

Sha Chen

List of Publications by Year in descending order

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158
papers

18,896
citations

6254

80
h-index

12272

133
g-index

158
all docs

158
docs citations

158
times ranked

16079
citing authors

#	ARTICLE	IF	CITATIONS
1	Bioremediation of soils contaminated with polycyclic aromatic hydrocarbons, petroleum, pesticides, chlorophenols and heavy metals by composting: Applications, microbes and future research needs. <i>Biotechnology Advances</i> , 2015, 33, 745-755.	11.7	706
2	Recent advances in covalent organic frameworks (COFs) as a smart sensing material. <i>Chemical Society Reviews</i> , 2019, 48, 5266-5302.	38.1	630
3	Recent progress in covalent organic framework thin films: fabrications, applications and perspectives. <i>Chemical Society Reviews</i> , 2019, 48, 488-516.	38.1	564
4	Highly porous carbon nitride by supramolecular preassembly of monomers for photocatalytic removal of sulfamethazine under visible light driven. <i>Applied Catalysis B: Environmental</i> , 2018, 220, 202-210.	20.2	478
5	BiOX (X = Cl, Br, I) photocatalytic nanomaterials: Applications for fuels and environmental management. <i>Advances in Colloid and Interface Science</i> , 2018, 254, 76-93.	14.7	422
6	Fabrication of CuS/BiVO ₄ (0 4 0) binary heterojunction photocatalysts with enhanced photocatalytic activity for Ciprofloxacin degradation and mechanism insight. <i>Chemical Engineering Journal</i> , 2019, 358, 891-902.	12.7	401
7	Facile Hydrothermal Synthesis of Z-Scheme Bi ₂ Fe ₄ O ₉ /Bi ₂ WO ₆ Heterojunction Photocatalyst with Enhanced Visible Light Photocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 18824-18836.	8.0	397
8	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. <i>Water Research</i> , 2020, 184, 116200.	11.3	343
9	Synergistic effect of artificial enzyme and 2D nano-structured Bi ₂ WO ₆ for eco-friendly and efficient biomimetic photocatalysis. <i>Applied Catalysis B: Environmental</i> , 2019, 250, 52-62.	20.2	340
10	Degradation of naphthalene with magnetic bio-char activate hydrogen peroxide: Synergism of bio-char and Fe-Mn binary oxides. <i>Water Research</i> , 2019, 160, 238-248.	11.3	335
11	Precipitation, adsorption and rhizosphere effect: The mechanisms for Phosphate-induced Pb immobilization in soils—A review. <i>Journal of Hazardous Materials</i> , 2017, 339, 354-367.	12.4	327
12	Efficacy of carbonaceous nanocomposites for sorbing ionizable antibiotic sulfamethazine from aqueous solution. <i>Water Research</i> , 2016, 95, 103-112.	11.3	326
13	Fabrication of novel magnetic MnFe ₂ O ₄ /bio-char composite and heterogeneous photo-Fenton degradation of tetracycline in near neutral pH. <i>Chemosphere</i> , 2019, 224, 910-921.	8.2	287
14	Combination of Fenton processes and biotreatment for wastewater treatment and soil remediation. <i>Science of the Total Environment</i> , 2017, 574, 1599-1610.	8.0	282
15	The effects of rice straw biochar on indigenous microbial community and enzymes activity in heavy metal-contaminated sediment. <i>Chemosphere</i> , 2017, 174, 545-553.	8.2	267
16	Graphitic Carbon Nitride-Based Heterojunction Photoactive Nanocomposites: Applications and Mechanism Insight. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21035-21055.	8.0	266
17	Gold in modern science: Fabrication strategies and typical advanced applications of gold nanoparticles in sensing. <i>Coordination Chemistry Reviews</i> , 2018, 359, 1-31.	18.8	261
18	Semiconductor-based photocatalysts for photocatalytic and photoelectrochemical water splitting: will we stop with photocorrosion?. <i>Journal of Materials Chemistry A</i> , 2020, 8, 2286-2322.	10.3	251

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19	In Situ Grown Ag ₁₂ O ₁₇ Cl ₂ Heterojunction Photocatalysts for Visible Light Degradation of Sulfamethazine: Efficiency, Pathway, and Mechanism. ACS Sustainable Chemistry and Engineering, 2018, 6, 4174-4184.	6.7	249
20	Stabilized Nanoscale Zerovalent Iron Mediated Cadmium Accumulation and Oxidative Damage of <i>Boehmeria nivea</i> (L.) Gaudich Cultivated in Cadmium Contaminated Sediments. Environmental Science & Technology, 2017, 51, 11308-11316.	10.0	248
21	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
22	Black Phosphorus, a Rising Star 2D Nanomaterial in the Post-Graphene Era: Synthesis, Properties, Modifications, and Photocatalysis Applications. Small, 2019, 15, e1804565.	10.0	244
23	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
24	In Situ Grown Single-Atom Cobalt on Polymeric Carbon Nitride with Bidentate Ligand for Efficient Photocatalytic Degradation of Refractory Antibiotics. Small, 2020, 16, e2001634.	10.0	235
25	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
26	In-situ deposition of gold nanoparticles onto polydopamine-decorated g-C ₃ N ₄ for highly efficient reduction of nitroaromatics in environmental water purification. Journal of Colloid and Interface Science, 2019, 534, 357-369.	9.4	200
27	Microplastics and nanoplastics in the environment: Macroscopic transport and effects on creatures. Journal of Hazardous Materials, 2021, 407, 124399.	12.4	200
28	Efficient degradation of sulfamethazine in simulated and real wastewater at slightly basic pH values using Co-SAM-SCS /H ₂ O ₂ Fenton-like system. Water Research, 2018, 138, 7-18.	11.3	198
29	Rational Design of Carbon-Doped Carbon Nitride/Bi ₁₂ O ₁₇ Cl ₂ 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
30	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
31	Recent advances in sensors for tetracycline antibiotics and their applications. TrAC - Trends in Analytical Chemistry, 2018, 109, 260-274.	11.4	190
32	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
33	Microplastic pollution in surface sediments of urban water areas in Changsha, China: Abundance, composition, surface textures. Marine Pollution Bulletin, 2018, 136, 414-423.	5.0	183
34	Remediation of contaminated soils by enhanced nanoscale zero valent iron. Environmental Research, 2018, 163, 217-227.	7.5	181
35	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
36	Effects of calcium at toxic concentrations of cadmium in plants. Planta, 2017, 245, 863-873.	3.2	169

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37	Degradation of atrazine by a novel Fenton-like process and assessment the influence on the treated soil. <i>Journal of Hazardous Materials</i> , 2016, 312, 184-191.	12.4	168
38	Spinel ferrites (MFe ₂ O ₄): Synthesis, improvement and catalytic application in environment and energy field. <i>Advances in Colloid and Interface Science</i> , 2021, 294, 102486.	14.7	159
39	Sorptive removal of ionizable antibiotic sulfamethazine from aqueous solution by graphene oxide-coated biochar nanocomposites: Influencing factors and mechanism. <i>Chemosphere</i> , 2017, 186, 414-421.	8.2	158
40	Remediation of contaminated soils by biotechnology with nanomaterials: bio-behavior, applications, and perspectives. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 455-468.	9.0	158
41	Adsorption behavior of engineered carbons and carbon nanomaterials for metal endocrine disruptors: Experiments and theoretical calculation. <i>Chemosphere</i> , 2019, 222, 184-194.	8.2	157
42	Unravelling the interfacial charge migration pathway at atomic level in 2D/2D interfacial Schottky heterojunction for visible-light-driven molecular oxygen activation. <i>Applied Catalysis B: Environmental</i> , 2020, 266, 118650.	20.2	150
43	Performance and toxicity assessment of nanoscale zero valent iron particles in the remediation of contaminated soil: A review. <i>Chemosphere</i> , 2018, 210, 1145-1156.	8.2	149
44	Preparation of water-compatible molecularly imprinted thiol-functionalized activated titanium dioxide: Selective adsorption and efficient photodegradation of 2, 4-dinitrophenol in aqueous solution. <i>Journal of Hazardous Materials</i> , 2018, 346, 113-123.	12.4	146
45	Peroxidase-Like Activity of Smart Nanomaterials and Their Advanced Application in Colorimetric Glucose Biosensors. <i>Small</i> , 2019, 15, e1900133.	10.0	145
46	Recent advances in conjugated microporous polymers for photocatalysis: designs, applications, and prospects. <i>Journal of Materials Chemistry A</i> , 2020, 8, 6434-6470.	10.3	140
47	Rhamnolipid stabilized nano-chlorapatite: Synthesis and enhancement effect on Pb-and Cd-immobilization in polluted sediment. <i>Journal of Hazardous Materials</i> , 2018, 343, 332-339.	12.4	139
48	Progress and challenges of metal-organic frameworks-based materials for SR-AOPs applications in water treatment. <i>Chemosphere</i> , 2021, 263, 127672.	8.2	138
49	Electrochemical Aptasensor Based on Sulfur-Nitrogen Codoped Ordered Mesoporous Carbon and Thymine-Hg ²⁺ -Thymine Mismatch Structure for Hg ²⁺ Detection. <i>ACS Sensors</i> , 2018, 3, 2566-2573.	7.8	137
50	Degradation of sulfamethazine by biochar-supported bimetallic oxide/persulfate system in natural water: Performance and reaction mechanism. <i>Journal of Hazardous Materials</i> , 2020, 398, 122816.	12.4	133
51	Unravelling the role of dual quantum dots cocatalyst in OD/2D heterojunction photocatalyst for promoting photocatalytic organic pollutant degradation. <i>Chemical Engineering Journal</i> , 2020, 396, 125343.	12.7	132
52	Visible-light-driven photocatalytic degradation of sulfamethazine by surface engineering of carbon nitride: Properties, degradation pathway and mechanisms. <i>Journal of Hazardous Materials</i> , 2019, 380, 120815.	12.4	131
53	Remediation of lead-contaminated sediment by biochar-supported nano-chlorapatite: Accompanied with the change of available phosphorus and organic matters. <i>Journal of Hazardous Materials</i> , 2018, 348, 109-116.	12.4	128
54	Nanoporous Au-based chronocoulometric aptasensor for amplified detection of Pb ²⁺ using DNAzyme modified with Au nanoparticles. <i>Biosensors and Bioelectronics</i> , 2016, 81, 61-67.	10.1	126

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55	Catalyst-free activation of permanganate under visible light irradiation for sulfamethazine degradation: Experiments and theoretical calculation. <i>Water Research</i> , 2021, 194, 116915.	11.3	124
56	Interactions between microplastics/nanoplastics and vascular plants. <i>Environmental Pollution</i> , 2021, 290, 117999.	7.5	123
57	Biochar facilitated the phytoremediation of cadmium contaminated sediments: Metal behavior, plant toxicity, and microbial activity. <i>Science of the Total Environment</i> , 2019, 666, 1126-1133.	8.0	122
58	Silver-based semiconductor Z-scheme photocatalytic systems for environmental purification. <i>Journal of Hazardous Materials</i> , 2020, 390, 122128.	12.4	122
59	Effect of <i>Phanerochaete chrysosporium</i> inoculation on bacterial community and metal stabilization in lead-contaminated agricultural waste composting. <i>Bioresource Technology</i> , 2017, 243, 294-303.	9.6	121
60	Immobilized laccase on bentonite-derived mesoporous materials for removal of tetracycline. <i>Chemosphere</i> , 2019, 222, 865-871.	8.2	121
61	Polyoxometalate@Metal-Organic Framework Composites as Effective Photocatalysts. <i>ACS Catalysis</i> , 2021, 11, 13374-13396.	11.2	121
62	Synthesis and evaluation of a new class of stabilized nano-chlorapatite for Pb immobilization in sediment. <i>Journal of Hazardous Materials</i> , 2016, 320, 278-288.	12.4	118
63	Nanoscale zero-valent iron assisted phytoremediation of Pb in sediment: Impacts on metal accumulation and antioxidative system of <i>Lolium perenne</i> . <i>Ecotoxicology and Environmental Safety</i> , 2018, 153, 229-237.	6.0	118
64	Bioconversion of oxygen-pretreated Kraft lignin to microbial lipid with oleaginous <i>Rhodococcus opacus</i> DSM 1069. <i>Green Chemistry</i> , 2015, 17, 2784-2789.	9.0	117
65	Nanoremediation of cadmium contaminated river sediments: Microbial response and organic carbon changes. <i>Journal of Hazardous Materials</i> , 2018, 359, 290-299.	12.4	110
66	Hierarchical porous carbon material restricted Au catalyst for highly catalytic reduction of nitroaromatics. <i>Journal of Hazardous Materials</i> , 2019, 380, 120864.	12.4	110
67	Covalent triazine frameworks for carbon dioxide capture. <i>Journal of Materials Chemistry A</i> , 2019, 7, 22848-22870.	10.3	106
68	Facet-Engineered Surface and Interface Design of Monoclinic Scheelite Bismuth Vanadate for Enhanced Photocatalytic Performance. <i>ACS Catalysis</i> , 2020, 10, 1024-1059.	11.2	105
69	A fantastic two-dimensional MoS ₂ material based on the inert basal planes activation: Electronic structure, synthesis strategies, catalytic active sites, catalytic and electronics properties. <i>Coordination Chemistry Reviews</i> , 2019, 399, 213020.	18.8	101
70	Recent advances in two-dimensional nanomaterials for photocatalytic reduction of CO ₂ : insights into performance, theories and perspective. <i>Journal of Materials Chemistry A</i> , 2020, 8, 19156-19195.	10.3	101
71	Graphdiyne: A Rising Star of Electrocatalyst Support for Energy Conversion. <i>Advanced Energy Materials</i> , 2020, 10, 2000177.	19.5	100
72	Influence of morphological and chemical features of biochar on hydrogen peroxide activation: implications on sulfamethazine degradation. <i>RSC Advances</i> , 2016, 6, 73186-73196.	3.6	98

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73	Practical and regenerable electrochemical aptasensor based on nanoporous gold and thymine-Hg ²⁺ -thymine base pairs for Hg ²⁺ detection. <i>Biosensors and Bioelectronics</i> , 2017, 90, 542-548.	10.1	98
74	Decontamination of lead and tetracycline from aqueous solution by a promising carbonaceous nanocomposite: Interaction and mechanisms insight. <i>Bioresource Technology</i> , 2019, 283, 277-285.	9.6	98
75	Cobalt Single Atoms Anchored on Oxygen-Doped Tubular Carbon Nitride for Efficient Peroxymonosulfate Activation: Simultaneous Coordination Structure and Morphology Modulation. <i>Angewandte Chemie - International Edition</i> , 2022, 61, .	13.8	97
76	High adsorption of methylene blue by salicylic acid-methanol modified steel converter slag and evaluation of its mechanism. <i>Journal of Colloid and Interface Science</i> , 2018, 515, 232-239.	9.4	96
77	Distorted polymeric carbon nitride via carriers transfer bridges with superior photocatalytic activity for organic pollutants oxidation and hydrogen production under visible light. <i>Journal of Hazardous Materials</i> , 2020, 386, 121947.	12.4	95
78	Activation of persulfate by graphitized biochar for sulfamethoxazole removal: The roles of graphitic carbon structure and carbonyl group. <i>Journal of Colloid and Interface Science</i> , 2020, 577, 419-430.	9.4	94
79	Biochar-mediated Fenton-like reaction for the degradation of sulfamethazine: Role of environmentally persistent free radicals. <i>Chemosphere</i> , 2020, 255, 126975.	8.2	92
80	Ultrathin oxygen-vacancy abundant WO ₃ decorated monolayer Bi ₂ WO ₆ nanosheet: A 2D/2D heterojunction for the degradation of Ciprofloxacin under visible and NIR light irradiation. <i>Journal of Colloid and Interface Science</i> , 2019, 556, 557-567.	9.4	89
81	Research progress of microplastics in soil-plant system: Ecological effects and potential risks. <i>Science of the Total Environment</i> , 2022, 812, 151487.	8.0	87
82	A novel biosorbent prepared by immobilized <i>Bacillus licheniformis</i> for lead removal from wastewater. <i>Chemosphere</i> , 2018, 200, 173-179.	8.2	81
83	Tween 80 surfactant-enhanced bioremediation: toward a solution to the soil contamination by hydrophobic organic compounds. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 17-30.	9.0	80
84	Chitosan-wrapped gold nanoparticles for hydrogen-bonding recognition and colorimetric determination of the antibiotic kanamycin. <i>Mikrochimica Acta</i> , 2017, 184, 2097-2105.	5.0	79
85	Cadmium immobilization in river sediment using stabilized nanoscale zero-valent iron with enhanced transport by polysaccharide coating. <i>Journal of Environmental Management</i> , 2018, 210, 191-200.	7.8	77
86	Difunctional chitosan-stabilized Fe/Cu bimetallic nanoparticles for removal of hexavalent chromium wastewater. <i>Science of the Total Environment</i> , 2018, 644, 1181-1189.	8.0	76
87	Hybrid architectures based on noble metals and carbon-based dots nanomaterials: A review of recent progress in synthesis and applications. <i>Chemical Engineering Journal</i> , 2020, 399, 125743.	12.7	70
88	Chromosomal expression of CadR on <i>Pseudomonas aeruginosa</i> for the removal of Cd(II) from aqueous solutions. <i>Science of the Total Environment</i> , 2018, 636, 1355-1361.	8.0	64
89	Microplastics retention by reeds in freshwater environment. <i>Science of the Total Environment</i> , 2021, 790, 148200.	8.0	63
90	Layered double hydroxide based materials applied in persulfate based advanced oxidation processes: Property, mechanism, application and perspectives. <i>Journal of Hazardous Materials</i> , 2022, 424, 127612.	12.4	62

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91	Megamerger of biosorbents and catalytic technologies for the removal of heavy metals from wastewater: Preparation, final disposal, mechanism and influencing factors. <i>Journal of Environmental Management</i> , 2020, 261, 109879.	7.8	60
92	Biochar in the 21st century: A data-driven visualization of collaboration, frontier identification, and future trend. <i>Science of the Total Environment</i> , 2022, 818, 151774.	8.0	60
93	Lead-induced oxidative stress and antioxidant response provide insight into the tolerance of <i>Phanerochaete chrysosporium</i> to lead exposure. <i>Chemosphere</i> , 2017, 187, 70-77.	8.2	58
94	Strategy to improve gold nanoparticles loading efficiency on defect-free high silica ZSM-5 zeolite for the reduction of nitrophenols. <i>Chemosphere</i> , 2020, 256, 127083.	8.2	57
95	Sustainable hydrogen production by molybdenum carbide-based efficient photocatalysts: From properties to mechanism. <i>Advances in Colloid and Interface Science</i> , 2020, 279, 102144.	14.7	55
96	Effects of exogenous calcium and spermidine on cadmium stress moderation and metal accumulation in <i>Boehmeria nivea</i> (L.) Gaudich. <i>Environmental Science and Pollution Research</i> , 2016, 23, 8699-8708.	5.3	54
97	White rot fungi and advanced combined biotechnology with nanomaterials: promising tools for endocrine-disrupting compounds biotransformation. <i>Critical Reviews in Biotechnology</i> , 2018, 38, 671-689.	9.0	54
98	MXenes as Superexcellent Support for Confining Single Atom: Properties, Synthesis, and Electrocatalytic Applications. <i>Small</i> , 2021, 17, e2007113.	10.0	52
99	Immobilizing laccase on kaolinite and its application in treatment of malachite green effluent with the coexistence of Cd (ĐŸ). <i>Chemosphere</i> , 2019, 217, 843-850.	8.2	51
100	Study of the degradation of methylene blue by semi-solid-state fermentation of agricultural residues with <i>Phanerochaete chrysosporium</i> and reutilization of fermented residues. <i>Waste Management</i> , 2015, 38, 424-430.	7.4	50
101	Chloro-phosphate impregnated biochar prepared by co-precipitation for the lead, cadmium and copper synergic scavenging from aqueous solution. <i>Bioresource Technology</i> , 2019, 293, 122102.	9.6	50
102	Surface and interface engineering of two-dimensional bismuth-based photocatalysts for ambient molecule activation. <i>Journal of Materials Chemistry A</i> , 2021, 9, 196-233.	10.3	50
103	Recent progress of noble metals with tailored features in catalytic oxidation for organic pollutants degradation. <i>Journal of Hazardous Materials</i> , 2022, 422, 126950.	12.4	49
104	Megamerger of MOFs and g-C ₃ N ₄ for energy and environment applications: upgrading the framework stability and performance. <i>Journal of Materials Chemistry A</i> , 2020, 8, 17883-17906.	10.3	48
105	Combined removal of di(2-ethylhexyl)phthalate (DEHP) and Pb(II) by using a cutinase loaded nanoporous gold-polyethyleneimine adsorbent. <i>RSC Advances</i> , 2014, 4, 55511-55518.	3.6	47
106	Multiple charge-carrier transfer channels of Z-scheme bismuth tungstate-based photocatalyst for tetracycline degradation: Transformation pathways and mechanism. <i>Journal of Colloid and Interface Science</i> , 2019, 555, 770-782.	9.4	45
107	Nanoscale zerovalent iron, carbon nanotubes and biochar facilitated the phytoremediation of cadmium contaminated sediments by changing cadmium fractions, sediments properties and bacterial community structure. <i>Ecotoxicology and Environmental Safety</i> , 2021, 208, 111510.	6.0	45
108	Synthetic strategies and application of gold-based nanocatalysts for nitroaromatics reduction. <i>Science of the Total Environment</i> , 2019, 652, 93-116.	8.0	44

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109	Synthesis and application of magnetic chlorapatite nanoparticles for zinc (II), cadmium (II) and lead (II) removal from water solutions. <i>Journal of Colloid and Interface Science</i> , 2017, 505, 824-835.	9.4	43
110	Deciphering the Fenton-reaction-aid lignocellulose degradation pattern by <i>Phanerochaete chrysosporium</i> with ferroferric oxide nanomaterials: Enzyme secretion, straw humification and structural alteration. <i>Bioresource Technology</i> , 2019, 276, 335-342.	9.6	41
111	Composting of 4-nonylphenol-contaminated river sediment with inocula of <i>Phanerochaete chrysosporium</i> . <i>Bioresource Technology</i> , 2016, 221, 47-54.	9.6	40
112	Enhanced bioremediation of 4-nonylphenol and cadmium co-contaminated sediment by composting with <i>Phanerochaete chrysosporium</i> inocula. <i>Bioresource Technology</i> , 2018, 250, 625-634.	9.6	40
113	Strategies for enhancing the perylene diimide photocatalytic degradation activity: method, effect factor, and mechanism. <i>Environmental Science: Nano</i> , 2021, 8, 602-618.	4.3	39
114	Jointed Synchronous Photocatalytic Oxidation and Chromate Reduction Enabled by the Defect Distribution upon BiVO ₄ : Mechanism Insight and Toxicity Assessment. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 17586-17598.	8.0	39
115	Colorimetric determination of mercury(II) using gold nanoparticles and double ligand exchange. <i>Mikrochimica Acta</i> , 2019, 186, 31.	5.0	38
116	Design of an amorphous and defect-rich CoMoOF layer as a pH-universal catalyst for the hydrogen evolution reaction. <i>Journal of Materials Chemistry A</i> , 2021, 9, 8730-8739.	10.3	38
117	Topological transformation of bismuth vanadate into bismuth oxychloride: Band-gap engineering of ultrathin nanosheets with oxygen vacancies for efficient molecular oxygen activation. <i>Chemical Engineering Journal</i> , 2021, 420, 127573.	12.7	37
118	Phytoremediation of poly- and perfluoroalkyl substances: A review on aquatic plants, influencing factors, and phytotoxicity. <i>Journal of Hazardous Materials</i> , 2021, 418, 126314.	12.4	36
119	Recent development of advanced biotechnology for wastewater treatment. <i>Critical Reviews in Biotechnology</i> , 2020, 40, 99-118.	9.0	35
120	The rapid degradation of bisphenol A induced by the response of indigenous bacterial communities in sediment. <i>Applied Microbiology and Biotechnology</i> , 2017, 101, 3919-3928.	3.6	34
121	Roles of multiwall carbon nanotubes in phytoremediation: cadmium uptake and oxidative burst in <i>Boehmeria nivea</i> (L.) Gaudich. <i>Environmental Science: Nano</i> , 2019, 6, 851-862.	4.3	34
122	Sensitive and selective detection of mercury ions based on papain and 2,6-pyridinedicarboxylic acid functionalized gold nanoparticles. <i>RSC Advances</i> , 2016, 6, 3259-3266.	3.6	33
123	Growth, metabolism of <i>Phanerochaete chrysosporium</i> and route of lignin degradation in response to cadmium stress in solid-state fermentation. <i>Chemosphere</i> , 2015, 138, 560-567.	8.2	30
124	Metallic Co and crystalline Co-Mo oxides supported on graphite felt for bifunctional electrocatalytic hydrogen evolution and urea oxidation. <i>Journal of Colloid and Interface Science</i> , 2022, 612, 413-423.	9.4	30
125	Antioxidant activity of carboxymethyl (1 \rightarrow 3)- β -D-glucan (from the sclerotium of <i>Poria cocos</i>) sulfate (in) Tj ETQq1 1.0.784314 rgBT /Ov 7.5 29	7.5	29
126	A novel Fe-hemin-metal organic frameworks supported on chitosan-reduced graphene oxide for real-time monitoring of H ₂ O ₂ released from living cells. <i>Analytica Chimica Acta</i> , 2020, 1128, 90-98.	5.4	28

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127	Photocatalytic degradation of phenol by the heterogeneous Fe ₃ O ₄ nanoparticles and oxalate complex system. RSC Advances, 2014, 4, 40828-40836.	3.6	27
128	Effects of multi-walled carbon nanotubes on metal transformation and natural organic matters in riverine sediment. Journal of Hazardous Materials, 2019, 374, 459-468.	12.4	27
129	Carbon Dots-Decorated Carbon-Based Metal-Free Catalysts for Electrochemical Energy Storage. Small, 2021, 17, e2002998.	10.0	27
130	Journal of Zhejiang University: Science		
131	Interface modulation of Mo ₂ C@foam nickel via MoS ₂ quantum dots for the electrochemical oxygen evolution reaction. Journal of Materials Chemistry A, 2020, 8, 15074-15085.	10.3	25
132	Cobalt Single Atoms Anchored on Oxygen-Doped Tubular Carbon Nitride for Efficient Peroxymonosulfate Activation: Simultaneous Coordination Structure and Morphology Modulation. Angewandte Chemie, 2022, 134, .	2.0	25
133	Responses of microbial carbon metabolism and function diversity induced by complex fungal enzymes in lignocellulosic waste composting. Science of the Total Environment, 2018, 643, 539-547.	8.0	24
134	Uniform polypyrrole electrodeposition triggered by phytic acid-guided interface engineering for high energy density flexible supercapacitor. Journal of Colloid and Interface Science, 2022, 611, 356-365.	9.4	24
135	Stabilization of lead in polluted sediment based on an eco-friendly amendment strategy: Microenvironment response mechanism. Journal of Hazardous Materials, 2021, 415, 125534.	12.4	23
136	Environmentally persistent free radicals in bismuth-based metal-organic layers derivatives: Photodegradation of pollutants and mechanism unravelling. Chemical Engineering Journal, 2022, 430, 133026.	12.7	23
137	Titanium dioxide nanotube arrays with silane coupling agent modification for heavy metal reduction and persistent organic pollutant degradation. New Journal of Chemistry, 2017, 41, 4377-4389.	2.8	22
138	Manganese-enhanced degradation of lignocellulosic waste by Phanerochaete chrysosporium: evidence of enzyme activity and gene transcription. Applied Microbiology and Biotechnology, 2017, 101, 6541-6549.	3.6	21
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