Chen Zhang

List of Publications by Year
in descending order

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		2802	7348
207	24,878	94	152
papers	citations	h-index	g-index

212	212	212	18749
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Hydroxyl radicals based advanced oxidation processes (AOPs) for remediation of soils contaminated with organic compounds: A review. Chemical Engineering Journal, 2016, 284, 582-598.	12.7	919
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.	20.2	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.	12.7	538
4	Ti3C2 Mxene/porous g-C3N4 interfacial Schottky junction for boosting spatial charge separation in photocatalytic H2O2 production. Applied Catalysis B: Environmental, 2019, 258, 117956.	20.2	485
5	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.	20.2	478
6	Biological technologies for the remediation of co-contaminated soil. Critical Reviews in Biotechnology, 2017, 37, 1062-1076.	9.0	423
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.	14.7	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.	8.0	418
9	Metal-organic frameworks for highly efficient heterogeneous Fenton-like catalysis. Coordination Chemistry Reviews, 2018, 368, 80-92.	18.8	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.	8.0	397
11	Atomic scale g-C3N4/Bi2WO6 2D/2D heterojunction with enhanced photocatalytic degradation of ibuprofen under visible light irradiation. Applied Catalysis B: Environmental, 2017, 209, 285-294.	20.2	390
12	Bioremediation mechanisms of combined pollution of PAHs and heavy metals by bacteria and fungi: A mini review. Bioresource Technology, 2017, 224, 25-33.	9.6	388
13	Evaluation methods for assessing effectiveness of in situ remediation of soil and sediment contaminated with organic pollutants and heavy metals. Environment International, 2017, 105, 43-55.	10.0	379
14	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.	11.3	343
15	Efficacy of carbonaceous nanocomposites for sorbing ionizable antibiotic sulfamethazine from aqueous solution. Water Research, 2016, 95, 103-112.	11.3	326
16	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.	12.7	320
17	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.	20.2	306
18	Semiconductor/boron nitride composites: Synthesis, properties, and photocatalysis applications. Applied Catalysis B: Environmental, 2018, 238, 6-18.	20.2	289

#	Article	IF	Citations
19	0D/2D interface engineering of carbon quantum dots modified Bi2WO6 ultrathin nanosheets with enhanced photoactivity for full spectrum light utilization and mechanism insight. Applied Catalysis B: Environmental, 2018, 222, 115-123.	20.2	288
20	Fabrication of novel magnetic MnFe2O4/bio-char composite and heterogeneous photo-Fenton degradation of tetracycline in near neutral pH. Chemosphere, 2019, 224, 910-921.	8.2	287
21	Rational design 2D/2D BiOBr/CDs/g-C3N4 Z-scheme heterojunction photocatalyst with carbon dots as solid-state electron mediators for enhanced visible and NIR photocatalytic activity: Kinetics, intermediates, and mechanism insight. Journal of Catalysis, 2019, 369, 469-481.	6.2	285
22	Investigating the adsorption behavior and the relative distribution of Cd2+ sorption mechanisms on biochars by different feedstock. Bioresource Technology, 2018, 261, 265-271.	9.6	278
23	Adsorption of phosphate from aqueous solution using iron-zirconium modified activated carbon nanofiber: Performance and mechanism. Journal of Colloid and Interface Science, 2017, 493, 17-23.	9.4	267
24	Molecular engineering of polymeric carbon nitride for highly efficient photocatalytic oxytetracycline degradation and H2O2 production. Applied Catalysis B: Environmental, 2020, 272, 118970.	20.2	263
25	â€œGold rushâ€•in modern science: Fabrication strategies and typical advanced applications of gold nanoparticles in sensing. Coordination Chemistry Reviews, 2018, 359, 1-31.	18.8	261
26	Biochar for environmental management: Mitigating greenhouse gas emissions, contaminant treatment, and potential negative impacts. Chemical Engineering Journal, 2019, 373, 902-922.	12.7	256
27	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.	6.7	249
28	Stabilized Nanoscale Zerovalent Iron Mediated Cadmium Accumulation and Oxidative Damage of Boehmeria nivea (L.) Gaudich Cultivated in Cadmium Contaminated Sediments. Environmental Science & Technology, 2017, 51, 11308-11316.	10.0	248
29	Nanoscale zero-valent iron coated with rhamnolipid as an effective stabilizer for immobilization of Cd and Pb in river sediments. Journal of Hazardous Materials, 2018, 341, 381-389.	12.4	248
30	Synthesis of surface molecular imprinted TiO2/graphene photocatalyst and its highly efficient photocatalytic degradation of target pollutant under visible light irradiation. Applied Surface Science, 2016, 390, 368-376.	6.1	242
31	Immobilization of Cd in river sediments by sodium alginate modified nanoscale zero-valent iron: Impact on enzyme activities and microbial community diversity. Water Research, 2016, 106, 15-25.	11.3	241
32	Multi-walled carbon nanotube/amino-functionalized MIL-53(Fe) composites: Remarkable adsorptive removal of antibiotics from aqueous solutions. Chemosphere, 2018, 210, 1061-1069.	8.2	241
33	Metal or metal-containing nanoparticle@MOF nanocomposites as a promising type of photocatalyst. Coordination Chemistry Reviews, 2019, 388, 63-78.	18.8	235
34	In Situ Grown Singleâ€Atom Cobalt on Polymeric Carbon Nitride with Bidentate Ligand for Efficient Photocatalytic Degradation of Refractory Antibiotics. Small, 2020, 16, e2001634.	10.0	235
35	Advantages and challenges of Tween 80 surfactant-enhanced technologies for the remediation of soils contaminated with hydrophobic organic compounds. Chemical Engineering Journal, 2017, 314, 98-113.	12.7	223
36	Current progress in biosensors for heavy metal ions based on DNAzymes/DNA molecules functionalized nanostructures: A review. Sensors and Actuators B: Chemical, 2016, 223, 280-294.	7.8	216

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37	Pyrolysis and reutilization of plant residues after phytoremediation of heavy metals contaminated sediments: For heavy metals stabilization and dye adsorption. Bioresource Technology, 2018, 253, 64-71.	9.6	214
38	Role of radical and non-radical pathway in activating persulfate for degradation of p-nitrophenol by sulfur-doped ordered mesoporous carbon. Chemical Engineering Journal, 2020, 384, 123304.	12.7	208
39	Dual optimization approach to Mo single atom dispersed g-C3N4 photocatalyst: Morphology and defect evolution. Applied Catalysis B: Environmental, 2022, 303, 120904.	20.2	203
40	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.	9.4	200
41	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.	11.3	198
42	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.	6.7	196
43	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.	12.7	195
44	Recent advances in biochar-based catalysts: Properties, applications and mechanisms for pollution remediation. Chemical Engineering Journal, 2019, 371, 380-403.	12.7	191
45	Cr(VI) removal from aqueous solution using biochar modified with Mg/Al-layered double hydroxide intercalated with ethylenediaminetetraacetic acid. Bioresource Technology, 2019, 276, 127-132.	9.6	191
46	Recent advances in sensors for tetracycline antibiotics and their applications. TrAC - Trends in Analytical Chemistry, 2018, 109, 260-274.	11.4	190
47	A review: Research progress on microplastic pollutants in aquatic environments. Science of the Total Environment, 2021, 766, 142572.	8.0	189
48	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.	6.7	188
49	Nonnegligible role of biomass types and its compositions on the formation of persistent free radicals in biochar: Insight into the influences on Fenton-like process. Chemical Engineering Journal, 2019, 361, 353-363.	12.7	184
50	Remediation of contaminated soils by enhanced nanoscale zero valent iron. Environmental Research, 2018, 163, 217-227.	7.5	181
51	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.	12.7	181
52	A visual application of gold nanoparticles: Simple, reliable and sensitive detection of kanamycin based on hydrogen-bonding recognition. Sensors and Actuators B: Chemical, 2017, 243, 946-954.	7.8	170
53	Mn doped magnetic biochar as persulfate activator for the degradation of tetracycline. Chemical Engineering Journal, 2020, 391, 123532.	12.7	169
54	Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. Coordination Chemistry Reviews, 2020, 409, 213220.	18.8	169

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55	Degradation of atrazine by a novel Fenton-like process and assessment the influence on the treated soil. Journal of Hazardous Materials, 2016, 312, 184-191.	12.4	168
56	Graphene oxide and carbon nitride nanosheets co-modified silver chromate nanoparticles with enhanced visible-light photoactivity and anti-photocorrosion properties towards multiple refractory pollutants degradation. Applied Catalysis B: Environmental, 2017, 209, 493-505.	20.2	158
57	Sorptive removal of ionizable antibiotic sulfamethazine from aqueous solution by graphene oxide-coated biochar nanocomposites: Influencing factors and mechanism. Chemosphere, 2017, 186, 414-421.	8.2	158
58	Adsorption behavior of engineered carbons and carbon nanomaterials for metal endocrine disruptors: Experiments and theoretical calculation. Chemosphere, 2019, 222, 184-194.	8.2	157
59	Performance and toxicity assessment of nanoscale zero valent iron particles in the remediation of contaminated soil: A review. Chemosphere, 2018, 210, 1145-1156.	8.2	149
60	Recent progress on metal-organic frameworks based- and derived-photocatalysts for water splitting. Chemical Engineering Journal, 2020, 383, 123196.	12.7	148
61	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.	12.4	146
62	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.	12.7	143
63	Strategies to improve metal organic frameworks photocatalystâ€™s performance for degradation of organic pollutants. Coordination Chemistry Reviews, 2018, 376, 449-466.	18.8	139
64	Recent advances in application of transition metal phosphides for photocatalytic hydrogen production. Chemical Engineering Journal, 2021, 405, 126547.	12.7	139
65	Global evolution of research on green energy and environmental technologies:A bibliometric study. Journal of Environmental Management, 2021, 297, 113382.	7.8	139
66	Progress and challenges of metal-organic frameworks-based materials for SR-AOPs applications in water treatment. Chemosphere, 2021, 263, 127672.	8.2	138
67	Electrochemical Aptasensor Based on Sulfurâ€“Nitrogen Codoped Ordered Mesoporous Carbon and Thymineâ€“Hg²⁺â€“Thymine Mismatch Structure for Hg²⁺ Detection. ACS Sensors, 2018, 3, 2566-2573.	7.8	137
68	Au nanoparticles decorated on activated coke via a facile preparation for efficient catalytic reduction of nitrophenols and azo dyes. Applied Surface Science, 2019, 473, 578-588.	6.1	134
69	Degradation of sulfamethazine by biochar-supported bimetallic oxide/persulfate system in natural water: Performance and reaction mechanism. Journal of Hazardous Materials, 2020, 398, 122816.	12.4	133
70	Mesoporous carbon nitride based biosensor for highly sensitive and selective analysis of phenol and catechol in compost bioremediation. Biosensors and Bioelectronics, 2014, 61, 519-525.	10.1	132
71	Advanced photocatalytic Fenton-like process over biomimetic hemin-Bi2WO6 with enhanced pH. Journal of the Taiwan Institute of Chemical Engineers, 2018, 93, 184-192.	5.3	132
72	Visible-light-driven photocatalytic degradation of sulfamethazine by surface engineering of carbon nitrideï¼šProperties, degradation pathway and mechanisms. Journal of Hazardous Materials, 2019, 380, 120815.	12.4	131

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73	Nanoporous Au-based chronocoulometric aptasensor for amplified detection of Pb2+ using DNAzyme modified with Au nanoparticles. Biosensors and Bioelectronics, 2016, 81, 61-67.	10.1	126
74	A multifunctional platform by controlling of carbon nitride in the core-shell structure: From design to construction, and catalysis applications. Applied Catalysis B: Environmental, 2019, 258, 117957.	20.2	126
75	Catalyst-free activation of permanganate under visible light irradiation for sulfamethazine degradation: Experiments and theoretical calculation. Water Research, 2021, 194, 116915.	11.3	124
76	Biochar facilitated the phytoremediation of cadmium contaminated sediments: Metal behavior, plant toxicity, and microbial activity. Science of the Total Environment, 2019, 666, 1126-1133.	8.0	122
77	Recent progress in sustainable technologies for adsorptive and reactive removal of sulfonamides. Chemical Engineering Journal, 2020, 389, 123423.	12.7	122
78	Effect of Phanerochaete chrysosporium inoculation on bacterial community and metal stabilization in lead-contaminated agricultural waste composting. Bioresource Technology, 2017, 243, 294-303.	9.6	121
79	Immobilized laccase on bentonite-derived mesoporous materials for removal of tetracycline. Chemosphere, 2019, 222, 865-871.	8.2	121
80	Synergistic removal of copper and tetracycline from aqueous solution by steam-activated bamboo-derived biochar. Journal of Hazardous Materials, 2020, 384, 121470.	12.4	121
81	Recent advances in photocatalytic degradation of plastics and plastic-derived chemicals. Journal of Materials Chemistry A, 2021, 9, 13402-13441.	10.3	118
82	Structure defined 2D Mo2C/2Dg-C3N4 Van der Waals heterojunction: Oriented charge flow in-plane and separation within the interface to collectively promote photocatalytic degradation of pharmaceutical and personal care products. Applied Catalysis B: Environmental, 2022, 301, 120749.	20.2	118
83	Nanoremediation of cadmium contaminated river sediments: Microbial response and organic carbon changes. Journal of Hazardous Materials, 2018, 359, 290-299.	12.4	110
84	Hierarchical porous carbon material restricted Au catalyst for highly catalytic reduction of nitroaromatics. Journal of Hazardous Materials, 2019, 380, 120864.	12.4	110
85	Covalent triazine frameworks for carbon dioxide capture. Journal of Materials Chemistry A, 2019, 7, 22848-22870.	10.3	106
86	Metal-organic frameworks and their derivatives as signal amplification elements for electrochemical sensing. Coordination Chemistry Reviews, 2020, 424, 213520.	18.8	105
87	Carbon nitride based photocatalysts for solar photocatalytic disinfection, can we go further?. Chemical Engineering Journal, 2021, 404, 126540.	12.7	105
88	Peroxydisulfate activation by sulfur-doped ordered mesoporous carbon: Insight into the intrinsic relationship between defects and 1O2 generation. Water Research, 2022, 221, 118797.	11.3	104
89	Cadmium-containing quantum dots: properties, applications, and toxicity. Applied Microbiology and Biotechnology, 2017, 101, 2713-2733.	3.6	102
90	Recent advances in two-dimensional nanomaterials for photocatalytic reduction of CO₂: insights into performance, theories and perspective. Journal of Materials Chemistry A, 2020, 8, 19156-19195.	10.3	101

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91	A novel SnS2â€“MgFe2O4/reduced graphene oxide flower-like photocatalyst: Solvothermal synthesis, characterization and improved visible-light photocatalytic activity. Catalysis Communications, 2015, 61, 62-66.	3.3	99
92	Influence of morphological and chemical features of biochar on hydrogen peroxide activation: implications on sulfamethazine degradation. RSC Advances, 2016, 6, 73186-73196.	3.6	98
93	Practical and regenerable electrochemical aptasensor based on nanoporous gold and thymine-Hg 2+ -thymine base pairs for Hg 2+ detection. Biosensors and Bioelectronics, 2017, 90, 542-548.	10.1	98
94	High adsorption of methylene blue by salicylic acidâ€“methanol modified steel converter slag and evaluation of its mechanism. Journal of Colloid and Interface Science, 2018, 515, 232-239.	9.4	96
95	Application of silver phosphate-based photocatalysts: Barriers and solutions. Chemical Engineering Journal, 2019, 366, 339-357.	12.7	96
96	Biochar-mediated Fenton-like reaction for the degradation of sulfamethazine: Role of environmentally persistent free radicals. Chemosphere, 2020, 255, 126975.	8.2	92
97	Heteroatom doping in metal-free carbonaceous materials for the enhancement of persulfate activation. Chemical Engineering Journal, 2022, 427, 131655.	12.7	90
98	Heavy metal-induced glutathione accumulation and its role in heavy metal detoxification in Phanerochaete chrysosporium. Applied Microbiology and Biotechnology, 2014, 98, 6409-6418.	3.6	86
99	Ferrous ion-tartaric acid chelation promoted calcium peroxide fenton-like reactions for simulated organic wastewater treatment. Journal of Cleaner Production, 2020, 268, 122253.	9.3	84
100	Effect of multi-walled carbon nanotubes on phytotoxicity of sediments contaminated by phenanthrene and cadmium. Chemosphere, 2017, 172, 449-458.	8.2	82
101	Tween 80 surfactant-enhanced bioremediation: toward a solution to the soil contamination by hydrophobic organic compounds. Critical Reviews in Biotechnology, 2018, 38, 17-30.	9.0	80
102	Chitosan-wrapped gold nanoparticles for hydrogen-bonding recognition and colorimetric determination of the antibiotic kanamycin. Mikrochimica Acta, 2017, 184, 2097-2105.	5.0	79
103	Salicylic acidâ€“methanol modified steel converter slag as heterogeneous Fenton-like catalyst for enhanced degradation of alachlor. Chemical Engineering Journal, 2017, 327, 686-693.	12.7	77
104	Cadmium immobilization in river sediment using stabilized nanoscale zero-valent iron with enhanced transport by polysaccharide coating. Journal of Environmental Management, 2018, 210, 191-200.	7.8	77
105	Mechanisms for rhamnolipids-mediated biodegradation of hydrophobic organic compounds. Science of the Total Environment, 2018, 634, 1-11.	8.0	75
106	Environment-friendly fullerene separation methods. Chemical Engineering Journal, 2017, 330, 134-145.	12.7	73
107	Plastid casein kinase 2 knockout reduces abscisic acid (ABA) sensitivity, thermotolerance, and expression of ABA- and heat-stress-responsive nuclear genes. Journal of Experimental Botany, 2014, 65, 4159-4175.	4.8	72
108	Lignocellulosic biomass carbonization for biochar production and characterization of biochar reactivity. Renewable and Sustainable Energy Reviews, 2022, 157, 112056.	16.4	71

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109	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.	12.7	70
110	Molecular engineering of donor-acceptor structured g-C3N4 for superior photocatalytic oxytetracycline degradation. Chemical Engineering Journal, 2022, 448, 137370.	12.7	70
111	Fabrication of water-compatible molecularly imprinted polymer based on Î²-cyclodextrin modified magnetic chitosan and its application for selective removal of bisphenol A from aqueous solution. Journal of the Taiwan Institute of Chemical Engineers, 2017, 77, 113-121.	5.3	69
112	Effects of swine manure composting by microbial inoculation: Heavy metal fractions, humic substances, and bacterial community metabolism. Journal of Hazardous Materials, 2021, 415, 125559.	12.4	68
113	Application of biochar for the remediation of polluted sediments. Journal of Hazardous Materials, 2021, 404, 124052.	12.4	67
114	Silver iodide decorated ZnSn(OH)6 hollow cube: Room-temperature preparation and application for highly efficient photocatalytic oxytetracycline degradation. Chemical Engineering Journal, 2021, 421, 129810.	12.7	67
115	Label free detection of lead using impedimetric sensor based on ordered mesoporous carbonâ€“gold nanoparticles and DNAzyme catalytic beacons. Talanta, 2016, 146, 641-647.	5.5	64
116	Chromosomal expression of CadR on Pseudomonas aeruginosa for the removal of Cd(II) from aqueous solutions. Science of the Total Environment, 2018, 636, 1355-1361.	8.0	64
117	PINK1/Parkin-mediated mitophagy alleviates chlorpyrifos-induced apoptosis in SH-SY5Y cells. Toxicology, 2015, 334, 72-80.	4.2	63
118	An overview on nitride and nitrogen-doped photocatalysts for energy and environmental applications. Composites Part B: Engineering, 2019, 172, 704-723.	12.0	61
119	Biochar in the 21st century: A data-driven visualization of collaboration, frontier identification, and future trend. Science of the Total Environment, 2022, 818, 151774.	8.0	60
120	Lead-induced oxidative stress and antioxidant response provide insight into the tolerance of Phanerochaete chrysosporium to lead exposure. Chemosphere, 2017, 187, 70-77.	8.2	58
121	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.	6.1	56
122	Sustainable hydrogen production by molybdenum carbide-based efficient photocatalysts: From properties to mechanism. Advances in Colloid and Interface Science, 2020, 279, 102144.	14.7	55
123	Recent advances in photoelectrocatalysis for environmental applications: Sensing, pollutants removal and microbial inactivation. Coordination Chemistry Reviews, 2022, 454, 214341.	18.8	55
124	Influence of surface functionalities of pyrogenic carbonaceous materials on the generation of reactive species towards organic contaminants: A review. Chemical Engineering Journal, 2021, 404, 127066.	12.7	54
125	Tailoring biochar for persulfate-based environmental catalysis: Impact of biomass feedstocks. Journal of Hazardous Materials, 2022, 424, 127663.	12.4	53
126	Periodate activated by manganese oxide/biochar composites for antibiotic degradation in aqueous system: Combined effects of active manganese species and biochar. Environmental Pollution, 2022, 300, 118939.	7.5	51

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127	Multiple optimization strategies for improving photocatalytic performance of the h-BN/flower-ring g-C3N4 heterostructures: Morphology engineering and internal electric field effect. Chemical Engineering Journal, 2022, 446, 137027.	12.7	51
128	Purification and biochemical characterization of two extracellular peroxidases from Phanerochaete chrysosporium responsible for lignin biodegradation. International Biodeterioration and Biodegradation, 2013, 85, 166-172.	3.9	50
129	Study of the degradation of methylene blue by semi-solid-state fermentation of agricultural residues with Phanerochaete chrysosporium and reutilization of fermented residues. Waste Management, 2015, 38, 424-430.	7.4	50
130	Selective removal of BPA from aqueous solution using molecularly imprinted polymers based on magnetic graphene oxide. RSC Advances, 2016, 6, 106201-106210.	3.6	49
131	Functionalized Biochar/Clay Composites for Reducing the Bioavailable Fraction of Arsenic and Cadmium in River Sediment. Environmental Toxicology and Chemistry, 2019, 38, 2337-2347.	4.3	48
132	Combined removal of di(2-ethylhexyl)phthalate (DEHP) and Pb(<scp>ii</scp>) by using a cutinase loaded nanoporous gold-polyethyleneimine adsorbent. RSC Advances, 2014, 4, 55511-55518.	3.6	47
133	Neonatal chlorpyrifos exposure induces loss of dopaminergic neurons in young adult rats. Toxicology, 2015, 336, 17-25.	4.2	47
134	Influence of surfactants on anaerobic digestion of waste activated sludge: acid and methane production and pollution removal. Critical Reviews in Biotechnology, 2019, 39, 746-757.	9.0	47
135	F dopants triggered active sites in bifunctional cobalt sulfide@nickel foam toward electrocatalytic overall water splitting in neutral and alkaline media: Experiments and theoretical calculations. Journal of Catalysis, 2020, 385, 129-139.	6.2	47
136	Cadmium induced oxalic acid secretion and its role in metal uptake and detoxification mechanisms in Phanerochaete chrysosporium. Applied Microbiology and Biotechnology, 2015, 99, 435-443.	3.6	44
137	Combined biological removal of methylene blue from aqueous solutions using rice straw and Phanerochaete chrysosporium. Applied Microbiology and Biotechnology, 2015, 99, 5247-5256.	3.6	44
138	Synthetic strategies and application of gold-based nanocatalysts for nitroaromatics reduction. Science of the Total Environment, 2019, 652, 93-116.	8.0	44
139	Synthesis and application of magnetic chlorapatite nanoparticles for zinc (II), cadmium (II) and lead (II) removal from water solutions. Journal of Colloid and Interface Science, 2017, 505, 824-835.	9.4	43
140	Metal-modified sludge-based biochar enhance catalytic capacity: Characteristics and mechanism. Journal of Environmental Management, 2021, 284, 112113.	7.8	43
141	Synthesis and Application of Modified Zero-Valent Iron Nanoparticles for Removal of Hexavalent Chromium from Wastewater. Water, Air, and Soil Pollution, 2015, 226, 1.	2.4	42
142	The effect of HMGB1 on sub-toxic chlorpyrifos exposure-induced neuroinflammation in amygdala of neonatal rats. Toxicology, 2015, 338, 95-103.	4.2	40
143	Effects of dimethyl sulfoxide on the morphology and viability of primary cultured neurons and astrocytes. Brain Research Bulletin, 2017, 128, 34-39.	3.0	39
144	Colorimetric determination of mercury(II) using gold nanoparticles and double ligand exchange. Mikrochimica Acta, 2019, 186, 31.	5.0	38

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145	Metal bioaccumulation, oxidative stress and antioxidant defenses in Phanerochaete chrysosporium response to Cd exposure. Ecological Engineering, 2016, 87, 150-156.	3.6	37
146	Organic matters removal from landfill leachate by immobilized Phanerochaete chrysosporium loaded with graphitic carbon nitride under visible light irradiation. Chemosphere, 2017, 184, 1071-1079.	8.2	36
147	The rapid degradation of bisphenol A induced by the response of indigenous bacterial communities in sediment. Applied Microbiology and Biotechnology, 2017, 101, 3919-3928.	3.6	34
148	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.	5.3	34
149	Roles of multiwall carbon nanotubes in phytoremediation: cadmium uptake and oxidative burst in Boehmeria nivea (L.) Gaudich. Environmental Science: Nano, 2019, 6, 851-862.	4.3	34
150	Sensitive and selective detection of mercury ions based on papain and 2,6-pyridinedicarboxylic acid functionalized gold nanoparticles. RSC Advances, 2016, 6, 3259-3266.	3.6	33
151	Fabrication of an innovative designed TiO2 nanosheets/CdSe/polyaniline/graphene quaternary composite and its application as in-situ photocathodic protection coatings on 304SS. Journal of Alloys and Compounds, 2020, 822, 153685.	5.5	33
152	Sensitive impedimetric biosensor based on duplex-like DNA scaffolds and ordered mesoporous carbon nitride for silver(<scp>i</scp>) ion detection. Analyst, The, 2014, 139, 6529-6535.	3.5	32
153	Molecular docking simulation on the interactions of laccase from Trametes versicolor with nonylphenol and octylphenol isomers. Bioprocess and Biosystems Engineering, 2018, 41, 331-343.	3.4	30
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155	Mechanism of removal and degradation characteristics of dicamba by biochar prepared from Fe-modified sludge. Journal of Environmental Management, 2021, 299, 113602.	7.8	29
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