2015**, 172-173, 174-184	21.8	105
89	Well-dispersed nebula-like ZnO/CeO2@HNTs heterostructure for efficient photocatalytic degradation of tetracycline. *Chemical Engineering Journal*, **2016**, 304, 917-933	14.7	99
88	Enhanced Recyclability, Stability, and Selectivity of CdS/C@Fe3O4 Nanoreactors for Orientation Photodegradation of Ciprofloxacin. *Chemistry - A European Journal*, **2015**, 21, 18528-33	4.8	92
87	Intercalation Effect of Attapulgite in g-C3N4 Modified with Fe3O4 Quantum Dots To Enhance Photocatalytic Activity for Removing 2-Mercaptobenzothiazole under Visible Light. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 10614-10623	8.3	90
86	Fabrication of conductive and high-dispersed Ppy@Ag/g-C3N4 composite photocatalysts for removing various pollutants in water. *Applied Surface Science*, **2016**, 387, 366-374	6.7	89
85	Insight into the effect of co-doped to the photocatalytic performance and electronic structure of g-C3N4 by first principle. *Applied Catalysis B: Environmental*, **2019**, 241, 319-328	21.8	82
84	Specific oriented recognition of a new stable ICTX@Mfa with retrievability for selective photocatalytic degrading of ciprofloxacin. *Catalysis Science and Technology*, **2016**, 6, 1367-1377	5.5	76
83	Fabricating C and O co-doped carbon nitride with intramolecular donor-acceptor systems for efficient photoreduction of CO2 to CO. *Applied Catalysis B: Environmental*, **2020**, 268, 118736	21.8	73
82	Enhanced photocatalytic activity of g-C3N4/ZnO/HNT composite heterostructure photocatalysts for degradation of tetracycline under visible light irradiation. *RSC Advances*, **2015**, 5, 91177-91189	3.7	70

81	Transfer Charge and Energy of Ag@CdSe QDs-rGO Core-Shell Plasmonic Photocatalyst for Enhanced Visible Light Photocatalytic Activity. *ACS Applied Materials & Interfaces*, **2015**, 7, 28231-43	9.5	70
80	Local surface plasma resonance effect enhanced Z-scheme ZnO/Au/g-C3N4 film photocatalyst for reduction of CO2 to CO. *Applied Catalysis B: Environmental*, **2021**, 283, 119638	21.8	63
79	Enhanced photocatalytic activity of a double conductive C/Fe3O4/Bi2O3 composite photocatalyst based on biomass. *Chemical Engineering Journal*, **2016**, 304, 351-361	14.7	62
78	CeO2/3D g-C3N4 heterojunction deposited with Pt cocatalyst for enhanced photocatalytic CO2 reduction. *Applied Surface Science*, **2021**, 537, 147891	6.7	62
77	A novel hollow capsule-like recyclable functional ZnO/C/Fe3O4 endowed with three-dimensional oriented recognition ability for selectively photodegrading danofloxacin mesylate. *Catalysis Science and Technology*, **2016**, 6, 6513-6524	5.5	61
76	Synthesis Ce-doped biomass carbon-based g-C3N4 via plant growing guide and temperature-programmed technique for degrading 2-Mercaptobenzothiazole. *Applied Catalysis B: Environmental*, **2020**, 268, 118432	21.8	57
75	Insights into enhanced visible light photocatalytic activity of t-Se nanorods/BiOCl ultrathin nanosheets 1D/2D heterojunctions. *Chemical Engineering Journal*, **2018**, 338, 218-229	14.7	56
74	Fabricated Ag/Ag2S/reduced graphene oxide composite photocatalysts for enhancing visible light photocatalytic and antibacterial activity. *Journal of Industrial and Engineering Chemistry*, **2018**, 57, 125-133	6.3	55
73	Fabricated rGO-modified AgS nanoparticles/g-CN nanosheets photocatalyst for enhancing photocatalytic activity. *Journal of Colloid and Interface Science*, **2019**, 554, 468-478	9.3	53
72	Performance of a novel TiO2 photocatalyst based on the magnetic floating fly-ash cenospheres for the purpose of treating waste by waste. *Chemical Engineering Journal*, **2013**, 225, 34-42	14.7	53
71	Surface imprinting of a g-C3N4 photocatalyst for enhanced photocatalytic activity and selectivity towards photodegradation of 2-mercaptobenzothiazole. *RSC Advances*, **2015**, 5, 40726-40736	3.7	49
70	Preparation high photocatalytic activity of CdS/halloysite nanotubes (HNTs) nanocomposites with hydrothermal method. *Applied Surface Science*, **2012**, 259, 698-704	6.7	49
69	Z-scheme AgVO3/ZnIn2S4 photocatalysts: One Stone and Two Birds strategy to solve photocorrosion and improve the photocatalytic activity and stability. *Chemical Engineering Journal*, **2020**, 398, 125523	14.7	49
68	Fabrication of the metal-free biochar-based graphitic carbon nitride for improved 2-Mercaptobenzothiazole degradation activity. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 358, 284-293	4.7	47
67	Synergetic effect of carbon sphere derived from yeast with magnetism and cobalt oxide nanochains towards improving photodegradation activity for various pollutants. *Applied Catalysis B: Environmental*, **2018**, 220, 137-147	21.8	43
66	Facile synthesis of highly efficient graphitic-C3N4/ZnFe2O4 heterostructures enhanced visible-light photocatalysis for spiramycin degradation. *Journal of Photochemistry and Photobiology A: Chemistry* , **2016**, 328, 24-32	4.7	42
65	Preparation and characterization of Ag2O/SWNTs photocatalysts and its photodegradation on tetracycline. *Journal of Industrial and Engineering Chemistry*, **2015**, 30, 64-70	6.3	40
64	Ultrathin magnetic Mg-Al LDH photocatalyst for enhanced CO reduction: Fabrication and mechanism. *Journal of Colloid and Interface Science*, **2019**, 555, 1-10	9.3	40

63	Hydrothermal Synthesis of CdSe Quantum Dots and Their Photocatalytic Activity on Degradation of Cefalexin. *Industrial & Engineering Chemistry Research*, **2013**, 52, 15015-15023	3.9	39
62	Construction of a multi-interfacial-electron transfer scheme for efficient CO2 photoreduction: a case study using CdIn2S4 micro-flower spheres modified with Au nanoparticles and reduced graphene oxide. *Journal of Materials Chemistry A*, **2020**, 8, 18707-18714	13	39
61	Preparation and performance of a novel magnetic conductive imprinted photocatalyst for selective photodegradation of antibiotic solution. *RSC Advances*, **2013**, 3, 18373	3.7	38
60	Microwave-hydrothermal synthesis of a novel, recyclable and stable photocatalytic nanoreactor for recognition and degradation of tetracycline. *Catalysis Science and Technology*, **2017**, 7, 4092-4104	5.5	37
59	Construction of an attapulgite intercalated mesoporous g-C 3 N 4 with enhanced photocatalytic activity for antibiotic degradation. *Journal of Photochemistry and Photobiology A: Chemistry*, **2018**, 359, 102-110	4.7	36
58	Construction of stable core□shell imprinted Ag-(poly-o-phenylenediamine)/CoFe2O4 photocatalyst endowed with the specific recognition capability for selective photodegradation of ciprofloxacin. *RSC Advances*, **2017**, 7, 48894-48903	3.7	36
57	Visible-light driven photocatalyst of CdTe/CdS homologous heterojunction on N-rGO photocatalyst for efficient degradation of 2,4-dichlorophenol. *Journal of the Taiwan Institute of Chemical Engineers*, **2018**, 93, 603-615	5.3	36
56	Fabrication of magnetic quantum dots modified Z-scheme Bi2O4/g-C3N4 photocatalysts with superior hydroxyl radical productivity for the degradation of rhodamine B. *Applied Surface Science*, **2019**, 493, 458-469	6.7	33
55	Fabricated 2D/2D CdIn2S4/N-rGO muti-heterostructure photocatalyst for enhanced photocatalytic activity. *Carbon*, **2019**, 152, 565-574	10.4	31
54	Study on optical properties of alkali metal doped g-C3N4 and their photocatalytic activity for reduction of CO2. *Chemical Physics Letters*, **2020**, 751, 137467	2.5	31
53	Waste Biomass Based-Activated Carbons Derived from Soybean Pods as Electrode Materials for High-Performance Supercapacitors. *ChemistrySelect*, **2018**, 3, 5726-5732	1.8	30
52	Studying of Co-doped g-C3N4 and modified with Fe3O4 quantum dots on removing tetracycline. *Journal of Alloys and Compounds*, **2019**, 775, 248-258	5.7	29
51	Z-scheme MoS2/Bi2O3 heterojunctions: enhanced photocatalytic degradation performance and mechanistic insight. *New Journal of Chemistry*, **2019**, 43, 11876-11886	3.6	28
50	Enhanced light utilization efficiency and fast charge transfer for excellent CO photoreduction activity by constructing defect structures in carbon nitride. *Journal of Colloid and Interface Science*, **2020**, 578, 574-583	9.3	27
49	Enhanced photocatalytic performance and stability of visible-light-driven Z-scheme CdS/Ag/g-C3N4 nanosheets photocatalyst. *New Journal of Chemistry*, **2018**, 42, 12437-12448	3.6	26
48	La2O3 media enhanced electrons transfer for improved CeVO4@halloysite nanotubes photocatalytic activity for removing tetracycline. *Journal of the Taiwan Institute of Chemical Engineers*, **2019**, 96, 281-298	5.3	25
47	Heterojunction photocatalyst fabricated by deposition Co3O4 nanoparticles on MoS2 nanosheets with enhancing photocatalytic performance and mechanism insight. *Journal of the Taiwan Institute of Chemical Engineers*, **2019**, 97, 158-169	5.3	24
46	One-step hydrothermal synthesis of cobalt and potassium codoped CdSe quantum dots with high visible light photocatalytic activity. *CrystEngComm*, **2015**, 17, 1701-1709	3.3	24

45	Biomimetic design and synthesis of visible-light-driven g-CN nanotube @polydopamine/NiCo-layered double hydroxides composite photocatalysts for improved photocatalytic hydrogen evolution activity. *Journal of Colloid and Interface Science*, **2021**, 584, 464-473	9.3	21
44	Enhanced visible-light photocatalytic decomposition of organic dye over CdSe/Al2TiO5 heterojunction photocatalysts. *Journal of Alloys and Compounds*, **2017**, 712, 486-493	5.7	20
43	A novel OFF-ON-OFF fluorescence probe based on coumarin for Al and F detection and bioimaging in living cells. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 211, 299-305	4.4	19
42	Carbon dots modifying sphere-flower CdIn2S4 on N-rGO sheet muti-dimensional photocatalyst for efficient visible degradation of 2,4-dichlorophenol. *Journal of the Taiwan Institute of Chemical Engineers*, **2019**, 99, 142-153	5.3	18
41	Enhanced selective photocatalytic properties of a novel magnetic retrievable imprinted ZnFe2O4/PPy composite with specific recognition ability. *RSC Advances*, **2016**, 6, 51877-51887	3.7	18
40	Construction of the biomass carbon quantum dots modified heterojunction Bi2WO6/Cu2O photocatalysis for enhancing light utilization and mechanism insight. *Journal of the Taiwan Institute of Chemical Engineers*, **2019**, 102, 197-201	5.3	17
39	Making of a metal-free graphitic carbon nitride composites based on biomass carbon for efficiency enhanced tetracycline degradation activity. *Journal of the Taiwan Institute of Chemical Engineers*, **2018**, 89, 151-161	5.3	17
38	A two step hydrothermal process to prepare carbon spheres from bamboo for construction of core–shell non-metallic photocatalysts. *New Journal of Chemistry*, **2018**, 42, 6515-6524	3.6	16
37	A 2D mesoporous photocatalyst constructed by the modification of biochar on BiOCl ultrathin nanosheets for enhancing the TC-HCl degradation activity. *New Journal of Chemistry*, **2020**, 44, 79-86	3.6	16
36	Preparation of noble metal Ag-modified BiVO4 nanosheets and a study on the degradation performance of tetracyclines. *New Journal of Chemistry*, **2020**, 44, 13815-13823	3.6	14
35	Nitrogen defect engineering and π-conjugation structure decorated g-C3N4 with highly enhanced visible-light photocatalytic hydrogen evolution and mechanism insight. *Chemical Engineering Journal*, **2021**, 425, 131844	14.7	14
34	Fabrication of magnetic g-C3N4 for effectively enhanced tetracycline degradation with RGO as mediator. *New Journal of Chemistry*, **2018**, 42, 15974-15984	3.6	13
33	Sulfur-doped g-C3N4 for efficient photocatalytic CO2 reduction: insights by experiment and first-principles calculations. *Catalysis Science and Technology*, **2021**, 11, 1725-1736	5.5	12
32	Construction of spindle structured CeO2 modified with rod-like attapulgite as a high-performance photocatalyst for CO2 reduction. *Catalysis Science and Technology*, **2019**, 9, 3788-3799	5.5	11
31	A novel ratiometric and colorimetric fluorescent probe for hypochlorite based on cyanobiphenyl and its applications. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2019**, 219, 576-581	4.4	11
30	Fabrication of CoFe2O4-modified and HNTs-supported g-C3N4 heterojunction photocatalysts for enhancing MBT degradation activity under visible light. *Journal of Materials Science*, **2020**, 55, 4358-4371	4.3	11
29	A heterojunction photocatalyst constructed by the modification of 2D-CeO2 on 2D-MoS2 nanosheets with enhanced degrading activity. *Catalysis Science and Technology*, **2020**, 10, 788-800	5.5	11
28	Synthesis of stable core–shell structured TiO2@Fe3O4 based on carbon derived from yeast with an enhanced photocatalytic ability. *RSC Advances*, **2016**, 6, 46889-46899	3.7	11

27	Bi-based semiconductors composites of BiVO4 quantum dots decorated Bi12TiO20 via in-suit growth with ultrasound for enhancing photocatalytic performance. *Journal of Alloys and Compounds*, **2019**, 785, 460-467	5.7	10
26	Boosting charge carriers separation and migration efficiency via fabricating all organic van der Waals heterojunction for efficient photoreduction of CO2. *Chemical Engineering Journal*, **2021**, 408, 127292	14.7	10
25	Solvothermal-Assisted Synthesis of Biomass Carbon Quantum Dots/Bismuth Oxyiodide Microflower for Enhanced Photocatalytic Activity. *Nano*, **2018**, 13, 1850031	1.1	9
24	Fabrication of a visible-light In2S3/BiPO4 heterojunction with enhanced photocatalytic activity. *New Journal of Chemistry*, **2018**, 42, 15136-15145	3.6	9
23	A novel CdS photocatalyst based on magnetic fly ash cenospheres as the carrier: performance and mechanism. *RSC Advances*, **2014**, 4, 60148-60157	3.7	7
22	Fabricating intramolecular donor-acceptor system via covalent bonding of carbazole to carbon nitride for excellent photocatalytic performance towards CO conversion. *Journal of Colloid and Interface Science*, **2021**, 594, 550-560	9.3	7
21	Biomass-Assisted Synthesis of CeO2 Nanorods for CO2 Photoreduction under Visible Light. *ACS Applied Nano Materials*, **2021**, 4, 4226-4237	5.6	6
20	Self-induced Fenton reaction constructed by Fe(III) grafted BiVO4 nanosheets with improved photocatalytic performance and mechanism insight. *Applied Surface Science*, **2019**, 467-468, 673-683	6.7	6
19	G-C3N4 quantum dots and Au nano particles co-modified CeO2/Fe3O4 micro-flowers photocatalyst for enhanced CO2 photoreduction. *Renewable Energy*, **2021**, 179, 756-765	8.1	6
18	Construction of a novel ternary composite of Co-doped CdSe loaded on biomass carbon spheres as visible light photocatalysts for efficient photocatalytic applications. *Dalton Transactions*, **2019**, 48, 6824-6833	4.3	5
17	Enhanced Photocatalytic Activity and Selectivity of a Novel Magnetic PW@PEDOT Imprinted Photocatalyst with Good Reproducibility. *Nano*, **2018**, 13, 1850020	1.1	5
16	Developed a novel quinazolinone based turn-on fluorescence probe for highly selective monitoring hypochlorite and its bioimaging applications. *Spectrochimica Acta - Part A: Molecular and Biomolecular Spectroscopy*, **2020**, 228, 117845	4.4	5
15	Fabrication of a Z-scheme MoS2/CuO heterojunction for enhanced 2-mercaptobenzothiazole degradation activity and mechanism insight. *New Journal of Chemistry*, **2020**, 44, 18264-18273	3.6	5
14	Fabrication of silver vanadate quantum dots/reduced graphene oxide/graphitic carbon nitride Z-scheme heterostructure modified polyvinylidene fluoride self-cleaning membrane for enhancing photocatalysis and mechanism insight.. *Journal of Colloid and Interface Science*, **2022**, 614, 677-689	9.3	4
13	Construction of the rapid spatial charge migration core/shell heterostructure by ZnIn2S4 nanosheet-surface-loaded □Bi2O3 for improved photooxidative performance. *Journal of Materials Science*, **2020**, 55, 14211-14228	4.3	4
12	Insight into the Effect of the Cl 3p Orbital on g-C3N4 Mimicking Photosynthesis under CO2 Reduction. *Journal of Physical Chemistry C*, **2021**, 125, 9646-9656	3.8	4
11	Construction of a CsPbBr3 modified porous g-C3N4 photocatalyst for effective reduction of CO2 and mechanism exploration. *New Journal of Chemistry*, **2021**, 45, 1082-1091	3.6	4
10	Fabrication of high photocatalytic activity and easy recovery photocatalysts with ZnFe2O4 supported on ultrathin MoS2 nanosheets. *Journal of Materials Science: Materials in Electronics*, **2020**, 31, 8761-8772	2.1	3

9	Leaf-Vein structure like g-C3N4/P-MWNTs donor-accepter hybrid catalyst for efficient CO2 photoreduction. *Carbon*, **2022**, 188, 59-69	10.4	3
8	Designed Redox Ions Pairs imprinted photocatalyst of Fe3+@PoPD/TiO2/HNTs for enhanced photocatalytic activity. *Materials Technology*, **2020**, 35, 843-852	2.1	3
7	0D/3D-CdSe/Bi12TiO20 Pyramidal Heterostructure Photocatalysts for Enhanced Visible-Light Photocatalytic Activities. *Nano*, **2017**, 12, 1750072	1.1	2
6	Magnetic induced fabrication of core-shell structure Fe3O4@TiO2 photocatalytic membrane: enhancing photocatalytic degradation of tetracycline and antifouling performance. *Journal of Environmental Chemical Engineering*, **2021**, 106666	6.8	2
5	Numerical study on optoelectronic properties of alkaline-earth metal doped g-C3N4. *Chemical Physics*, **2021**, 544, 111104	2.3	2
4	Ag/BiOI/C enhanced photocatalytic activity under visible light irradiation. *Journal of Dispersion Science and Technology*, **2021**, 42, 1116-1124	1.5	2
3	A facile surface modification of a PVDF membrane via CaCO3 mineralization for efficient oil/water emulsion separation. *New Journal of Chemistry*, **2020**, 44, 20999-21006	3.6	1
2	Construction of Carbon Nitride Based Intramolecular D□A System for Effective Photocatalytic Reduction of CO2. *Catalysis Letters*,1	2.8	1
1	Biochar modified Co□Al LDH for enhancing photocatalytic reduction CO2 performance and mechanism insight. *Research on Chemical Intermediates*,1	2.8	0