

Minghua Zhou

List of Publications by Year in descending order

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220
papers

16,695
citations

11651

70
h-index

18647

119
g-index

221
all docs

221
docs citations

221
times ranked

11128
citing authors

#	ARTICLE	IF	CITATIONS
1	An overview on the removal of synthetic dyes from water by electrochemical advanced oxidation processes. <i>Chemosphere</i> , 2018, 197, 210-227.	8.2	814
2	An overview of electrode materials in microbial fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 4427-4435.	7.8	688
3	Heterogeneous electro-Fenton and photoelectro-Fenton processes: A critical review of fundamental principles and application for water/wastewater treatment. <i>Applied Catalysis B: Environmental</i> , 2018, 235, 103-129.	20.2	631
4	Three-dimensional electrochemical process for wastewater treatment: A general review. <i>Chemical Engineering Journal</i> , 2013, 228, 455-467.	12.7	436
5	A critical review of the application of chelating agents to enable Fenton and Fenton-like reactions at high pH values. <i>Journal of Hazardous Materials</i> , 2019, 362, 436-450.	12.4	353
6	Highly efficient electrosynthesis of hydrogen peroxide on a superhydrophobic three-phase interface by natural air diffusion. <i>Nature Communications</i> , 2020, 11, 1731.	12.8	325
7	Electro-Fenton method for the removal of methyl red in an efficient electrochemical system. <i>Separation and Purification Technology</i> , 2007, 57, 380-387.	7.9	285
8	Cost-effective electro-Fenton using modified graphite felt that dramatically enhanced on H ₂ O ₂ electro-generation without external aeration. <i>Electrochimica Acta</i> , 2015, 163, 182-189.	5.2	262
9	Heterogeneous electro-Fenton using modified iron-carbon as catalyst for 2,4-dichlorophenol degradation: Influence factors, mechanism and degradation pathway. <i>Water Research</i> , 2015, 70, 414-424.	11.3	254
10	Long Life Modified Lead Dioxide Anode for Organic Wastewater Treatment: Electrochemical Characteristics and Degradation Mechanism. <i>Environmental Science & Technology</i> , 2005, 39, 363-370.	10.0	251
11	Microbial fuel cell (MFC) power performance improvement through enhanced microbial electrogenicity. <i>Biotechnology Advances</i> , 2018, 36, 1316-1327.	11.7	247
12	High-efficiency degradation of organic pollutants with Fe, N co-doped biochar catalysts via persulfate activation. <i>Journal of Hazardous Materials</i> , 2020, 397, 122764.	12.4	224
13	A novel dual gas diffusion electrodes system for efficient hydrogen peroxide generation used in electro-Fenton. <i>Chemical Engineering Journal</i> , 2015, 263, 92-100.	12.7	218
14	Recent advances in microbial fuel cells (MFCs) and microbial electrolysis cells (MECs) for wastewater treatment, bioenergy and bioproducts. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 508-518.	3.2	211
15	Electrochemical catalytic mechanism of N-doped graphene for enhanced H ₂ O ₂ yield and in-situ degradation of organic pollutant. <i>Applied Catalysis B: Environmental</i> , 2019, 245, 583-595.	20.2	204
16	Chemically modified graphite felt as an efficient cathode in electro-Fenton for p-nitrophenol degradation. <i>Electrochimica Acta</i> , 2014, 140, 376-383.	5.2	192
17	Electrogeneration of hydrogen peroxide for electro-Fenton system by oxygen reduction using chemically modified graphite felt cathode. <i>Separation and Purification Technology</i> , 2013, 111, 131-136.	7.9	189
18	Degradation of organics in reverse osmosis concentrate by electro-Fenton process. <i>Journal of Hazardous Materials</i> , 2012, 215-216, 287-293.	12.4	186

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19	A Novel Electro-Fenton Process with H ₂ O ₂ Generation in a Rotating Disk Reactor for Organic Pollutant Degradation. <i>Environmental Science and Technology Letters</i> , 2014, 1, 320-324.	8.7	176
20	Microbial fuel cell hybrid systems for wastewater treatment and bioenergy production: Synergistic effects, mechanisms and challenges. <i>Renewable and Sustainable Energy Reviews</i> , 2019, 103, 13-29.	16.4	171
21	Partial Degradation of Phenol by Advanced Electrochemical Oxidation Process. <i>Environmental Science & Technology</i> , 2001, 35, 2698-2703.	10.0	170
22	Preparation of photocatalytic TiO ₂ coatings of nanosized particles on activated carbon by AP-MOCVD. <i>Carbon</i> , 2005, 43, 1700-1708.	10.3	162
23	Electro-Fenton degradation of p-nitrophenol using the anodized graphite felts. <i>Chemical Engineering Journal</i> , 2013, 233, 185-192.	12.7	161
24	A highly energy-efficient flow-through electro-Fenton process for organic pollutants degradation. <i>Electrochimica Acta</i> , 2016, 200, 222-230.	5.2	156
25	Extremely efficient electrochemical degradation of organic pollutants with co-generation of hydroxyl and sulfate radicals on Blue-TiO ₂ nanotubes anode. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117902.	20.2	154
26	Ultra-high yield of hydrogen peroxide on graphite felt cathode modified with electrochemically exfoliated graphene. <i>Journal of Materials Chemistry A</i> , 2017, 5, 8070-8080.	10.3	150
27	Advances in bioleaching for recovery of metals and bioremediation of fuel ash and sewage sludge. <i>Bioresource Technology</i> , 2018, 261, 428-440.	9.6	146
28	A novel vertical-flow electro-Fenton reactor for organic wastewater treatment. <i>Chemical Engineering Journal</i> , 2016, 298, 55-67.	12.7	143
29	Application of glow discharge plasma for wastewater treatment. <i>Electrochimica Acta</i> , 2012, 83, 501-512.	5.2	142
30	A biochar modified nickel-foam cathode with iron-foam catalyst in electro-Fenton for sulfamerazine degradation. <i>Applied Catalysis B: Environmental</i> , 2019, 256, 117796.	20.2	142
31	A comparative experimental study on methyl orange degradation by electrochemical oxidation on BDD and MMO electrodes. <i>Separation and Purification Technology</i> , 2011, 78, 290-297.	7.9	140
32	Two-step mineralization of Tartrazine solutions: Study of parameters and by-products during the coupling of electrocoagulation with electrochemical advanced oxidation processes. <i>Applied Catalysis B: Environmental</i> , 2014, 150-151, 116-125.	20.2	137
33	Nitrate removal from groundwater by a novel three-dimensional electrode biofilm reactor. <i>Electrochimica Acta</i> , 2007, 52, 6052-6059.	5.2	131
34	Oxidation of Rhodamine B by persulfate activated with porous carbon aerogel through a non-radical mechanism. <i>Journal of Hazardous Materials</i> , 2018, 358, 53-61.	12.4	130
35	Novel NaY zeolite-supported nanoscale zero-valent iron as an efficient heterogeneous Fenton catalyst. <i>Catalysis Communications</i> , 2010, 11, 937-941.	3.3	128
36	Pre-magnetized FeO/persulfate for notably enhanced degradation and dechlorination of 2,4-dichlorophenol. <i>Chemical Engineering Journal</i> , 2017, 307, 1092-1104.	12.7	128

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37	Iron-based persulfate activation process for environmental decontamination in water and soil. <i>Chemosphere</i> , 2021, 265, 129057.	8.2	122
38	Anode modification by electrochemical oxidation: A new practical method to improve the performance of microbial fuel cells. <i>Biochemical Engineering Journal</i> , 2012, 60, 151-155.	3.6	119
39	Strategies to enhance catalytic performance of metal-organic frameworks in sulfate radical-based advanced oxidation processes for organic pollutants removal. <i>Chemical Engineering Journal</i> , 2021, 403, 126346.	12.7	119
40	Role of the intermediates in the degradation of phenolic compounds by Fenton-like process. <i>Journal of Hazardous Materials</i> , 2006, 136, 859-865.	12.4	117
41	Treatment of high-salinity reverse osmosis concentrate by electrochemical oxidation on BDD and DSA electrodes. <i>Desalination</i> , 2011, 277, 201-206.	8.2	116
42	Enhanced removal of antibiotics from secondary wastewater effluents by novel UV/pre-magnetized Fe ⁰ /H ₂ O ₂ process. <i>Water Research</i> , 2019, 153, 144-159.	11.3	115
43	Internal-micro-electrolysis-enhanced heterogeneous electro-Fenton process catalyzed by Fe/Fe ₃ C@PC core-shell hybrid for sulfamethazine degradation. <i>Chemical Engineering Journal</i> , 2020, 398, 125681.	12.7	113
44	Electrocatalytic destruction of pharmaceutical imatinib by electro-Fenton process with graphene-based cathode. <i>Electrochimica Acta</i> , 2019, 305, 285-294.	5.2	110
45	Power generation enhancement in novel microbial carbon capture cells with immobilized <i>Chlorella vulgaris</i> . <i>Journal of Power Sources</i> , 2012, 214, 216-219.	7.8	108
46	Metomyl Degradation by Electro-Fenton and Electro-Fenton-Like Processes: A Kinetics Study of the Effect of the Nature and Concentration of Some Transition Metal Ions As Catalyst. <i>Journal of Physical Chemistry A</i> , 2010, 114, 10605-10611.	2.5	107
47	Highly efficient and stable Fe ^{II} /Fe ^{III} LDH carbon felt cathode for removal of pharmaceutical ofloxacin at neutral pH. <i>Journal of Hazardous Materials</i> , 2020, 393, 122513.	12.4	107
48	Nanostructured electrodes for electrocatalytic advanced oxidation processes: From materials preparation to mechanisms understanding and wastewater treatment applications. <i>Applied Catalysis B: Environmental</i> , 2021, 296, 120332.	20.2	104
49	Microbial fuel cells for biosensor applications. <i>Biotechnology Letters</i> , 2015, 37, 2357-2364.	2.2	102
50	Co-deposition of photocatalytic Fe doped TiO ₂ coatings by MOCVD. <i>Catalysis Communications</i> , 2006, 7, 427-431.	3.3	99
51	Highly efficient in-situ metal-free electrochemical advanced oxidation process using graphite felt modified with N-doped graphene. <i>Chemical Engineering Journal</i> , 2018, 338, 700-708.	12.7	98
52	Removal of tetracycline by coupling of flow-through electro-Fenton and in-situ regenerative active carbon felt adsorption. <i>Chemical Engineering Journal</i> , 2018, 335, 685-692.	12.7	97
53	Recent updates on electrochemical degradation of bio-refractory organic pollutants using BDD anode: a mini review. <i>Environmental Science and Pollution Research</i> , 2014, 21, 8417-8431.	5.3	93
54	KOH activated N-doped novel carbon aerogel as efficient metal-free oxygen reduction catalyst for microbial fuel cells. <i>Chemical Engineering Journal</i> , 2018, 348, 775-785.	12.7	91

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55	Comprehensive treatment of marine aquaculture wastewater by a cost-effective flow-through electro-oxidation process. <i>Science of the Total Environment</i> , 2020, 722, 137812.	8.0	90
56	TiO ₂ photocatalyst deposition by MOCVD on activated carbon. <i>Carbon</i> , 2006, 44, 325-333.	10.3	86
57	Degradation of azo dye by three clean advanced oxidation processes: Wet oxidation, electrochemical oxidation and wet electrochemical oxidation—A comparative study. <i>Electrochimica Acta</i> , 2007, 53, 1902-1910.	5.2	86
58	A carbon nanotube-confined iron modified cathode with prominent stability and activity for heterogeneous electro-Fenton reactions. <i>Journal of Materials Chemistry A</i> , 2019, 7, 24408-24419.	10.3	84
59	MoS ₂ as highly efficient co-catalyst enhancing the performance of FeO based electro-Fenton process in degradation of sulfamethazine: Approach and mechanism. <i>Chemical Engineering Journal</i> , 2021, 403, 126361.	12.7	84
60	TiO ₂ -NTs/SnO ₂ -Sb anode for efficient electrocatalytic degradation of organic pollutants: Effect of TiO ₂ -NTs architecture. <i>Separation and Purification Technology</i> , 2013, 102, 180-186.	7.9	83
61	Heterogeneous Fenton catalytic degradation of phenol based on controlled release of magnetic nanoparticles. <i>Chemical Engineering Journal</i> , 2014, 242, 1-9.	12.7	80
62	Rolling-made gas diffusion electrode with carbon nanotube for electro-Fenton degradation of acetylsalicylic acid. <i>Chemosphere</i> , 2018, 206, 439-446.	8.2	80
63	Solar photoelectrocatalytic degradation of ciprofloxacin at a FTO/BiVO ₄ /MnO ₂ anode: Kinetics, intermediate products and degradation pathway studies. <i>Journal of Environmental Chemical Engineering</i> , 2020, 8, 103607.	6.7	80
64	Simultaneous sulfadiazines degradation and disinfection from municipal secondary effluent by a flow-through electro-Fenton process with graphene-modified cathode. <i>Journal of Hazardous Materials</i> , 2019, 368, 830-839.	12.4	79
65	Preparation of high efficient photoelectrode of F-codoped TiO ₂ nanotubes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 194, 152-160.	3.9	78
66	Degradation and mechanism of 2,4-dichlorophenoxyacetic acid (2,4-D) by thermally activated persulfate oxidation. <i>Chemosphere</i> , 2018, 212, 784-793.	8.2	78
67	Degradation mechanisms of 4-chlorophenol in a novel gas-liquid hybrid discharge reactor by pulsed high voltage system with oxygen or nitrogen bubbling. <i>Chemosphere</i> , 2007, 67, 702-711.	8.2	77
68	The role of oxygen in the degradation of p-chlorophenol by Fenton system. <i>Journal of Hazardous Materials</i> , 2007, 139, 108-115.	12.4	77
69	Enhancement on the simultaneous removal of nitrate and organic pollutants from groundwater by a three-dimensional bio-electrochemical reactor. <i>Bioresource Technology</i> , 2009, 100, 4662-4668.	9.6	77
70	Reactivity characteristics of poly(methyl methacrylate) coated nanoscale iron particles for trichloroethylene remediation. <i>Journal of Hazardous Materials</i> , 2010, 173, 724-730.	12.4	73
71	Enhanced degradation of 2,4-dichlorophenoxyacetic acid by pre-magnetization Fe-C activated persulfate: Influential factors, mechanism and degradation pathway. <i>Journal of Hazardous Materials</i> , 2018, 353, 454-465.	12.4	73
72	Synergistic degradation of antibiotic sulfamethazine by novel pre-magnetized FeO/PS process enhanced by ultrasound. <i>Chemical Engineering Journal</i> , 2018, 354, 777-789.	12.7	73

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73	Enhanced activation of hydrogen peroxide using nitrogen doped graphene for effective removal of herbicide 2,4-D from water by iron-free electrochemical advanced oxidation. <i>Electrochimica Acta</i> , 2019, 297, 582-592.	5.2	72
74	Degradation of cationic red X-GRL by electrochemical oxidation on modified PbO ₂ electrode. <i>Journal of Hazardous Materials</i> , 2008, 153, 357-363.	12.4	71
75	Pulsed discharge plasma induced Fenton-like reactions for the enhancement of the degradation of 4-chlorophenol in water. <i>Chemosphere</i> , 2007, 66, 2185-2192.	8.2	70
76	Preparation of an Ag@TiO ₂ photocatalyst coated on activated carbon by MOCVD. <i>Materials Chemistry and Physics</i> , 2005, 91, 73-79.	4.0	68
77	The role of activated carbon on the removal of p-nitrophenol in an integrated three-phase electrochemical reactor. <i>Chemosphere</i> , 2006, 65, 1197-1203.	8.2	68
78	Modified iron-carbon as heterogeneous electro-Fenton catalyst for organic pollutant degradation in near neutral pH condition: Characterization, degradation activity and stability. <i>Electrochimica Acta</i> , 2015, 160, 254-262.	5.2	68
79	Indirect electrochemical oxidation of 2,4-dichlorophenoxyacetic acid using electrochemically-generated persulfate. <i>Chemosphere</i> , 2018, 204, 163-169.	8.2	65
80	A flow-through electro-Fenton process using modified activated carbon fiber cathode for orange II removal. <i>Chemosphere</i> , 2020, 252, 126483.	8.2	64
81	Degradation of 2,4-dichlorophenoxyacetic acid by anodic oxidation and electro-Fenton using BDD anode: Influencing factors and mechanism. <i>Separation and Purification Technology</i> , 2020, 230, 115867.	7.9	63
82	Preparation of anatase TiO ₂ supported on alumina by different metal organic chemical vapor deposition methods. <i>Applied Catalysis A: General</i> , 2005, 282, 285-293.	4.3	62
83	Synergistic effects of liquid and gas phase discharges using pulsed high voltage for dyes degradation in the presence of oxygen. <i>Chemosphere</i> , 2005, 60, 405-411.	8.2	62
84	A new electrochemically active bacterium phylogenetically related to <i>Tolomonas osonensis</i> and power performance in MFCs. <i>Bioresource Technology</i> , 2013, 139, 141-148.	9.6	62
85	Formations of Active Species and By-Products in Water by Pulsed High-Voltage Discharge. <i>Plasma Chemistry and Plasma Processing</i> , 2007, 27, 337-348.	2.4	61
86	Effect of various gases and chemical catalysts on phenol degradation pathways by pulsed electrical discharges. <i>Journal of Hazardous Materials</i> , 2008, 150, 713-722.	12.4	61
87	Highly efficient advanced oxidation processes (AOPs) based on pre-magnetization Fe ⁰ for wastewater treatment. <i>Separation and Purification Technology</i> , 2017, 178, 49-55.	7.9	60
88	Kinetic model of 4-CP degradation by Fenton/O ₂ system. <i>Water Research</i> , 2007, 41, 1121-1133.	11.3	59
89	Cost-efficient improvement of coking wastewater biodegradability by multi-stages flow through peroxi-coagulation under low current load. <i>Water Research</i> , 2019, 154, 336-348.	11.3	59
90	Significant enhancement in treatment of salty wastewater by pre-magnetization Fe ⁰ /H ₂ O ₂ process. <i>Chemical Engineering Journal</i> , 2018, 339, 411-423.	12.7	58

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91	Highly energy-efficient removal of acrylonitrile by peroxi-coagulation with modified graphite felt cathode: Influence factors, possible mechanism. <i>Chemical Engineering Journal</i> , 2018, 343, 467-476.	12.7	58
92	Recent advances in electro-Fenton process and its emerging applications. <i>Critical Reviews in Environmental Science and Technology</i> , 2023, 53, 887-913.	12.8	57
93	Efficient degradation of p-nitrophenol by electro-oxidation on Fe doped Ti/TiO ₂ nanotube/PbO ₂ anode. <i>Separation and Purification Technology</i> , 2014, 128, 67-71.	7.9	54
94	A photosynthetic algal microbial fuel cell for treating swine wastewater. <i>Environmental Science and Pollution Research</i> , 2019, 26, 6182-6190.	5.3	54
95	Carbon dioxide sequestration accompanied by bioenergy generation using a bubbling-type photosynthetic algae microbial fuel cell. <i>Bioresource Technology</i> , 2019, 280, 95-103.	9.6	54
96	A novel stacked flow-through electro-Fenton reactor as decentralized system for the simultaneous removal of pollutants (COD, NH ₃ -N and TP) and disinfection from domestic sewage containing chloride ions. <i>Chemical Engineering Journal</i> , 2020, 387, 124037.	12.7	54
97	Enhanced removal of emerging contaminants using persulfate activated by UV and pre-magnetized FeO. <i>Chemical Engineering Journal</i> , 2019, 361, 908-918.	12.7	52
98	Anodic oxidation of organic pollutants: Anode fabrication, process hybrid and environmental applications. <i>Current Opinion in Electrochemistry</i> , 2021, 26, 100659.	4.8	52
99	High electron transfer rate and efficiency on FeO modified by sulfidation and pre-magnetization for carbamazepine degradation by heterogeneous electro-Fenton in wide pH ranges. <i>Chemical Engineering Journal</i> , 2022, 427, 131694.	12.7	52
100	The combination of rotating disk photocatalytic reactor and TiO ₂ nanotube arrays for environmental pollutants removal. <i>Journal of Hazardous Materials</i> , 2011, 186, 1374-1383.	12.4	51
101	Degradation of diclofenac by H ₂ O ₂ activated with pre-magnetization FeO: Influencing factors and degradation pathways. <i>Chemosphere</i> , 2018, 212, 853-862.	8.2	51
102	Novel Fenton-like process (pre-magnetized FeO/H ₂ O ₂) for efficient degradation of organic pollutants. <i>Separation and Purification Technology</i> , 2016, 169, 83-92.	7.9	50
103	Disinfection of simulated ballast water by a flow-through electro-peroxone process. <i>Chemical Engineering Journal</i> , 2018, 348, 485-493.	12.7	50
104	EDTA, oxalate, and phosphate ions enhanced reactive oxygen species generation and sulfamethazine removal by zero-valent iron. <i>Journal of Hazardous Materials</i> , 2020, 391, 122210.	12.4	49
105	Simultaneous removal of tetracycline and disinfection by a flow-through electro-peroxone process for reclamation from municipal secondary effluent. <i>Journal of Hazardous Materials</i> , 2019, 368, 771-777.	12.4	48
106	Enhancement of hydrogen peroxide production by electrochemical reduction of oxygen on carbon nanotubes modified with fluorine. <i>Chemosphere</i> , 2020, 259, 127423.	8.2	48
107	Electro-Fenton and photoelectro-Fenton degradation of sulfamethazine using an active gas diffusion electrode without aeration. <i>Chemosphere</i> , 2020, 250, 126177.	8.2	48
108	A novel fluidized electrochemical reactor for organic pollutant abatement. <i>Separation and Purification Technology</i> , 2004, 34, 81-88.	7.9	47

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109	Photoelectrochemical degradation of 2,4-dichlorophenoxyacetic acid using electrochemically self-doped Blue TiO ₂ nanotube arrays with formic acid as electrolyte. <i>Journal of Hazardous Materials</i> , 2020, 382, 121096.	12.4	47
110	Efficient H ₂ O ₂ generation and spontaneous OH conversion for in-situ phenol degradation on nitrogen-doped graphene: Pyrolysis temperature regulation and catalyst regeneration mechanism. <i>Journal of Hazardous Materials</i> , 2020, 397, 122681.	12.4	47
111	Simultaneous wastewater treatment, electricity generation and biomass production by an immobilized photosynthetic algal microbial fuel cell. <i>Bioprocess and Biosystems Engineering</i> , 2014, 37, 873-880.	3.4	46
112	Fabrication of multi-non-metal-doped TiO ₂ nanotubes by anodization in mixed acid electrolyte. <i>Materials Research Bulletin</i> , 2007, 42, 2230-2236.	5.2	44
113	Confined FeO@CNTs for highly efficient and super stable activation of persulfate in wide pH ranges: Radicals and non-radical co-catalytic mechanism. <i>Chemical Engineering Journal</i> , 2021, 420, 129446.	12.7	44
114	Effect of Sodium Ion Concentration on Hydrogen Production from Sucrose by Anaerobic Hydrogen-producing Granular Sludge. <i>Chinese Journal of Chemical Engineering</i> , 2006, 14, 511-517.	3.5	43
115	Electrocatalytic generation of homogeneous and heterogeneous hydroxyl radicals for cold mineralization of anti-cancer drug Imatinib. <i>Chemical Engineering Journal</i> , 2020, 383, 123155.	12.7	43
116	Iron-carbon microelectrolysis for wastewater remediation: Preparation, performance and interaction mechanisms. <i>Chemosphere</i> , 2021, 278, 130483.	8.2	43
117	Highly efficient dual-cathode Electro-Fenton process without aeration at a wide pH range: Simultaneously enhancing Fe(II) regeneration and mineralization efficiency. <i>Chemical Engineering Journal</i> , 2022, 429, 132436.	12.7	43
118	Nitrogen-doped activated carbon as metal-free oxygen reduction catalyst for cost-effective rolling-pressed air-cathode in microbial fuel cells. <i>Fuel</i> , 2018, 223, 422-430.	6.4	41
119	Trace FeCu@PC Derived from MOFs for Ultraefficient Heterogeneous Electro-Fenton Process: Enhanced Electron Transfer and Bimetallic Synergy. <i>ACS ES&T Engineering</i> , 2021, 1, 1311-1322.	7.6	41
120	A comparison of coagulant dosing options for the remediation of molasses process water. <i>Separation and Purification Technology</i> , 2008, 58, 347-352.	7.9	40
121	Titanium dioxide nanoparticles modified three dimensional ordered macroporous carbon for improved energy output in microbial fuel cells. <i>Electrochimica Acta</i> , 2016, 190, 463-470.	5.2	40
122	Preparation of transition metal composite graphite felt cathode for efficient heterogeneous electro-Fenton process. <i>Environmental Science and Pollution Research</i> , 2017, 24, 1122-1132.	5.3	39
123	Stable boron and cobalt co-doped TiO ₂ nanotubes anode for efficient degradation of organic pollutants. <i>Journal of Hazardous Materials</i> , 2020, 396, 122723.	12.4	39
124	Degradation of 4-chlorophenol in different gas-liquid electrical discharge reactors. <i>Chemical Engineering Journal</i> , 2007, 132, 325-333.	12.7	38
125	Characterization of a novel strain phylogenetically related to <i>Kocuria rhizophila</i> and its chemical modification to improve performance of microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2015, 69, 113-120.	10.1	38
126	Novel rolling-made gas-diffusion electrode loading trace transition metal for efficient heterogeneous electro-Fenton-like. <i>Journal of Environmental Chemical Engineering</i> , 2016, 4, 4400-4408.	6.7	38

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127	Highly efficient persulfate oxidation process activated with pre-magnetization Fe ₀ . Chemical Engineering Journal, 2017, 318, 50-56.	12.7	38
128	ELECTROCATALYTIC DEGRADATION OF PHENOL IN ACIDIC AND SALINE WASTEWATER. Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering, 2002, 37, 1263-1275.	1.7	37
129	A new type of continuous-flow heterogeneous electro-Fenton reactor for Tartrazine degradation. Separation and Purification Technology, 2019, 208, 76-82.	7.9	37
130	A comparative study of azo dye decolorization by electro-Fenton in two common electrolytes. Journal of Chemical Technology and Biotechnology, 2009, 84, 1544-1549.	3.2	36
131	Nanoscale zero-valent iron/AC as heterogeneous Fenton catalysts in three-dimensional electrode system. Environmental Science and Pollution Research, 2014, 21, 8398-8405.	5.3	36
132	Decolorization of cationic red X-GRL by wet air oxidation: Performance optimization and degradation mechanism. Chemosphere, 2007, 68, 1135-1142.	8.2	35
133	Enhanced activation of persulfate by carbohydrate-derived carbon cryogels for effective removal of organic pollutants. Chemical Engineering Journal, 2018, 352, 673-681.	12.7	35
134	Role of adsorption and oxidation in porous carbon aerogel/persulfate system for non-radical degradation of organic contaminant. Chemosphere, 2020, 241, 125066.	8.2	35
135	Wastewater Treatment Using a Heterogeneous Magnetite (Fe ₃ O ₄) Non-Thermal Plasma Process. Plasma Processes and Polymers, 2007, 4, 455-462.	3.0	34
136	Improving the yield of hydrogen peroxide on gas diffusion electrode modified with tert-butyl-anthraquinone on different carbon support. Electrochimica Acta, 2019, 320, 134552.	5.2	34
137	Dual strategies to enhance mineralization efficiency in innovative electrochemical advanced oxidation processes using natural air diffusion electrode: Improving both H ₂ O ₂ production and utilization efficiency. Chemical Engineering Journal, 2021, 413, 127564.	12.7	34
138	p-Nitrophenol abatement by the combination of electrocatalysis and activated carbon. Chemical Engineering Journal, 2005, 106, 83-90.	12.7	33
139	An improved multi-anode contact glow discharge electrolysis reactor for dye discoloration. Electrochimica Acta, 2012, 59, 474-478.	5.2	33
140	Generation of hydroxyl radicals by metal-free bifunctional electrocatalysts for enhanced organics removal. Science of the Total Environment, 2021, 791, 148107.	8.0	33
141	Removal of Cr(VI) with Cogeneration of Electricity by an Alkaline Fuel Cell Reactor. Journal of Physical Chemistry C, 2013, 117, 14479-14484.	3.1	32
142	Pre-magnetized Fe ₀ as heterogeneous electro-Fenton catalyst for the degradation of p-nitrophenol at neutral pH. Chemosphere, 2020, 240, 124962.	8.2	31
143	Kinetic and mechanism study of UV/pre-magnetized-Fe ₀ /oxalate for removing sulfamethazine. Journal of Hazardous Materials, 2020, 398, 122931.	12.4	31
144	Electrosorption driven by microbial fuel cells to remove phenol without external power supply. Bioresource Technology, 2013, 150, 271-277.	9.6	30

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145	Insights into transition metal encapsulated N-doped CNTs cathode for self-sufficient electrocatalytic degradation. <i>Applied Catalysis B: Environmental</i> , 2022, 313, 121457.	20.2	30
146	An improved UV/Fe ³⁺ process by combination with electrocatalysis for p-nitrophenol degradation. <i>Chemosphere</i> , 2006, 63, 1032-1040.	8.2	29
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