Chengyun Zhou

List of Publications by Year
in descending order

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107	16,016	13827 67	27345 106
papers	citations	h-index	g-index

107	107	107	11432
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Covalent organic framework photocatalysts: structures and applications. Chemical Society Reviews, 2020, 49, 4135-4165.	18.7	649
2	Boron nitride quantum dots decorated ultrathin porous g-C3N4: Intensified exciton dissociation and charge transfer for promoting visible-light-driven molecular oxygen activation. Applied Catalysis B: Environmental, 2019, 245, 87-99.	10.8	543
3	Construction of iodine vacancy-rich BiOI/Ag@AgI Z-scheme heterojunction photocatalysts for visible-light-driven tetracycline degradation: Transformation pathways and mechanism insight. Chemical Engineering Journal, 2018, 349, 808-821.	6.6	538
4	Facile assembled biochar-based nanocomposite with improved graphitization for efficient photocatalytic activity driven by visible light. Applied Catalysis B: Environmental, 2019, 250, 78-88.	10.8	516
5	Ti3C2 Mxene/porous g-C3N4 interfacial Schottky junction for boosting spatial charge separation in photocatalytic H2O2 production. Applied Catalysis B: Environmental, 2019, 258, 117956.	10.8	485
6	Highly porous carbon nitride by supramolecular preassembly of monomers for photocatalytic removal of sulfamethazine under visible light driven. Applied Catalysis B: Environmental, 2018, 220, 202-210.	10.8	478
7	BiOX (Xâ€¯=â€¯Cl, Br, I) photocatalytic nanomaterials: Applications for fuels and environmental management. Advances in Colloid and Interface Science, 2018, 254, 76-93.	7.0	422
8	Adsorption of tetracycline antibiotics from aqueous solutions on nanocomposite multi-walled carbon nanotube functionalized MIL-53(Fe) as new adsorbent. Science of the Total Environment, 2018, 627, 235-244.	3.9	418
9	Metal-organic frameworks for highly efficient heterogeneous Fenton-like catalysis. Coordination Chemistry Reviews, 2018, 368, 80-92.	9.5	401
10	Facile Hydrothermal Synthesis of Z-Scheme Bi₂Fe₄O₉/Bi₂WO₆ Heterojunction Photocatalyst with Enhanced Visible Light Photocatalytic Activity. ACS Applied Materials & Interfaces, 2018, 10, 18824-18836.	4.0	397
11	Recent advances in application of graphitic carbon nitride-based catalysts for degrading organic contaminants in water through advanced oxidation processes beyond photocatalysis: A critical review. Water Research, 2020, 184, 116200.	5.3	343
12	Sulfur doped carbon quantum dots loaded hollow tubular g-C3N4 as novel photocatalyst for destruction of Escherichia coli and tetracycline degradation under visible light. Chemical Engineering Journal, 2019, 378, 122132.	6.6	320
13	Megamerger in photocatalytic field: 2D g-C3N4 nanosheets serve as support of 0D nanomaterials for improving photocatalytic performance. Applied Catalysis B: Environmental, 2019, 240, 153-173.	10.8	310
14	1D porous tubular g-C3N4 capture black phosphorus quantum dots as 1D/0D metal-free photocatalysts for oxytetracycline hydrochloride degradation and hexavalent chromium reduction. Applied Catalysis B: Environmental, 2020, 273, 119051.	10.8	306
15	Semiconductor/boron nitride composites: Synthesis, properties, and photocatalysis applications. Applied Catalysis B: Environmental, 2018, 238, 6-18.	10.8	289
16	Graphitic Carbon Nitride-Based Heterojunction Photoactive Nanocomposites: Applications and Mechanism Insight. ACS Applied Materials & Interfaces, 2018, 10, 21035-21055.	4.0	266
17	Artificial Z-scheme photocatalytic system: What have been done and where to go?. Coordination Chemistry Reviews, 2019, 385, 44-80.	9.5	265
18	Molecular engineering of polymeric carbon nitride for highly efficient photocatalytic oxytetracycline degradation and H2O2 production. Applied Catalysis B: Environmental, 2020, 272, 118970.	10.8	263

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19	In Situ Grown AgI/Bi₁₂O₁₇Cl₂ Heterojunction Photocatalysts for Visible Light Degradation of Sulfamethazine: Efficiency, Pathway, and Mechanism. ACS Sustainable Chemistry and Engineering, 2018, 6, 4174-4184.	3.2	249
20	Black Phosphorus, a Rising Star 2D Nanomaterial in the Postâ€Graphene Era: Synthesis, Properties, Modifications, and Photocatalysis Applications. Small, 2019, 15, e1804565.	5.2	244
21	Multi-walled carbon nanotube/amino-functionalized MIL-53(Fe) composites: Remarkable adsorptive removal of antibiotics from aqueous solutions. Chemosphere, 2018, 210, 1061-1069.	4.2	241
22	Metal or metal-containing nanoparticle@MOF nanocomposites as a promising type of photocatalyst. Coordination Chemistry Reviews, 2019, 388, 63-78.	9.5	235
23	In Situ Grown Singleâ€Atom Cobalt on Polymeric Carbon Nitride with Bidentate Ligand for Efficient Photocatalytic Degradation of Refractory Antibiotics. Small, 2020, 16, e2001634.	5.2	235
24	Two-dimensional transition metal carbide and nitride (MXene) derived quantum dots (QDs): synthesis, properties, applications and prospects. Journal of Materials Chemistry A, 2020, 8, 7508-7535.	5.2	201
25	In-situ deposition of gold nanoparticles onto polydopamine-decorated g-C3N4 for highly efficient reduction of nitroaromatics in environmental water purification. Journal of Colloid and Interface Science, 2019, 534, 357-369.	5.0	200
26	Efficient degradation of sulfamethazine in simulated and real wastewater at slightly basic pH values using Co-SAM-SCS /H2O2 Fenton-like system. Water Research, 2018, 138, 7-18.	5.3	198
27	Rational Design of Carbon-Doped Carbon Nitride/Bi₁₂O₁₇Cl₂ Composites: A Promising Candidate Photocatalyst for Boosting Visible-Light-Driven Photocatalytic Degradation of Tetracycline. ACS Sustainable Chemistry and Engineering, 2018, 6, 6941-6949.	3.2	196
28	Rational design of graphic carbon nitride copolymers by molecular doping for visible-light-driven degradation of aqueous sulfamethazine and hydrogen evolution. Chemical Engineering Journal, 2019, 359, 186-196.	6.6	195
29	Nitrogen self-doped g-C3N4 nanosheets with tunable band structures for enhanced photocatalytic tetracycline degradation. Journal of Colloid and Interface Science, 2019, 536, 17-29.	5.0	193
30	Alkali Metal-Assisted Synthesis of Graphite Carbon Nitride with Tunable Band-Gap for Enhanced Visible-Light-Driven Photocatalytic Performance. ACS Sustainable Chemistry and Engineering, 2018, 6, 15503-15516.	3.2	188
31	Nano-structured bismuth tungstate with controlled morphology: Fabrication, modification, environmental application and mechanism insight. Chemical Engineering Journal, 2019, 358, 480-496.	6.6	185
32	Cu and Co nanoparticles co-doped MIL-101 as a novel adsorbent for efficient removal of tetracycline from aqueous solutions. Science of the Total Environment, 2019, 650, 408-418.	3.9	182
33	Prussian blue analogue derived magnetic Cu-Fe oxide as a recyclable photo-Fenton catalyst for the efficient removal of sulfamethazine at near neutral pH values. Chemical Engineering Journal, 2019, 362, 865-876.	6.6	181
34	Multiply structural optimized strategies for bismuth oxyhalide photocatalysis and their environmental application. Chemical Engineering Journal, 2019, 374, 1025-1045.	6.6	180
35	Efficient charge transfer in aluminum-cobalt layered double hydroxide derived from Co-ZIF for enhanced catalytic degradation of tetracycline through peroxymonosulfate activation. Chemical Engineering Journal, 2020, 382, 122802.	6.6	174
36	Immobilization of laccase on hollow mesoporous carbon nanospheres: Noteworthy immobilization, excellent stability and efficacious for antibiotic contaminants removal. Journal of Hazardous Materials, 2019, 362, 318-326.	6.5	170

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37	Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. Coordination Chemistry Reviews, 2020, 409, 213220.	9.5	169
38	Adsorption behavior of engineered carbons and carbon nanomaterials for metal endocrine disruptors: Experiments and theoretical calculation. Chemosphere, 2019, 222, 184-194.	4.2	157
39	New notion of biochar: A review on the mechanism of biochar applications in advannced oxidation processes. Chemical Engineering Journal, 2021, 416, 129027.	6.6	153
40	Recent progress on metal-organic frameworks based- and derived-photocatalysts for water splitting. Chemical Engineering Journal, 2020, 383, 123196.	6.6	148
41	Preparation of water-compatible molecularly imprinted thiol-functionalized activated titanium dioxide: Selective adsorption and efficient photodegradation of 2, 4-dinitrophenol in aqueous solution. Journal of Hazardous Materials, 2018, 346, 113-123.	6.5	146
42	Efficient visible light driven degradation of sulfamethazine and tetracycline by salicylic acid modified polymeric carbon nitride via charge transfer. Chemical Engineering Journal, 2019, 370, 1077-1086.	6.6	143
43	Metal-organic frameworks derived magnetic carbon-Î±Fe/Fe3C composites as a highly effective adsorbent for tetracycline removal from aqueous solution. Chemical Engineering Journal, 2019, 374, 91-99.	6.6	141
44	Rhamnolipid stabilized nano-chlorapatite: Synthesis and enhancement effect on Pb-and Cd-immobilization in polluted sediment. Journal of Hazardous Materials, 2018, 343, 332-339.	6.5	139
45	Recent advances in application of transition metal phosphides for photocatalytic hydrogen production. Chemical Engineering Journal, 2021, 405, 126547.	6.6	139
46	Progress and challenges of metal-organic frameworks-based materials for SR-AOPs applications in water treatment. Chemosphere, 2021, 263, 127672.	4.2	138
47	Advanced photocatalytic Fenton-like process over biomimetic hemin-Bi2WO6 with enhanced pH. Journal of the Taiwan Institute of Chemical Engineers, 2018, 93, 184-192.	2.7	132
48	Visible-light-driven photocatalytic degradation of sulfamethazine by surface engineering of carbon nitrideï¼šProperties, degradation pathway and mechanisms. Journal of Hazardous Materials, 2019, 380, 120815.	6.5	131
49	Metal-organic frameworks derived Bi2O2CO3/porous carbon nitride: A nanosized Z-scheme systems with enhanced photocatalytic activity. Applied Catalysis B: Environmental, 2020, 267, 118700.	10.8	131
50	Construction of MIL-53(Fe) metal-organic framework modified by silver phosphate nanoparticles as a novel Z-scheme photocatalyst: Visible-light photocatalytic performance and mechanism investigation. Applied Surface Science, 2019, 465, 103-115.	3.1	129
51	Remediation of lead-contaminated sediment by biochar-supported nano-chlorapatite: Accompanied with the change of available phosphorus and organic matters. Journal of Hazardous Materials, 2018, 348, 109-116.	6.5	128
52	Catalyst-free activation of permanganate under visible light irradiation for sulfamethazine degradation: Experiments and theoretical calculation. Water Research, 2021, 194, 116915.	5.3	124
53	Recent progress in sustainable technologies for adsorptive and reactive removal of sulfonamides. Chemical Engineering Journal, 2020, 389, 123423.	6.6	122
54	Immobilized laccase on bentonite-derived mesoporous materials for removal of tetracycline. Chemosphere, 2019, 222, 865-871.	4.2	121

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55	Integrating N and F co-doped TiO2 nanotubes with ZIF-8 as photoelectrode for enhanced photo-electrocatalytic degradation of sulfamethazine. Chemical Engineering Journal, 2020, 388, 124388.	6.6	117
56	Recent progress in conjugated microporous polymers for clean energy: Synthesis, modification, computer simulations, and applications. Progress in Polymer Science, 2021, 115, 101374.	11.8	117
57	Modifying delafossite silver ferrite with polyaniline: Visible-light-response Z-scheme heterojunction with charge transfer driven by internal electric field. Chemical Engineering Journal, 2019, 370, 1087-1100.	6.6	115
58	ZnxCd1-xS based materials for photocatalytic hydrogen evolution, pollutants degradation and carbon dioxide reduction. Applied Catalysis B: Environmental, 2020, 267, 118651.	10.8	108
59	Carbon nitride based photocatalysts for solar photocatalytic disinfection, can we go further?. Chemical Engineering Journal, 2021, 404, 126540.	6.6	105
60	Peroxymonosulfate activation of magnetic Co nanoparticles relative to an N-doped porous carbon under confinement: Boosting stability and performance. Separation and Purification Technology, 2020, 250, 117237.	3.9	103
61	A fantastic two-dimensional MoS2 material based on the inert basal planes activation: Electronic structure, synthesis strategies, catalytic active sites, catalytic and electronics properties. Coordination Chemistry Reviews, 2019, 399, 213020.	9.5	101
62	Distorted polymeric carbon nitride via carriers transfer bridges with superior photocatalytic activity for organic pollutants oxidation and hydrogen production under visible light. Journal of Hazardous Materials, 2020, 386, 121947.	6.5	95
63	A novel molecularly imprinted material based on magnetic halloysite nanotubes for rapid enrichment of 2,4-dichlorophenoxyacetic acid in water. Journal of Hazardous Materials, 2014, 276, 58-65.	6.5	94
64	Heterogeneous Fenton-like catalyst for treatment of rhamnolipid-solubilized hexadecane wastewater. Chemosphere, 2019, 236, 124387.	4.2	93
65	Ni-doped MIL-53(Fe) nanoparticles for optimized doxycycline removal by using response surface methodology from aqueous solution. Chemosphere, 2019, 232, 186-194.	4.2	85
66	Comprehensive evaluation of the cytotoxicity of CdSe/ZnS quantum dots in Phanerochaete chrysosporium by cellular uptake and oxidative stress. Environmental Science: Nano, 2017, 4, 2018-2029.	2.2	81
67	Salicylic acidâ€“methanol modified steel converter slag as heterogeneous Fenton-like catalyst for enhanced degradation of alachlor. Chemical Engineering Journal, 2017, 327, 686-693.	6.6	77
68	Rational design to manganese and oxygen co-doped polymeric carbon nitride for efficient nonradical activation of peroxymonosulfate and the mechanism insight. Chemical Engineering Journal, 2022, 430, 132751.	6.6	70
69	Recent advances in impacts of microplastics on nitrogen cycling in the environment: A review. Science of the Total Environment, 2022, 815, 152740.	3.9	70
70	Bismuth-based metalâ€“organic frameworks and their derivatives: Opportunities and challenges. Coordination Chemistry Reviews, 2021, 439, 213902.	9.5	62
71	An overview on nitride and nitrogen-doped photocatalysts for energy and environmental applications. Composites Part B: Engineering, 2019, 172, 704-723.	5.9	61
72	In-situ grown of g-C3N4/Ti3C2/TiO2 nanotube arrays on Ti meshes for efficient degradation of organic pollutants under visible light irradiation. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 594, 124511.	2.3	61

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73	Formation of Mo2C/hollow tubular g-C3N4 hybrids with favorable charge transfer channels for excellent visible-light-photocatalytic performance. Applied Surface Science, 2020, 527, 146757.	3.1	56
74	Sustainable hydrogen production by molybdenum carbide-based efficient photocatalysts: From properties to mechanism. Advances in Colloid and Interface Science, 2020, 279, 102144.	7.0	55
75	Materials Institute Lavoisier (MIL) based materials for photocatalytic applications. Coordination Chemistry Reviews, 2021, 438, 213874.	9.5	53
76	Pyrite-mediated advanced oxidation processes: Applications, mechanisms, and enhancing strategies. Water Research, 2022, 211, 118048.	5.3	53
77	Surface and interface engineering of two-dimensional bismuth-based photocatalysts for ambient molecule activation. Journal of Materials Chemistry A, 2021, 9, 196-233.	5.2	50
78	Refined regulation and nitrogen doping of biochar derived from ramie fiber by deep eutectic solvents (DESs) for catalytic persulfate activation toward non-radical organics degradation and disinfection. Journal of Colloid and Interface Science, 2021, 601, 544-555.	5.0	48
79	Recent advances in metalâ€“organic framework-based materials for removal of fluoride in water: Performance, mechanism, and potential practical application. Chemical Engineering Journal, 2022, 446, 137299.	6.6	48
80	Using graphdiyne (GDY) as a catalyst support for enhanced performance in organic pollutant degradation and hydrogen production: A review. Journal of Hazardous Materials, 2020, 398, 122957.	6.5	45
81	Synthetic strategies and application of gold-based nanocatalysts for nitroaromatics reduction. Science of the Total Environment, 2019, 652, 93-116.	3.9	44
82	Recent advance of graphene/semiconductor composite nanocatalysts: Synthesis, mechanism, applications and perspectives. Chemical Engineering Journal, 2021, 414, 128795.	6.6	42
83	Investigation on the structure-performance of phthalic acid carboxyl position and carbon nitride towards efficient photocatalytic degradation of organic pollutants. Separation and Purification Technology, 2022, 286, 120464.	3.9	41
84	Strategies for enhancing the perylene diimide photocatalytic degradation activity: method, effect factor, and mechanism. Environmental Science: Nano, 2021, 8, 602-618.	2.2	39
85	A critical review of biochar-based materials for the remediation of heavy metal contaminated environment: Applications and practical evaluations. Science of the Total Environment, 2022, 806, 150531.	3.9	39
86	Novel Ag3PO4 modified tubular carbon nitride with visible-light-driven peroxymonosulfate activation: A wide pH tolerance and reaction mechanism. Chemical Engineering Journal, 2022, 432, 133588.	6.6	35
87	Efficient conversion of myricetin from Ampelopsis grossedentata extracts and its purification by MIP-SPE. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2014, 945-946, 39-45.	1.2	34
88	Waterâ€compatible halloysiteâ€imprinted polymer by Pickering emulsion polymerization for the selective recognition of herbicides. Journal of Separation Science, 2015, 38, 1365-1371.	1.3	34
89	A review of titanium dioxide and its highlighted application in molecular imprinting technology in environment. Journal of the Taiwan Institute of Chemical Engineers, 2018, 91, 517-531.	2.7	34
90	Metal-free carbon nitride with boosting photo-redox ability realized by the controlled carbon dopants. Chemical Engineering Journal, 2020, 382, 122657.	6.6	34

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91	Influence of multi-walled carbon nanotubes on the microbial biomass, enzyme activity, and bacterial community structure in 2,4-dichlorophenol-contaminated sediment. Science of the Total Environment, 2020, 713, 136645.	3.9	32
92	Effects of biochar-based materials on the bioavailability of soil organic pollutants and their biological impacts. Science of the Total Environment, 2022, 826, 153956.	3.9	25
93	3D graphene aerogel based photocatalysts: Synthesized, properties, and applications. Colloids and Surfaces A: Physicochemical and Engineering Aspects, 2020, 594, 124666.	2.3	24
94	Stabilization of lead in polluted sediment based on an eco-friendly amendment strategy: Microenvironment response mechanism. Journal of Hazardous Materials, 2021, 415, 125534.	6.5	23
95	Environmentally persistent free radicals in bismuth-based metalâ€“organic layers derivatives: Photodegradation of pollutants and mechanism unravelling. Chemical Engineering Journal, 2022, 430, 133026.	6.6	23
96	Particulate matter promotes hyperpigmentation via AhR/MAPK signaling activation and by increasing Î±-MSH paracrine levels in keratinocytes. Environmental Pollution, 2021, 278, 116850.	3.7	22
97	How does the microenvironment change during the stabilization of cadmium in exogenous remediation sediment?. Journal of Hazardous Materials, 2020, 398, 122836.	6.5	21
98	Photocatalytic degradation of antibiotics by molecular assembly porous carbon nitride: Activity studies and artificial neural networks modeling. Chemical Physics Letters, 2020, 750, 137479.	1.2	17
99	Lignocellulosic biomass derived N-doped and CoO-loaded carbocatalyst used as highly efficient peroxymonosulfate activator for ciprofloxacin degradation. Journal of Colloid and Interface Science, 2022, 610, 221-233.	5.0	17
100	Response of microorganisms to phosphate nanoparticles in Pb polluted sediment: Implications of Pb bioavailability, enzyme activities and bacterial community. Chemosphere, 2022, 286, 131643.	4.2	15
101	Benzyl butyl phthalate activates prophage, threatening the stable operation of waste activated sludge anaerobic digestion. Science of the Total Environment, 2021, 768, 144470.	3.9	11
102	Efficient antibiotics removal via the synergistic effect of manganese ferrite and MoS2. Chemosphere, 2022, 288, 132494.	4.2	11
103	High-efficient degradation of sulfamethazine by electro-enhanced peroxymonosulfate activation with bimetallic modified Mud sphere catalyst. Separation and Purification Technology, 2022, 292, 120977.	3.9	9
104	Effects of typical engineered nanomaterials on 4-nonylphenol degradation in river sediment: based on bacterial community and function analysis. Environmental Science: Nano, 2019, 6, 2171-2184.	2.2	8
105	Waste coal cinder catalyst enhanced electrocatalytic oxidation and persulfate advanced oxidation for the degradation of sulfadiazine. Chemosphere, 2022, 303, 134880.	4.2	6
106	Managing Fenton-treated sediment with biochar and sheep manure compost: Effects on the evolutionary characteristics of bacterial community. Journal of Environmental Management, 2022, 316, 115218.	3.8	6
107	When chicken manure compost meets iron nanoparticles: an implication for the remediation of chlorophenothane-polluted riverine sediment. Environmental Science: Nano, 2022, 9, 1519-1529.	2.2	0