Jian-Long Wang

List of Publications by Year
in descending order

630 papers	53,024 citations	1294 109 h-index	2439 197 g-index
635 all docs	635 docs citations	635 times ranked	31703 citing authors

#	Article	IF	Citations
1	Activation of persulfate (PS) and peroxymonosulfate (PMS) and application for the degradation of emerging contaminants. Chemical Engineering Journal, 2018, 334, 1502-1517.	6.6	2,583
2	Biosorbents for heavy metals removal and their future. Biotechnology Advances, 2009, 27, 195-226.	6.0	2,111
3	Preparation, modification and environmental application of biochar: A review. Journal of Cleaner Production, 2019, 227, 1002-1022.	4.6	1,216
4	Adsorption kinetic models: Physical meanings, applications, and solving methods. Journal of Hazardous Materials, 2020, 390, 122156.	6.5	1,132
5	Biosorption of heavy metals by Saccharomyces cerevisiae: A review. Biotechnology Advances, 2006, 24, 427-451.	6.0	1,096
6	Removal of pharmaceuticals and personal care products (PPCPs) from wastewater: A review. Journal of Environmental Management, 2016, 182, 620-640.	3.8	1,037
7	Magnetic Nanoscaled Fe₃O₄/CeO₂ Composite as an Efficient Fenton-Like Heterogeneous Catalyst for Degradation of 4-Chlorophenol. Environmental Science & Technology, 2012, 46, 10145-10153.	4.6	960
8	Adsorption isotherm models: Classification, physical meaning, application and solving method. Chemosphere, 2020, 258, 127279.	4.2	904
9	Degradation of antibiotics by advanced oxidation processes: An overview. Science of the Total Environment, 2020, 701, 135023.	3.9	799
10	Reactive species in advanced oxidation processes: Formation, identification and reaction mechanism. Chemical Engineering Journal, 2020, 401, 126158.	6.6	761
11	Catalytic ozonation for water and wastewater treatment: Recent advances and perspective. Science of the Total Environment, 2020, 704, 135249.	3.9	594
12	Fe-based catalysts for heterogeneous catalytic ozonation of emerging contaminants in water and wastewater. Chemical Engineering Journal, 2017, 312, 79-98.	6.6	514
13	A heterogeneous Fenton-like system with nanoparticulate zero-valent iron for removal of 4-chloro-3-methyl phenol. Journal of Hazardous Materials, 2011, 186, 256-264.	6.5	504
14	Effect of inorganic anions on the performance of advanced oxidation processes for degradation of organic contaminants. Chemical Engineering Journal, 2021, 411, 128392.	6.6	504
15	Chitosan-based biosorbents: Modification and application for biosorption of heavy metals and radionuclides. Bioresource Technology, 2014, 160, 129-141.	4.8	482
16	Occurrence and fate of antibiotics, antibiotic resistant genes (ARGs) and antibiotic resistant bacteria (ARB) in municipal wastewater treatment plant: An overview. Science of the Total Environment, 2020, 744, 140997.	3.9	480
17	Biological nitrate removal from water and wastewater by solid-phase denitrification process. Biotechnology Advances, 2016, 34, 1103-1112.	6.0	449
18	Metal Organic Framework with Coordinatively Unsaturated Sites as Efficient Fenton-like Catalyst for Enhanced Degradation of Sulfamethazine. Environmental Science & Technology, 2018, 52, 5367-5377.	4.6	410

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19	The chemical behaviors of microplastics in marine environment: A review. Marine Pollution Bulletin, 2019, 142, 1-14.	2.3	388
20	Covalent organic frameworks (COFs) for environmental applications. Coordination Chemistry Reviews, 2019, 400, 213046.	9.5	387
21	Competitive adsorption of Pb(II), Cu(II) and Zn(II) onto xanthate-modified magnetic chitosan. Journal of Hazardous Materials, 2012, 221-222, 155-161.	6.5	364
22	Fenton/Fenton-like processes with in-situ production of hydrogen peroxide/hydroxyl radical for degradation of emerging contaminants: Advances and prospects. Journal of Hazardous Materials, 2021, 404, 124191.	6.5	351
23	The occurrence, distribution and degradation of antibiotics by ionizing radiation: An overview. Science of the Total Environment, 2019, 646, 1385-1397.	3.9	348
24	Fenton-like degradation of 2,4-dichlorophenol using Fe3O4 magnetic nanoparticles. Applied Catalysis B: Environmental, 2012, 123-124, 117-126.	10.8	336
25	Degradation of sulfamethazine using Fe3O4-Mn3O4/reduced graphene oxide hybrid as Fenton-like catalyst. Journal of Hazardous Materials, 2017, 324, 653-664.	6.5	325
26	Irradiation treatment of pharmaceutical and personal care products (PPCPs) in water and wastewater: An overview. Radiation Physics and Chemistry, 2016, 125, 56-64.	1.4	298
27	A general kinetic model for adsorption: Theoretical analysis and modeling. Journal of Molecular Liquids, 2019, 288, 111100.	2.3	296
28	Comparison of different pretreatment methods for enriching hydrogen-producing bacteria from digested sludge. International Journal of Hydrogen Energy, 2008, 33, 2934-2941.	3.8	294
29	Reduction of nitrate by zero valent iron (ZVI)-based materials: A review. Science of the Total Environment, 2019, 671, 388-403.	3.9	288
30	A critical review on graphitic carbon nitride (g-C3N4)-based materials: Preparation, modification and environmental application. Coordination Chemistry Reviews, 2022, 453, 214338.	9.5	279
31	Review and comparison of various hydrogen production methods based on costs and life cycle impact assessment indicators. International Journal of Hydrogen Energy, 2021, 46, 38612-38635.	3.8	278
32	Peroxymonosulfate Activation by Feâ€“Coâ€“O-Codoped Graphite Carbon Nitride for Degradation of Sulfamethoxazole. Environmental Science & Technology, 2020, 54, 10361-10369.	4.6	273
33	Removal of various pollutants from water and wastewater by modified chitosan adsorbents. Critical Reviews in Environmental Science and Technology, 2017, 47, 2331-2386.	6.6	272
34	Activation of peroxymonosulfate by sludge-derived biochar for the degradation of triclosan in water and wastewater. Chemical Engineering Journal, 2019, 356, 350-358.	6.6	268
35	Microbial degradation of sulfamethoxazole in the environment. Applied Microbiology and Biotechnology, 2018, 102, 3573-3582.	1.7	257
36	Zn-Fe-CNTs catalytic in situ generation of H2O2 for Fenton-like degradation of sulfamethoxazole. Journal of Hazardous Materials, 2018, 342, 166-176.	6.5	236

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37	Fermentative hydrogen production using various biomass-based materials as feedstock. Renewable and Sustainable Energy Reviews, 2018, 92, 284-306.	8.2	222
38	Sorption of sulfamethoxazole onto six types of microplastics. Chemosphere, 2019, 228, 300-308.	4.2	215
39	The simultaneous detection and removal of organophosphorus pesticides by a novel Zr-MOF based smart adsorbent. Journal of Materials Chemistry A, 2018, 6, 2184-2192.	5.2	214
40	Adsorption of diclofenac from aqueous solution using UiO-66-type metal-organic frameworks. Chemical Engineering Journal, 2019, 359, 354-362.	6.6	209
41	Amino-Functionalized Alâ€“MOF for Fluorescent Detection of Tetracyclines in Milk. Journal of Agricultural and Food Chemistry, 2019, 67, 1277-1283.	2.4	208
42	Comparison of linearization methods for modeling the Langmuir adsorption isotherm. Journal of Molecular Liquids, 2019, 296, 111850.	2.3	207
43	One-pot synthesis of multifunctional magnetic ferriteâ€“MoS₂â€“carbon dot nanohybrid adsorbent for efficient Pb(<scp>ii</scp>) removal. Journal of Materials Chemistry A, 2016, 4, 3893-3900.	5.2	205
44	A self-standing nanoporous MoP₂ nanosheet array: an advanced pH-universal catalytic electrode for the hydrogen evolution reaction. Journal of Materials Chemistry A, 2016, 4, 7169-7173.	5.2	204
45	Fenton-like degradation of sulfamethoxazole using Fe-based magnetic nanoparticles embedded into mesoporous carbon hybrid as an efficient catalyst. Chemical Engineering Journal, 2018, 351, 1085-1094.	6.6	204
46	Oxygenâ€Generating MnO₂ Nanodotsâ€Anchored Versatile Nanoplatform for Combined Chemoâ€Photodynamic Therapy in Hypoxic Cancer. Advanced Functional Materials, 2018, 28, 1706375.	7.8	203
47	Heterotrophic nitrification and aerobic denitrification by a novel Acinetobacter sp. ND7 isolated from municipal activated sludge. Bioresource Technology, 2020, 301, 122749.	4.8	202
48	N,S co-doped carbon dots based fluorescent â€œon-off-onâ€•sensor for determination of ascorbic acid in common fruits. Food Chemistry, 2018, 258, 214-221.	4.2	198
49	Kinetic models for fermentative hydrogen production: A review. International Journal of Hydrogen Energy, 2009, 34, 3313-3323.	3.8	191
50	Metal hexacyanoferrates-based adsorbents for cesium removal. Coordination Chemistry Reviews, 2018, 374, 430-438.	9.5	191
51	Various electron donors for biological nitrate removal: A review. Science of the Total Environment, 2021, 794, 148699.	3.9	191
52	Degradation of sulfamethazine by gamma irradiation in the presence of hydrogen peroxide. Journal of Hazardous Materials, 2013, 250-251, 99-105.	6.5	190
53	The application of graphene-based materials for the removal of heavy metals and radionuclides from water and wastewater. Critical Reviews in Environmental Science and Technology, 2017, 47, 1042-1105.	6.6	190
54	Removal of Pb2+, Ag+, Cs+ and Sr2+ from aqueous solution by brewery's waste biomass. Journal of Hazardous Materials, 2008, 151, 65-70.	6.5	185

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55	Removal of cesium ions from aqueous solutions using various separation technologies. Reviews in Environmental Science and Biotechnology, 2019, 18, 231-269.	3.9	185
56	Fe-based Fenton-like catalysts for water treatment: Preparation, characterization and modification. Chemosphere, 2021, 276, 130177.	4.2	182
57	Wet-chemistry topotactic synthesis of bimetallic ironâ€“nickel sulfide nanoarrays: an advanced and versatile catalyst for energy efficient overall water and urea electrolysis. Journal of Materials Chemistry A, 2018, 6, 4346-4353.	5.2	181
58	Covalent organic frameworks as efficient adsorbent for sulfamerazine removal from aqueous solution. Journal of Hazardous Materials, 2020, 383, 121126.	6.5	180
59	Removal of Co2+ from radioactive wastewater by polyvinyl alcohol (PVA)/chitosan magnetic composite. Progress in Nuclear Energy, 2014, 71, 172-178.	1.3	175
60	Comparison of reductive dechlorination of p-chlorophenol using Fe0 and nanosized Fe0. Journal of Hazardous Materials, 2007, 144, 334-339.	6.5	171
61	Kinetic and equilibrium of U(â…¥) adsorption onto magnetic amidoxime-functionalized chitosan beads. Journal of Cleaner Production, 2018, 188, 655-661.	4.6	170
62	Various additives for improving dark fermentative hydrogen production: A review. Renewable and Sustainable Energy Reviews, 2018, 95, 130-146.	8.2	168
63	Comparison of polyurethane foam and biodegradable polymer as carriers in moving bed biofilm reactor for treating wastewater with a low C/N ratio. Chemosphere, 2011, 83, 63-68.	4.2	167
64	Treatment of coking wastewater by an advanced Fenton oxidation process using iron powder and hydrogen peroxide. Chemosphere, 2012, 86, 409-414.	4.2	165
65	Traditional NiCo₂S₄ Phase with Porous Nanosheets Array Topology on Carbon Cloth: A Flexible, Versatile and Fabulous Electrocatalyst for Overall Water and Urea Electrolysis. ACS Sustainable Chemistry and Engineering, 2018, 6, 5011-5020.	3.2	164
66	Removal of radionuclide Sr2+ ions from aqueous solution using synthesized magnetic chitosan beads. Nuclear Engineering and Design, 2012, 242, 445-451.	0.8	163
67	Sorption of antibiotics onto aged microplastics in freshwater and seawater. Marine Pollution Bulletin, 2019, 149, 110511.	2.3	163
68	Iron-copper bimetallic metal-organic frameworks for efficient Fenton-like degradation of sulfamethoxazole under mild conditions. Chemosphere, 2020, 241, 125002.	4.2	161
69	Denitrification performance and biofilm characteristics using biodegradable polymers PCL as carriers and carbon source. Chemosphere, 2013, 91, 1310-1316.	4.2	160
70	Application of radiation technology to sewage sludge processing: A review. Journal of Hazardous Materials, 2007, 143, 2-7.	6.5	156
71	Nitrogen-doped graphene as peroxymonosulfate activator and electron transfer mediator for the enhanced degradation of sulfamethoxazole. Chemical Engineering Journal, 2019, 375, 122041.	6.6	155
72	Treatment of petrochemical wastewater by microaerobic hydrolysis and anoxic/oxic processes and analysis of bacterial diversity. Bioresource Technology, 2015, 196, 169-175.	4.8	152

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73	Internally extended growth of coreâ€“shell NH₂-MIL-101(Al)@ZIF-8 nanoflowers for the simultaneous detection and removal of Cu(<scp>ii</scp>). Journal of Materials Chemistry A, 2018, 6, 21029-21038.	5.2	150
74	Fermentative hydrogen production using pretreated microalgal biomass as feedstock. Microbial Cell Factories, 2018, 17, 22.	1.9	146
75	MOF-derived three-dimensional flower-like FeCu@C composite as an efficient Fenton-like catalyst for sulfamethazine degradation. Chemical Engineering Journal, 2019, 375, 122007.	6.6	143
76	Electrochemical reduction of CO2 to formate in aqueous solution using electro-deposited Sn catalysts. Chemical Engineering Journal, 2016, 293, 161-170.	6.6	142
77	Recent progress on upgrading of bio-oil to hydrocarbons over metal/zeolite bifunctional catalysts. Catalysis Science and Technology, 2017, 7, 2385-2415.	2.1	142
78	High effective adsorption/removal of illegal food dyes from contaminated aqueous solution by Zr-MOFs (UiO-67). Food Chemistry, 2018, 254, 241-248.	4.2	142
79	Improving mechanisms of biohydrogen production from grass using zero-valent iron nanoparticles. Bioresource Technology, 2018, 266, 413-420.	4.8	142
80	Sorption of sulfamethazine onto different types of microplastics: A combined experimental and molecular dynamics simulation study. Marine Pollution Bulletin, 2019, 145, 547-554.	2.3	141
81	Effect of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si7.gif" overflow="scroll"><mml:msup><mml:mrow><mml:mi mathvariant="bold">Fe</mml:mi></mml:mrow><mml:mrow><mml:mn mathvariant="bold">2</mml:mn><mml:mo>+</mml:mo></mml:mrow></mml:msup></mml:math> concentration on fermentative hydrogen production by mixed cultures. International Journal of Hydrogen Energy, 2008, 33, 1215-1220.	3.8	140
82	Denitrification performance and microbial diversity in a packed-bed bioreactor using biodegradable polymer as carbon source and biofilm support. Journal of Hazardous Materials, 2013, 250-251, 431-438.	6.5	140
83	Forward osmosis technology for water treatment: Recent advances and future perspectives. Journal of Cleaner Production, 2021, 280, 124354.	4.6	139
84	Chitosan-based materials: Preparation, modification and application. Journal of Cleaner Production, 2022, 355, 131825.	4.6	139
85	Principle and application of different pretreatment methods for enriching hydrogen-producing bacteria from mixed cultures. International Journal of Hydrogen Energy, 2017, 42, 4804-4823.	3.8	138
86	Catalytic ozonation of sulfamethazine using Ce0.1Fe0.9OOH as catalyst: Mineralization and catalytic mechanisms. Chemical Engineering Journal, 2016, 300, 169-176.	6.6	136
87	Adsorption of Sr(II) from water by mercerized bacterial cellulose membrane modified with EDTA. Journal of Hazardous Materials, 2019, 364, 645-653.	6.5	136
88	Effect and aftereffect of Î³ radiation pretreatment on enzymatic hydrolysis of wheat straw. Bioresource Technology, 2008, 99, 6240-6245.	4.8	135
89	Comparison of denitrification performance and microbial diversity using starch/polylactic acid blends and ethanol as electron donor for nitrate removal. Bioresource Technology, 2013, 131, 33-39.	4.8	134
90	Treatment and disposal of spent radioactive ion-exchange resins produced in the nuclear industry. Progress in Nuclear Energy, 2015, 78, 47-55.	1.3	133

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91	Nitrogen removal using biodegradable polymers as carbon source and biofilm carriers in a moving bed biofilm reactor. Chemical Engineering Journal, 2011, 170, 220-225.	6.6	132
92	Catalytic ozonation of sulfamethoxazole over Fe3O4/Co3O4 composites. Chemosphere, 2019, 234, 14-24.	4.2	130
93	NH₂-MIL-53(Al) Metalâ€“Organic Framework as the Smart Platform for Simultaneous High-Performance Detection and Removal of Hg²⁺. Inorganic Chemistry, 2019, 58, 12573-12581.	1.9	128
94	Peroxymonosulfate activation by Co9S8@ S and N coâ€doped biochar for sulfamethoxazole degradation. Chemical Engineering Journal, 2020, 385, 123933.	6.6	128
95	Magnetic COFs for the adsorptive removal of diclofenac and sulfamethazine from aqueous solution: Adsorption kinetics, isotherms study and DFT calculation. Journal of Hazardous Materials, 2020, 385, 121596.	6.5	126
96	In situ prepared nano-crystalline TiO2â€“poly(methyl methacrylate) hybrid enhanced composite polymer electrolyte for Li-ion batteries. Journal of Materials Chemistry A, 2013, 1, 5955.	5.2	125
97	Gamma radiation-induced degradation of p-nitrophenol (PNP) in the presence of hydrogen peroxide (H2O2) in aqueous solution. Journal of Hazardous Materials, 2010, 177, 1061-1067.	6.5	124
98	Treatment of radioactive wastewater using direct contact membrane distillation. Journal of Hazardous Materials, 2013, 261, 307-315.	6.5	122
99	Mechanism of Co(II) adsorption by zero valent iron/graphene nanocomposite. Journal of Hazardous Materials, 2016, 301, 286-296.	6.5	122
100	Advances in cement solidification technology for waste radioactive ion exchange resins: A review. Journal of Hazardous Materials, 2006, 135, 443-448.	6.5	120
101	Influence of Ni2+ concentration on biohydrogen production. Bioresource Technology, 2008, 99, 8864-8868.	4.8	120
102	Thermochemical conversion of low-lipid microalgae for the production of liquid fuels: challenges and opportunities. RSC Advances, 2015, 5, 18673-18701.	1.7	120
103	Radiation-induced degradation of sulfamethoxazole in the presence of various inorganic anions. Chemical Engineering Journal, 2018, 351, 688-696.	6.6	119
104	MOF-derived Co3O4-C@FeOOH as an efficient catalyst for catalytic ozonation of norfloxacin. Journal of Hazardous Materials, 2021, 403, 123697.	6.5	119
105	(Bio)degradation of glyphosate in water-sediment microcosms â€“ A stable isotope co-labeling approach. Water Research, 2016, 99, 91-100.	5.3	118
106	Amorphous Fe/Mn bimetalâ€“organic frameworks: outer and inner structural designs for efficient arsenic(<scp>iii</scp>) removal. Journal of Materials Chemistry A, 2019, 7, 2845-2854.	5.2	118
107	Portable Colorimetric Detection of Mercury(II) Based on a Non-Noble Metal Nanozyme with Tunable Activity. Inorganic Chemistry, 2019, 58, 1638-1646.	1.9	118
108	Versatile molybdenum disulfide based antibacterial composites for in vitro enhanced sterilization and in vivo focal infection therapy. Nanoscale, 2016, 8, 11642-11648.	2.8	117

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109	Trimethoprim degradation by Fenton and Fe(II)-activated persulfate processes. Chemosphere, 2018, 191, 97-105.	4.2	116
110	Immobilization of activated sludge using improved polyvinyl alcohol (PVA) gel. Journal of Environmental Sciences, 2007, 19, 1293-1297.	3.2	115
111	Sorption of cobalt to bone char: Kinetics, competitive sorption and mechanism. Desalination, 2009, 249, 609-614.	4.0	115
112	Cadmium sorption by EPSs produced by anaerobic sludge under sulfate-reducing conditions. Journal of Hazardous Materials, 2006, 138, 589-593.	6.5	113
113	Iron and sulfur co-doped graphite carbon nitride (FeOy/S-g-C3N4) for activating peroxymonosulfate to enhance sulfamethoxazole degradation. Chemical Engineering Journal, 2020, 382, 122836.	6.6	113
114	Effects of pH and temperature on isotherm parameters of chlorophenols biosorption to anaerobic granular sludge. Journal of Hazardous Materials, 2007, 145, 398-403.	6.5	109
115	Electrochemical degradation of 4-chlorophenol using a novel Pd/C gas-diffusion electrode. Applied Catalysis B: Environmental, 2007, 77, 58-65.	10.8	108
116	Biological denitrification using cross-linked starch/PCL blends as solid carbon source and biofilm carrier. Bioresource Technology, 2011, 102, 8835-8838.	4.8	105
117	Recent advance in inhibition of dark fermentative hydrogen production. International Journal of Hydrogen Energy, 2021, 46, 5053-5073.	3.8	105
118	Denitrification of groundwater using PHBV blends in packed bed reactors and the microbial diversity. Chemosphere, 2016, 155, 463-470.	4.2	104
119	Fluorometric determination of the antibiotic kanamycin by aptamer-induced FRET quenching and recovery between MoS2 nanosheets and carbon dots. Mikrochimica Acta, 2017, 184, 203-210.	2.5	102
120	Degradation of carbamazepine by radiation-induced activation of peroxymonosulfate. Chemical Engineering Journal, 2018, 336, 595-601.	6.6	102
121	Performance and characteristics of an anaerobic baffled reactor. Bioresource Technology, 2004, 93, 205-208.	4.8	101
122	Optimization of fermentative hydrogen production process using genetic algorithm based on neural network and response surface methodology. International Journal of Hydrogen Energy, 2009, 34, 255-261.	3.8	101
123	Au Promoted Nickelâ€“Iron Layered Double Hydroxide Nanoarrays: A Modular Catalyst Enabling High-Performance Oxygen Evolution. ACS Applied Materials & Interfaces, 2017, 9, 19807-19814.	4.0	101
124	Biological caproate production by Clostridium kluyveri from ethanol and acetate as carbon sources. Bioresource Technology, 2017, 241, 638-644.	4.8	100
125	Hydrogen-based membrane biofilm reactors for nitrate removal from water and wastewater. International Journal of Hydrogen Energy, 2018, 43, 1-15.	3.8	100
126	Broadband Phototransistor Based on CH₃NH₃PbI₃ Perovskite and PbSe Quantum Dot Heterojunction. Journal of Physical Chemistry Letters, 2017, 8, 445-451.	2.1	99

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127	Conductive Leaflike Cobalt Metalâ€“Organic Framework Nanoarray on Carbon Cloth as a Flexible and Versatile Anode toward Both Electrocatalytic Glucose and Water Oxidation. Inorganic Chemistry, 2018, 57, 8422-8428.	1.9	99
128	Degradation of norfloxacin in aqueous solution by ionizing irradiation: Kinetics, pathway and biological toxicity. Chemical Engineering Journal, 2020, 395, 125095.	6.6	99
129	Influence of metal ionic characteristics on their biosorption capacity by Saccharomyces cerevisiae. Applied Microbiology and Biotechnology, 2007, 74, 911-917.	1.7	97
130	Removal of Uranium from Aqueous Solution by Alginate Beads. Nuclear Engineering and Technology, 2017, 49, 534-540.	1.1	96
131	Layered vanadium(IV) disulfide nanosheets as a peroxidase-like nanozyme for colorimetric detection of glucose. Mikrochimica Acta, 2018, 185, 7.	2.5	96
132	Microbial community diversity during fermentative hydrogen production inoculating various pretreated cultures. International Journal of Hydrogen Energy, 2019, 44, 13147-13156.	3.8	94
133	Degradation of chlorophenols in aqueous solution by Î³-radiation. Radiation Physics and Chemistry, 2007, 76, 1489-1492.	1.4	92
134	The characteristics and mechanism of Co(II) removal from aqueous solution by a novel xanthate-modified magnetic chitosan. Nuclear Engineering and Design, 2012, 242, 452-457.	0.8	92
135	Iron-Based Dual Active Site-Mediated Peroxymonosulfate Activation for the Degradation of Emerging Organic Pollutants. Environmental Science & Technology, 2021, 55, 15412-15422.	4.6	92
136	Degradation of sulfamethoxazole by ionizing radiation: Kinetics and implications of additives. Science of the Total Environment, 2019, 668, 67-73.	3.9	91
137	Cesium separation from radioactive waste by extraction and adsorption based on crown ethers and calixarenes. Nuclear Engineering and Technology, 2020, 52, 328-336.	1.1	91
138	Fe2+ enhancing sulfamethazine degradation in aqueous solution by gamma irradiation. Radiation Physics and Chemistry, 2014, 96, 81-87.	1.4	90
139	Carbamazepine degradation by gamma irradiation coupled to biological treatment. Journal of Hazardous Materials, 2017, 321, 639-646.	6.5	90
140	Nanoscaled zero valent iron/graphene composite as an efficient adsorbent for Co(II) removal from aqueous solution. Journal of Colloid and Interface Science, 2016, 474, 119-128.	5.0	89
141	Extraction and adsorption of U(VI) from aqueous solution using affinity ligand-based technologies: an overview. Reviews in Environmental Science and Biotechnology, 2019, 18, 437-452.	3.9	89
142	Mixed-Valence Ce-BPyDC Metalâ€“Organic Framework with Dual Enzyme-like Activities for Colorimetric Biosensing. Inorganic Chemistry, 2019, 58, 11382-11388.	1.9	89
143	Dechlorination of pentachlorophenol using nanoscale Fe/Ni particles: Role of nano-Ni and its size effect. Journal of Hazardous Materials, 2010, 180, 79-85.	6.5	87
144	Pretreatment of macroalgal Laminaria japonica by combined microwave-acid method for biohydrogen production. Bioresource Technology, 2018, 268, 52-59.	4.8	87

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145	Synergistic enhancement of biohydrogen production from grass fermentation using biochar combined with zero-valent iron nanoparticles. Fuel, 2019, 251, 420-427.	3.4	87
146	Ultrasound combined with dilute acid pretreatment of grass for improvement of fermentative hydrogen production. Bioresource Technology, 2019, 275, 10-18.	4.8	87
147	Surface molecularly imprinted polymer capped Mn-doped ZnS quantum dots as a phosphorescent nanosensor for detecting patulin in apple juice. Food Chemistry, 2017, 232, 145-154.	4.2	86
148	Removal of antibiotic resistance genes (ARGs) in various wastewater treatment processes: An overview. Critical Reviews in Environmental Science and Technology, 2022, 52, 571-630.	6.6	85
149	Fe-based Fenton-like catalysts for water treatment: Catalytic mechanisms and applications. Journal of Molecular Liquids, 2021, 332, 115755.	2.3	85
150	Suppressing electrolyte-lithium metal reactivity via Li+-desolvation in uniform nano-porous separator. Nature Communications, 2022, 13, 172.	5.8	83
151	Highly sensitive furazolidone monitoring in milk by a signal amplified lateral flow assay based on magnetite nanoparticles labeled dual-probe. Food Chemistry, 2018, 261, 131-138.	4.2	82
152	Degradation of macrolide antibiotic erythromycin and reduction of antimicrobial activity using persulfate activated by gamma radiation in different water matrices. Chemical Engineering Journal, 2019, 361, 156-166.	6.6	82
153	Bioinspired foam with large 3D macropores for efficient solar steam generation. Journal of Materials Chemistry A, 2018, 6, 16220-16227.	5.2	81
154	The phenomenological mass transfer kinetics model for Sr2+ sorption onto spheroids primary microplastics. Environmental Pollution, 2019, 250, 737-745.	3.7	80
155	Biohydrogen production from co-fermentation of fallen leaves and sewage sludge. Bioresource Technology, 2019, 285, 121342.	4.8	80
156	Denitrification using PBS as carbon source and biofilm support in a packed-bed bioreactor. Environmental Science and Pollution Research, 2013, 20, 333-339.	2.7	79
157	Simultaneous biological removal of nitrogen and phosphorus from secondary effluent of wastewater treatment plants by advanced treatment: A review. Chemosphere, 2022, 296, 134054.	4.2	79
158	Optimization of fermentative hydrogen production process by response surface methodology. International Journal of Hydrogen Energy, 2008, 33, 6976-6984.	3.8	78
159	Enriching hydrogen-producing bacteria from digested sludge by different pretreatment methods. International Journal of Hydrogen Energy, 2014, 39, 13550-13556.	3.8	78
160	Removal of sulfamethazine antibiotics using Ce Fe-graphene nanocomposite as catalyst by Fenton-like process. Journal of Environmental Management, 2016, 182, 284-291.	3.8	78
161	Adsorption of uranium (VI) by amidoxime modified multiwalled carbon nanotubes. Progress in Nuclear Energy, 2018, 106, 79-86.	1.3	78
162	The effect of substrate concentration on biohydrogen production by using kinetic models. Science in China Series B: Chemistry, 2008, 51, 1110-1117.	0.8	77

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163	Fe-based metal organic framework/graphene oxide composite as an efficient catalyst for Fenton-like degradation of methyl orange. RSC Advances, 2017, 7, 50829-50837.	1.7	77
164	Clostridium species for fermentative hydrogen production: An overview. International Journal of Hydrogen Energy, 2021, 46, 34599-34625.	3.8	77
165	A critical review of various adsorbents for selective removal of nitrate from water: Structure, performance and mechanism. Chemosphere, 2022, 291, 132728.	4.2	77
166	High-Efficient Generation of H₂O₂ by Aluminum-Graphite Composite through Selective Oxygen Reduction for Degradation of Organic Contaminants. Environmental Science & Technology, 2020, 54, 14085-14095.	4.6	76
167	Projecting the sorption capacity of heavy metal ions onto microplastics in global aquatic environments using artificial neural networks. Journal of Hazardous Materials, 2021, 402, 123709.	6.5	76
168	Nitrogen doping sludge-derived biochar to activate peroxymonosulfate for degradation of sulfamethoxazole: Modulation of degradation mechanism by calcination temperature. Journal of Hazardous Materials, 2021, 418, 126309.	6.5	76
169	Removal of diclofenac from surface water by electron beam irradiation combined with a biological aerated filter. Radiation Physics and Chemistry, 2014, 105, 104-108.	1.4	75
170	Changes in microbial community during biohydrogen production using gamma irradiated sludge as inoculum. Bioresource Technology, 2016, 200, 217-222.	4.8	75
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