

Minghua Zhou

List of Publications by Year in descending order

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220
papers

16,695
citations

11608

70
h-index

18606

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.	4.2	814
2	An overview of electrode materials in microbial fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 4427-4435.	4.0	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.	10.8	631
4	Three-dimensional electrochemical process for wastewater treatment: A general review. <i>Chemical Engineering Journal</i> , 2013, 228, 455-467.	6.6	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.	6.5	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.	5.8	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.	3.9	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.	2.6	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.	5.3	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.	4.6	251
11	Microbial fuel cell (MFC) power performance improvement through enhanced microbial electrogenicity. <i>Biotechnology Advances</i> , 2018, 36, 1316-1327.	6.0	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.	6.5	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.	6.6	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.	1.6	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.	10.8	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.	2.6	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.	3.9	189
18	Degradation of organics in reverse osmosis concentrate by electro-Fenton process. <i>Journal of Hazardous Materials</i> , 2012, 215-216, 287-293.	6.5	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.	3.9	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.	8.2	171
21	Partial Degradation of Phenol by Advanced Electrochemical Oxidation Process. <i>Environmental Science & Technology</i> , 2001, 35, 2698-2703.	4.6	170
22	Preparation of photocatalytic TiO ₂ coatings of nanosized particles on activated carbon by AP-MOCVD. <i>Carbon</i> , 2005, 43, 1700-1708.	5.4	162
23	Electro-Fenton degradation of p-nitrophenol using the anodized graphite felts. <i>Chemical Engineering Journal</i> , 2013, 233, 185-192.	6.6	161
24	A highly energy-efficient flow-through electro-Fenton process for organic pollutants degradation. <i>Electrochimica Acta</i> , 2016, 200, 222-230.	2.6	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.	10.8	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.	5.2	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.	4.8	146
28	A novel vertical-flow electro-Fenton reactor for organic wastewater treatment. <i>Chemical Engineering Journal</i> , 2016, 298, 55-67.	6.6	143
29	Application of glow discharge plasma for wastewater treatment. <i>Electrochimica Acta</i> , 2012, 83, 501-512.	2.6	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.	10.8	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.	3.9	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.	10.8	137
33	Nitrate removal from groundwater by a novel three-dimensional electrode biofilm reactor. <i>Electrochimica Acta</i> , 2007, 52, 6052-6059.	2.6	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.	6.5	130
35	Novel NaY zeolite-supported nanoscale zero-valent iron as an efficient heterogeneous Fenton catalyst. <i>Catalysis Communications</i> , 2010, 11, 937-941.	1.6	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.	6.6	128

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37	Iron-based persulfate activation process for environmental decontamination in water and soil. <i>Chemosphere</i> , 2021, 265, 129057.	4.2	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.	1.8	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.	6.6	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.	6.5	117
41	Treatment of high-salinity reverse osmosis concentrate by electrochemical oxidation on BDD and DSA electrodes. <i>Desalination</i> , 2011, 277, 201-206.	4.0	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.	5.3	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.	6.6	113
44	Electrocatalytic destruction of pharmaceutical imatinib by electro-Fenton process with graphene-based cathode. <i>Electrochimica Acta</i> , 2019, 305, 285-294.	2.6	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.	4.0	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.	1.1	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.	6.5	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.	10.8	104
49	Microbial fuel cells for biosensor applications. <i>Biotechnology Letters</i> , 2015, 37, 2357-2364.	1.1	102
50	Co-deposition of photocatalytic Fe doped TiO ₂ coatings by MOCVD. <i>Catalysis Communications</i> , 2006, 7, 427-431.	1.6	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.	6.6	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.	6.6	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.	2.7	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.	6.6	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.	3.9	90
56	TiO ₂ photocatalyst deposition by MOCVD on activated carbon. <i>Carbon</i> , 2006, 44, 325-333.	5.4	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.	2.6	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.	5.2	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.	6.6	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.	3.9	83
61	Heterogeneous Fenton catalytic degradation of phenol based on controlled release of magnetic nanoparticles. <i>Chemical Engineering Journal</i> , 2014, 242, 1-9.	6.6	80
62	Rolling-made gas diffusion electrode with carbon nanotube for electro-Fenton degradation of acetylsalicylic acid. <i>Chemosphere</i> , 2018, 206, 439-446.	4.2	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.	3.3	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.	6.5	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.	2.0	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.	4.2	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.	4.2	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.	6.5	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.	4.8	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.	6.5	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.	6.5	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.	6.6	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.	2.6	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.	6.5	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.	4.2	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.	2.0	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.	4.2	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.	2.6	68
79	Indirect electrochemical oxidation of 2,4-dichlorophenoxyacetic acid using electrochemically-generated persulfate. <i>Chemosphere</i> , 2018, 204, 163-169.	4.2	65
80	A flow-through electro-Fenton process using modified activated carbon fiber cathode for orange II removal. <i>Chemosphere</i> , 2020, 252, 126483.	4.2	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.	3.9	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.	2.2	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.	4.2	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.	4.8	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.	1.1	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.	6.5	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.	3.9	60
88	Kinetic model of 4-CP degradation by Fenton/O ₂ system. <i>Water Research</i> , 2007, 41, 1121-1133.	5.3	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.	5.3	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.	6.6	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.	6.6	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.	6.6	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.	3.9	54
94	A photosynthetic algal microbial fuel cell for treating swine wastewater. <i>Environmental Science and Pollution Research</i> , 2019, 26, 6182-6190.	2.7	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.	4.8	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.	6.6	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.	6.6	52
98	Anodic oxidation of organic pollutants: Anode fabrication, process hybrid and environmental applications. <i>Current Opinion in Electrochemistry</i> , 2021, 26, 100659.	2.5	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.	6.6	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.	6.5	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.	4.2	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.	3.9	50
103	Disinfection of simulated ballast water by a flow-through electro-peroxone process. <i>Chemical Engineering Journal</i> , 2018, 348, 485-493.	6.6	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.	6.5	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.	6.5	48
106	Enhancement of hydrogen peroxide production by electrochemical reduction of oxygen on carbon nanotubes modified with fluorine. <i>Chemosphere</i> , 2020, 259, 127423.	4.2	48
107	Electro-Fenton and photoelectro-Fenton degradation of sulfamethazine using an active gas diffusion electrode without aeration. <i>Chemosphere</i> , 2020, 250, 126177.	4.2	48
108	A novel fluidized electrochemical reactor for organic pollutant abatement. <i>Separation and Purification Technology</i> , 2004, 34, 81-88.	3.9	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.	6.5	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.	6.5	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.	1.7	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.	2.7	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.	6.6	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.	1.7	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.	6.6	43
116	Iron-carbon microelectrolysis for wastewater remediation: Preparation, performance and interaction mechanisms. <i>Chemosphere</i> , 2021, 278, 130483.	4.2	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.	6.6	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.	3.4	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.	3.7	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.	3.9	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.	2.6	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.	2.7	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.	6.5	39
124	Degradation of 4-chlorophenol in different gas-liquid electrical discharge reactors. <i>Chemical Engineering Journal</i> , 2007, 132, 325-333.	6.6	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.	5.3	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.	3.3	38

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127	Highly efficient persulfate oxidation process activated with pre-magnetization Fe ₀ . <i>Chemical Engineering Journal</i> , 2017, 318, 50-56.	6.6	38
128	ELECTROCATALYTIC DEGRADATION OF PHENOL IN ACIDIC AND SALINE WASTEWATER. <i>Journal of Environmental Science and Health - Part A Toxic/Hazardous Substances and Environmental Engineering</i> , 2002, 37, 1263-1275.	0.9	37
129	A new type of continuous-flow heterogeneous electro-Fenton reactor for Tartrazine degradation. <i>Separation and Purification Technology</i> , 2019, 208, 76-82.	3.9	37
130	A comparative study of azo dye decolorization by electro-Fenton in two common electrolytes. <i>Journal of Chemical Technology and Biotechnology</i> , 2009, 84, 1544-1549.	1.6	36
131	Nanoscale zero-valent iron/AC as heterogeneous Fenton catalysts in three-dimensional electrode system. <i>Environmental Science and Pollution Research</i> , 2014, 21, 8398-8405.	2.7	36
132	Decolorization of cationic red X-GRL by wet air oxidation: Performance optimization and degradation mechanism. <i>Chemosphere</i> , 2007, 68, 1135-1142.	4.2	35
133	Enhanced activation of persulfate by carbohydrate-derived carbon cryogels for effective removal of organic pollutants. <i>Chemical Engineering Journal</i> , 2018, 352, 673-681.	6.6	35
134	Role of adsorption and oxidation in porous carbon aerogel/persulfate system for non-radical degradation of organic contaminant. <i>Chemosphere</i> , 2020, 241, 125066.	4.2	35
135	Wastewater Treatment Using a Heterogeneous Magnetite (Fe ₃ O ₄) Non-Thermal Plasma Process. <i>Plasma Processes and Polymers</i> , 2007, 4, 455-462.	1.6	34
136	Improving the yield of hydrogen peroxide on gas diffusion electrode modified with tert-butyl-anthraquinone on different carbon support. <i>Electrochimica Acta</i> , 2019, 320, 134552.	2.6	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. <i>Chemical Engineering Journal</i> , 2021, 413, 127564.	6.6	34
138	p-Nitrophenol abatement by the combination of electrocatalysis and activated carbon. <i>Chemical Engineering Journal</i> , 2005, 106, 83-90.	6.6	33
139	An improved multi-anode contact glow discharge electrolysis reactor for dye discoloration. <i>Electrochimica Acta</i> , 2012, 59, 474-478.	2.6	33
140	Generation of hydroxyl radicals by metal-free bifunctional electrocatalysts for enhanced organics removal. <i>Science of the Total Environment</i> , 2021, 791, 148107.	3.9	33
141	Removal of Cr(VI) with Cogeneration of Electricity by an Alkaline Fuel Cell Reactor. <i>Journal of Physical Chemistry C</i> , 2013, 117, 14479-14484.	1.5	32
142	Pre-magnetized Fe ₀ as heterogeneous electro-Fenton catalyst for the degradation of p-nitrophenol at neutral pH. <i>Chemosphere</i> , 2020, 240, 124962.	4.2	31
143	Kinetic and mechanism study of UV/pre-magnetized-Fe ₀ /oxalate for removing sulfamethazine. <i>Journal of Hazardous Materials</i> , 2020, 398, 122931.	6.5	31
144	Electrosorption driven by microbial fuel cells to remove phenol without external power supply. <i>Bioresource Technology</i> , 2013, 150, 271-277.	4.8	30

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