

Danlian Huang

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213
papers

20,051
citations

89
h-index

137
g-index

216
ext. papers

25,539
ext. citations

13.3
avg, IF

7.35
L-index

#	Paper	IF	Citations
213	Hydroxyl radicals based advanced oxidation processes (AOPs) for remediation of soils contaminated with organic compounds: A review. <i>Chemical Engineering Journal</i> , 2016 , 284, 582-598	14.7	658
212	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, 745-55	17.8	559
211	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	21.8	394
210	Recent progress in covalent organic framework thin films: fabrications, applications and perspectives. <i>Chemical Society Reviews</i> , 2019 , 48, 488-516	58.5	390
209	Boron nitride quantum dots decorated ultrathin porous g-C ₃ N ₄ : Intensified exciton dissociation and charge transfer for promoting visible-light-driven molecular oxygen activation. <i>Applied Catalysis B: Environmental</i> , 2019 , 245, 87-99	21.8	378
208	Construction of iodine vacancy-rich BiOI/Ag@AgI Z-scheme heterojunction photocatalysts for visible-light-driven tetracycline degradation: Transformation pathways and mechanism insight. <i>Chemical Engineering Journal</i> , 2018 , 349, 808-821	14.7	354
207	Recent advances in covalent organic frameworks (COFs) as a smart sensing material. <i>Chemical Society Reviews</i> , 2019 , 48, 5266-5302	58.5	326
206	Selective prepared carbon nanomaterials for advanced photocatalytic application in environmental pollutant treatment and hydrogen production. <i>Applied Catalysis B: Environmental</i> , 2018 , 239, 408-424	21.8	300
205	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	14.3	288
204	Facile Hydrothermal Synthesis of Z-Scheme BiFeO/BiWO Heterojunction Photocatalyst with Enhanced Visible Light Photocatalytic Activity. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 18824-18836	9.5	284
203	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	14.7	281
202	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	21.8	273
201	Ti ₃ C ₂ Mxene/porous g-C ₃ N ₄ interfacial Schottky junction for boosting spatial charge separation in photocatalytic H ₂ O ₂ production. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117956	21.8	269
200	Efficacy of carbonaceous nanocomposites for sorbing ionizable antibiotic sulfamethazine from aqueous solution. <i>Water Research</i> , 2016 , 95, 103-12	12.5	260
199	Metal-organic frameworks for highly efficient heterogeneous Fenton-like catalysis. <i>Coordination Chemistry Reviews</i> , 2018 , 368, 80-92	23.2	258
198	Covalent organic framework photocatalysts: structures and applications. <i>Chemical Society Reviews</i> , 2020 , 49, 4135-4165	58.5	243
197	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	12.8	242

196	Combination of Fenton processes and biotreatment for wastewater treatment and soil remediation. <i>Science of the Total Environment</i> , 2017 , 574, 1599-1610	10.2	236
195	Sulfur doped carbon quantum dots loaded hollow tubular g-C ₃ N ₄ as novel photocatalyst for destruction of <i>Escherichia coli</i> and tetracycline degradation under visible light. <i>Chemical Engineering Journal</i> , 2019 , 378, 122132	14.7	224
194	Megamerger in photocatalytic field: 2D g-C ₃ N ₄ nanosheets serve as support of 0D nanomaterials for improving photocatalytic performance. <i>Applied Catalysis B: Environmental</i> , 2019 , 240, 153-173	21.8	221
193	Semiconductor/boron nitride composites: Synthesis, properties, and photocatalysis applications. <i>Applied Catalysis B: Environmental</i> , 2018 , 238, 6-18	21.8	218
192	Immobilization of Cd in river sediments by sodium alginate modified nanoscale zero-valent iron: Impact on enzyme activities and microbial community diversity. <i>Water Research</i> , 2016 , 106, 15-25	12.5	205
191	The application of different typological and structural MOFs-based materials for the dyes adsorption. <i>Coordination Chemistry Reviews</i> , 2019 , 380, 471-483	23.2	203
190	In Situ Grown AgI/Bi ₂ O ₃ /Cd ₂ Heterojunction Photocatalysts for Visible Light Degradation of Sulfamethazine: Efficiency, Pathway, and Mechanism. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 4174-4184	8.3	200
189	Gold rush in modern science: Fabrication strategies and typical advanced applications of gold nanoparticles in sensing. <i>Coordination Chemistry Reviews</i> , 2018 , 359, 1-31	23.2	199
188	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	8.4	197
187	Nanoscale zero-valent iron coated with rhamnolipid as an effective stabilizer for immobilization of Cd and Pb in river sediments. <i>Journal of Hazardous Materials</i> , 2018 , 341, 381-389	12.8	193
186	Stabilized Nanoscale Zerovalent Iron Mediated Cadmium Accumulation and Oxidative Damage of <i>Boehmeria nivea</i> (L.) Gaudich Cultivated in Cadmium Contaminated Sediments. <i>Environmental Science & Technology</i> , 2017 , 51, 11308-11316	10.3	187
185	Rational design 2D/2D BiOBr/CDs/g-C ₃ N ₄ Z-scheme heterojunction photocatalyst with carbon dots as solid-state electron mediators for enhanced visible and NIR photocatalytic activity: Kinetics, intermediates, and mechanism insight. <i>Journal of Catalysis</i> , 2019 , 369, 469-481	7.3	185
184	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	12.5	183
183	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	12.5	181
182	Graphitic Carbon Nitride-Based Heterojunction Photoactive Nanocomposites: Applications and Mechanism Insight. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 21035-21055	9.5	179
181	Artificial Z-scheme photocatalytic system: What have been done and where to go?. <i>Coordination Chemistry Reviews</i> , 2019 , 385, 44-80	23.2	169
180	Black Phosphorus, a Rising Star 2D Nanomaterial in the Post-Graphene Era: Synthesis, Properties, Modifications, and Photocatalysis Applications. <i>Small</i> , 2019 , 15, e1804565	11	168
179	Fabrication of novel magnetic MnFeO/bio-char composite and heterogeneous photo-Fenton degradation of tetracycline in near neutral pH. <i>Chemosphere</i> , 2019 , 224, 910-921	8.4	168

178	In-situ deposition of gold nanoparticles onto polydopamine-decorated g-CN for highly efficient reduction of nitroaromatics in environmental water purification. <i>Journal of Colloid and Interface Science</i> , 2019 , 534, 357-369	9.3	160
177	1D porous tubular g-C ₃ N ₄ capture black phosphorus quantum dots as 1D/0D metal-free photocatalysts for oxytetracycline hydrochloride degradation and hexavalent chromium reduction. <i>Applied Catalysis B: Environmental</i> , 2020 , 273, 119051	21.8	158
176	Metal or metal-containing nanoparticle@MOF nanocomposites as a promising type of photocatalyst. <i>Coordination Chemistry Reviews</i> , 2019 , 388, 63-78	23.2	157
175	Rational Design of Carbon-Doped Carbon Nitride/Bi ₂ O ₃ /Bi ₂ WO ₆ Composites: A Promising Candidate Photocatalyst for Boosting Visible-Light-Driven Photocatalytic Degradation of Tetracycline. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 6941-6949	8.3	156
174	Rational design of graphitic carbon nitride copolymers by molecular doping for visible-light-driven degradation of aqueous sulfamethazine and hydrogen evolution. <i>Chemical Engineering Journal</i> , 2019 , 359, 186-196	14.7	153
173	Advantages and challenges of Tween 80 surfactant-enhanced technologies for the remediation of soils contaminated with hydrophobic organic compounds. <i>Chemical Engineering Journal</i> , 2017 , 314, 98-113	14.7	151
172	Efficient degradation of sulfamethazine in simulated and real wastewater at slightly basic pH values using Co-SAM-SCS/HO Fenton-like system. <i>Water Research</i> , 2018 , 138, 7-18	12.5	151
171	Pyrolysis and reutilization of plant residues after phytoremediation of heavy metals contaminated sediments: For heavy metals stabilization and dye adsorption. <i>Bioresource Technology</i> , 2018 , 253, 64-71	11	149
170	A visual application of gold nanoparticles: Simple, reliable and sensitive detection of kanamycin based on hydrogen-bonding recognition. <i>Sensors and Actuators B: Chemical</i> , 2017 , 243, 946-954	8.5	147
169	Biochar for environmental management: Mitigating greenhouse gas emissions, contaminant treatment, and potential negative impacts. <i>Chemical Engineering Journal</i> , 2019 , 373, 902-922	14.7	147
168	Chitosan functionalized activated coke for Au nanoparticles anchoring: Green synthesis and catalytic activities in hydrogenation of nitrophenols and azo dyes. <i>Applied Catalysis B: Environmental</i> , 2019 , 255, 117740	21.8	146
167	Facile construction of hierarchical flower-like Z-scheme AgBr/Bi ₂ WO ₆ photocatalysts for effective removal of tetracycline: Degradation pathways and mechanism. <i>Chemical Engineering Journal</i> , 2019 , 375, 121991	14.7	142
166	Molecular engineering of polymeric carbon nitride for highly efficient photocatalytic oxytetracycline degradation and H ₂ O ₂ production. <i>Applied Catalysis B: Environmental</i> , 2020 , 272, 118970	21.8	135
165	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	12.8	135
164	Alkali Metal-Assisted Synthesis of Graphitic Carbon Nitride with Tunable Band-Gap for Enhanced Visible-Light-Driven Photocatalytic Performance. <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 15503-15516	8.3	134
163	Role of radical and non-radical pathway in activating persulfate for degradation of p-nitrophenol by sulfur-doped ordered mesoporous carbon. <i>Chemical Engineering Journal</i> , 2020 , 384, 123304	14.7	131
162	Assembly of AgI nanoparticles and ultrathin g-C ₃ N ₄ nanosheets codecorated Bi ₂ WO ₆ direct dual Z-scheme photocatalyst: An efficient, sustainable and heterogeneous catalyst with enhanced photocatalytic performance. <i>Chemical Engineering Journal</i> , 2019 , 373, 1144-1157	14.7	128
161	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. <i>Chemical Engineering Journal</i> , 2019 , 362, 865-876	14.7	126

160	Nano-structured bismuth tungstate with controlled morphology: Fabrication, modification, environmental application and mechanism insight. <i>Chemical Engineering Journal</i> , 2019 , 358, 480-496	14.7	124
159	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	13	123
158	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. <i>Chemical Engineering Journal</i> , 2019 , 361, 353-363	14.7	122
157	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	12.8	120
156	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	11.8	119
155	Adsorption behavior of engineered carbons and carbon nanomaterials for metal endocrine disruptors: Experiments and theoretical calculation. <i>Chemosphere</i> , 2019 , 222, 184-194	8.4	118
154	In Situ Grown Single-Atom Cobalt on Polymeric Carbon Nitride with Bidentate Ligand for Efficient Photocatalytic Degradation of Refractory Antibiotics. <i>Small</i> , 2020 , 16, e2001634	11	118
153	Recent advances in sensors for tetracycline antibiotics and their applications. <i>TrAC - Trends in Analytical Chemistry</i> , 2018 , 109, 260-274	14.6	118
152	Remediation of contaminated soils by enhanced nanoscale zero valent iron. <i>Environmental Research</i> , 2018 , 163, 217-227	7.9	117
151	Microplastic pollution in surface sediments of urban water areas in Changsha, China: Abundance, composition, surface textures. <i>Marine Pollution Bulletin</i> , 2018 , 136, 414-423	6.7	116
150	Cr(VI) removal from aqueous solution using biochar modified with Mg/Al-layered double hydroxide intercalated with ethylenediaminetetraacetic acid. <i>Bioresource Technology</i> , 2019 , 276, 127-132	11	115
149	Multiply structural optimized strategies for bismuth oxyhalide photocatalysis and their environmental application. <i>Chemical Engineering Journal</i> , 2019 , 374, 1025-1045	14.7	114
148	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	12.8	113
147	Effects of calcium at toxic concentrations of cadmium in plants. <i>Planta</i> , 2017 , 245, 863-873	4.7	111
146	Cooperative catalytic performance of bimetallic Ni-Au nanocatalyst for highly efficient hydrogenation of nitroaromatics and corresponding mechanism insight. <i>Applied Catalysis B: Environmental</i> , 2019 , 259, 118035	21.8	110
145	Advanced photocatalytic Fenton-like process over biomimetic hemin-Bi ₂ WO ₆ with enhanced pH. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2018 , 93, 184-192	5.3	109
144	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	8.4	109
143	Remediation of contaminated soils by biotechnology with nanomaterials: bio-behavior, applications, and perspectives. <i>Critical Reviews in Biotechnology</i> , 2018 , 38, 455-468	9.4	108

142	Au nanoparticles decorated on activated coke via a facile preparation for efficient catalytic reduction of nitrophenols and azo dyes. <i>Applied Surface Science</i> , 2019 , 473, 578-588	6.7	108
141	In-situ synthesis of facet-dependent BiVO ₄ /Ag ₃ PO ₄ /PANI photocatalyst with enhanced visible-light-induced photocatalytic degradation performance: Synergism of interfacial coupling and hole-transfer. <i>Chemical Engineering Journal</i> , 2020 , 382, 122840	14.7	105
140	Efficient visible light driven degradation of sulfamethazine and tetracycline by salicylic acid modified polymeric carbon nitride via charge transfer. <i>Chemical Engineering Journal</i> , 2019 , 370, 1077-1086	14.7	104
139	Electrochemical Aptasensor Based on Sulfur-Nitrogen Codoped Ordered Mesoporous Carbon and Thymine-Hg-Thymine Mismatch Structure for Hg Detection. <i>ACS Sensors</i> , 2018 , 3, 2566-2573	9.2	103
138	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	8.4	100
137	Advances in photocatalysis based on fullerene C ₆₀ and its derivatives: Properties, mechanism, synthesis, and applications. <i>Applied Catalysis B: Environmental</i> , 2020 , 265, 118579	21.8	100
136	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	12.8	98
135	A multifunctional platform by controlling of carbon nitride in the core-shell structure: From design to construction, and catalysis applications. <i>Applied Catalysis B: Environmental</i> , 2019 , 258, 117957	21.8	97
134	Recent progress on metal-organic frameworks based- and derived-photocatalysts for water splitting. <i>Chemical Engineering Journal</i> , 2020 , 383, 123196	14.7	96
133	Strategies to improve metal organic frameworks photocatalyst performance for degradation of organic pollutants. <i>Coordination Chemistry Reviews</i> , 2018 , 376, 449-466	23.2	96
132	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	12.8	95
131	Peroxidase-Like Activity of Smart Nanomaterials and Their Advanced Application in Colorimetric Glucose Biosensors. <i>Small</i> , 2019 , 15, e1900133	11	94
130	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	21.8	94
129	Metal sulfide/MOF-based composites as visible-light-driven photocatalysts for enhanced hydrogen production from water splitting. <i>Coordination Chemistry Reviews</i> , 2020 , 409, 213220	23.2	92
128	Effect of Phanerochaete chrysosporium inoculation on bacterial community and metal stabilization in lead-contaminated agricultural waste composting. <i>Bioresource Technology</i> , 2017 , 243, 294-303	11	92
127	ZIF-8-modified MnFe ₂ O ₄ with high crystallinity and superior photo-Fenton catalytic activity by Zn-O-Fe structure for TC degradation. <i>Chemical Engineering Journal</i> , 2020 , 392, 124851	14.7	91
126	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	12.8	90
125	Practical and regenerable electrochemical aptasensor based on nanoporous gold and thymine-Hg-thymine base pairs for Hg detection. <i>Biosensors and Bioelectronics</i> , 2017 , 90, 542-548	11.8	90

124	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	12.8	86
123	Nanoremediation of cadmium contaminated river sediments: Microbial response and organic carbon changes. <i>Journal of Hazardous Materials</i> , 2018 , 359, 290-299	12.8	84
122	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	7	81
121	Modifying delafossite silver ferrite with polyaniline: Visible-light-response Z-scheme heterojunction with charge transfer driven by internal electric field. <i>Chemical Engineering Journal</i> , 2019 , 370, 1087-1100	14.7	80
120	Hierarchical porous carbon material restricted Au catalyst for highly catalytic reduction of nitroaromatics. <i>Journal of Hazardous Materials</i> , 2019 , 380, 120864	12.8	77
119	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	12.8	75
118	Immobilized laccase on bentonite-derived mesoporous materials for removal of tetracycline. <i>Chemosphere</i> , 2019 , 222, 865-871	8.4	72
117	Unravelling the role of dual quantum dots cocatalyst in 0D/2D heterojunction photocatalyst for promoting photocatalytic organic pollutant degradation. <i>Chemical Engineering Journal</i> , 2020 , 396, 125343	14.7	72
116	Metal-organic frameworks derived Bi ₂ O ₂ CO ₃ /porous carbon nitride: A nanosized Z-scheme systems with enhanced photocatalytic activity. <i>Applied Catalysis B: Environmental</i> , 2020 , 267, 118700	21.8	72
115	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	10.2	72
114	Facile synthesis of bismuth oxyhalogen-based Z-scheme photocatalyst for visible-light-driven pollutant removal: Kinetics, degradation pathways and mechanism. <i>Journal of Cleaner Production</i> , 2019 , 225, 898-912	10.3	71
113	Influence of morphological and chemical features of biochar on hydrogen peroxide activation: implications on sulfamethazine degradation. <i>RSC Advances</i> , 2016 , 6, 73186-73196	3.7	71
112	Persulfate activation by swine bone char-derived hierarchical porous carbon: Multiple mechanism system for organic pollutant degradation in aqueous media. <i>Chemical Engineering Journal</i> , 2020 , 383, 123091	14.7	71
111	The combination of Fenton process and <i>Phanerochaete chrysosporium</i> for the removal of bisphenol A in river sediments: Mechanism related to extracellular enzyme, organic acid and iron. <i>Chemical Engineering Journal</i> , 2018 , 338, 432-439	14.7	69
110	Covalent triazine frameworks for carbon dioxide capture. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 22843-22870	4.3	68
109	Chitosan-wrapped gold nanoparticles for hydrogen-bonding recognition and colorimetric determination of the antibiotic kanamycin. <i>Mikrochimica Acta</i> , 2017 , 184, 2097-2105	5.8	67
108	Recent advances in conjugated microporous polymers for photocatalysis: designs, applications, and prospects. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 6434-6470	13	67
107	Heavy metal-induced glutathione accumulation and its role in heavy metal detoxification in <i>Phanerochaete chrysosporium</i> . <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 6409-18	5.7	67

106	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	11	66
105	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	9.3	65
104	In situ synthesis of visible-light-driven Z-scheme AgI/Bi ₂ WO ₆ heterojunction photocatalysts with enhanced photocatalytic activity. <i>Ceramics International</i> , 2019 , 45, 6340-6349	5.1	65
103	Silver-based semiconductor Z-scheme photocatalytic systems for environmental purification. <i>Journal of Hazardous Materials</i> , 2020 , 390, 122128	12.8	63
102	Recent progress in sustainable technologies for adsorptive and reactive removal of sulfonamides. <i>Chemical Engineering Journal</i> , 2020 , 389, 123423	14.7	63
101	Mn doped magnetic biochar as persulfate activator for the degradation of tetracycline. <i>Chemical Engineering Journal</i> , 2020 , 391, 123532	14.7	63
100	Ultrathin oxygen-vacancy abundant WO decorated monolayer BiWO 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	9.3	58
99	Metal-organic frameworks and their derivatives as signal amplification elements for electrochemical sensing. <i>Coordination Chemistry Reviews</i> , 2020 , 424, 213520	23.2	58
98	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	23.2	57
97	Demystifying the active roles of NiFe-based oxides/(oxy)hydroxides for electrochemical water splitting under alkaline conditions. <i>Coordination Chemistry Reviews</i> , 2020 , 408, 213177	23.2	57
96	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	7.9	57
95	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	9.4	57
94	Fabrication of water-compatible molecularly imprinted polymer based on Cyclodextrin modified magnetic chitosan and its application for selective removal of bisphenol A from aqueous solution. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2017 , 77, 113-121	5.3	56
93	Environment-friendly fullerene separation methods. <i>Chemical Engineering Journal</i> , 2017 , 330, 134-145	14.7	55
92	Facet-Engineered Surface and Interface Design of Monoclinic Scheelite Bismuth Vanadate for Enhanced Photocatalytic Performance. <i>ACS Catalysis</i> , 2020 , 10, 1024-1059	13.1	55
91	Biotransformation of cadmium-sulfamethazine combined pollutant in aqueous environments: Phanerochaete chrysosporium bring cautious optimism. <i>Chemical Engineering Journal</i> , 2018 , 347, 74-83	14.7	54
90	Salicylic acid-methanol modified steel converter slag as heterogeneous Fenton-like catalyst for enhanced degradation of alachlor. <i>Chemical Engineering Journal</i> , 2017 , 327, 686-693	14.7	54
89	Microplastics and nanoplastics in the environment: Macroscopic transport and effects on creatures. <i>Journal of Hazardous Materials</i> , 2021 , 407, 124399	12.8	54

88	Graphdiyne: A Rising Star of Electrocatalyst Support for Energy Conversion. <i>Advanced Energy Materials</i> , 2020 , 10, 2000177	21.8	53
87	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	13	53
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	10.2	52
85	Progress and challenges of metal-organic frameworks-based materials for SR-AOPs applications in water treatment. <i>Chemosphere</i> , 2021 , 263, 127672	8.4	50
84	ZnxCd1-xS based materials for photocatalytic hydrogen evolution, pollutants degradation and carbon dioxide reduction. <i>Applied Catalysis B: Environmental</i> , 2020 , 267, 118651	21.8	49
83	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	14.7	46
82	Recent advances in application of transition metal phosphides for photocatalytic hydrogen production. <i>Chemical Engineering Journal</i> , 2021 , 405, 126547	14.7	46
81	Insight into the mechanism of persulfate activated by bone char: Unraveling the role of functional structure of biochar. <i>Chemical Engineering Journal</i> , 2020 , 401, 126127	14.7	45
80	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	8.4	45
79	Carbon nitride based photocatalysts for solar photocatalytic disinfection, can we go further?. <i>Chemical Engineering Journal</i> , 2021 , 404, 126540	14.7	43
78	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	3.7	42
77	An overview on nitride and nitrogen-doped photocatalysts for energy and environmental applications. <i>Composites Part B: Engineering</i> , 2019 , 172, 704-723	10	41
76	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 ^{9.4}	9.4	41
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