

Minghua Zhou

List of Publications by Year in descending order

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Version: 2024-02-01

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	Recent advances in H ₂ O ₂ -based advanced oxidation processes for removal of antibiotics from wastewater. <i>Chinese Chemical Letters</i> , 2023, 34, 107621.	4.8	28
2	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
3	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
4	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
5	Enhanced electricity generation and tetracycline removal of bioelectro-Fenton with electroactive biofilm induced by multi external resistance. <i>Chemosphere</i> , 2022, 289, 133070.	4.2	5
6	Enhanced degradation of 2,4-dichlorophenoxyacetic acid by electro-fenton in flow-through system using B, Co-TNT anode. <i>Chemosphere</i> , 2022, 292, 133470.	4.2	12
7	A flow-through UV/electro-chlorine process for cost-effective and multifunctional purification of marine aquaculture wastewater. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107262.	3.3	10
8	Hydrogen peroxide generation from gas diffusion electrode for electrochemical degradation of organic pollutants in water: A review. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107882.	3.3	13
9	Insight into the dual-cathode peroxi-coagulation process for cost-effective treatment of organic wastewater: Increase pH application range and reduce iron sludge. <i>Chemical Engineering Journal</i> , 2022, 444, 136590.	6.6	9
10	Insights into transition metal encapsulated N-doped CNTs cathode for self-sufficient electrocatalytic degradation. <i>Applied Catalysis B: Environmental</i> , 2022, 313, 121457.	10.8	30
11	Enhanced removal of organic contaminants by novel iron-carbon and premagnetization: Performance and enhancement mechanism. <i>Chemosphere</i> , 2022, 303, 135060.	4.2	7
12	A critical review on cathode modification methods for efficient Electro-Fenton degradation of persistent organic pollutants. <i>Chemical Engineering Journal</i> , 2022, 450, 137948.	6.6	27
13	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
14	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
15	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
16	Iron-based persulfate activation process for environmental decontamination in water and soil. <i>Chemosphere</i> , 2021, 265, 129057.	4.2	122
17	Anodic oxidation of organic pollutants: Anode fabrication, process hybrid and environmental applications. <i>Current Opinion in Electrochemistry</i> , 2021, 26, 100659.	2.5	52
18	Degradation of 2,4-dichlorophenoxyacetic acid by a novel photoelectrocatalysis/photoelectro-Fenton process using Blue-TiO ₂ nanotube arrays as the anode. <i>Chemosphere</i> , 2021, 266, 129063.	4.2	17

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19	Highly cost-effective removal of 2,4-dichlorophenoxyacetic acid by peroxi-coagulation using natural air diffusion electrode. <i>Electrochimica Acta</i> , 2021, 377, 138079.	2.6	10
20	Hybrid electro-Fenton and peroxi-coagulation process for high removal of 2,4-dichlorophenoxyacetic acid with low iron sludge generation. <i>Electrochimica Acta</i> , 2021, 382, 138304.	2.6	14
21	Mechanistic Insight into the Heterogeneous Electro-Fenton/Sulfite Process for Ultraefficient Degradation of Pollutants over a Wide pH Range. <i>ACS ES&T Water</i> , 2021, 1, 1637-1647.	2.3	28
22	Enhanced bioenergy recovery and nutrient removal from swine wastewater using an airlift-type photosynthetic microbial fuel cell. <i>Energy</i> , 2021, 226, 120422.	4.5	26
23	A continuous flow-through system with integration of electrosorption and peroxi-coagulation for efficient removal of organics. <i>Chemosphere</i> , 2021, 274, 129983.	4.2	14
24	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
25	The radical and non-radical oxidation mechanism of electrochemically activated persulfate process on different cathodes in divided and undivided cell. <i>Journal of Hazardous Materials</i> , 2021, 416, 125804.	6.5	18
26	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
27	Iron-carbon microelectrolysis for wastewater remediation: Preparation, performance and interaction mechanisms. <i>Chemosphere</i> , 2021, 278, 130483.	4.2	43
28	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
29	New insights into the effect of adsorption on catalysis in the metal-free persulfate activation process for removing organic pollutants. <i>Separation and Purification Technology</i> , 2021, 272, 118923.	3.9	17
30	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
31	Nanoscale confinement in carbon nanotubes encapsulated zero-valent iron for phenolics degradation by heterogeneous Fenton: Spatial effect and structure-activity relationship. <i>Separation and Purification Technology</i> , 2021, 276, 119232.	3.9	16
32	Treatment of reverse osmosis concentrate from industrial coal wastewater using an electro-peroxone process with a natural air diffusion electrode. <i>Separation and Purification Technology</i> , 2021, 279, 119667.	3.9	17
33	A novel UV based advanced oxidation process with electrochemical co-generation of chlorine and H ₂ O ₂ for carbamazepine abatement: Better performance, lower energy consumption and less DBPs formation. <i>Chemical Engineering Journal</i> , 2021, 425, 131857.	6.6	22
34	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
35	Kinetic study of the degradation of rhodamine B using a flow-through UV/electro-Fenton process with the presence of ethylenediaminetetraacetic acid. <i>Chemosphere</i> , 2020, 240, 124929.	4.2	20
36	Pre-magnetized FeO as heterogeneous electro-Fenton catalyst for the degradation of p-nitrophenol at neutral pH. <i>Chemosphere</i> , 2020, 240, 124962.	4.2	31

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37	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
38	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
39	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
40	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
41	Activated Carbon Derived from Rice Husk as Efficient Oxygen Reduction Catalyst in Microbial Fuel Cell. <i>Electroanalysis</i> , 2020, 32, 2969-2975.	1.5	22
42	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
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	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
45	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
46	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
47	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
48	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
49	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
50	EDTA enhanced pre-magnetized Fe ₀ /H ₂ O ₂ process for removing sulfamethazine at neutral pH. <i>Separation and Purification Technology</i> , 2020, 250, 117281.	3.9	28
51	Degradation of Diclofenac Sodium by Pre-magnetization Fe ₀ /Persulfate System: Efficiency and Degradation Pathway Study. <i>Water, Air, and Soil Pollution</i> , 2020, 231, 1.	1.1	8
52	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
53	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
54	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

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55	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
56	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
57	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
58	High-efficiency electrogeneration of hydrogen peroxide from oxygen reduction by carbon xerogels derived from glucose. <i>Electrochimica Acta</i> , 2019, 320, 134569.	2.6	22
59	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
60	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
61	A highly efficient flow-through electro-Fenton system enhanced with nitrilotriacetic acid for phenol removal at neutral pH. <i>Science of the Total Environment</i> , 2019, 697, 134173.	3.9	29
62	A photosynthetic algal microbial fuel cell for treating swine wastewater. <i>Environmental Science and Pollution Research</i> , 2019, 26, 6182-6190.	2.7	54
63	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
64	Mechanism study of nitrilotriacetic acid-modified premagnetized Fe ₀ /H ₂ O ₂ for removing sulfamethazine. <i>Chemical Engineering Journal</i> , 2019, 374, 1180-1190.	6.6	26
65	EDTA enhanced removal of sulfamethazine by pre-magnetized Fe ₀ without oxidant addition. <i>Chemical Engineering Journal</i> , 2019, 372, 905-916.	6.6	27
66	Electrocatalytic destruction of pharmaceutical imatinib by electro-Fenton process with graphene-based cathode. <i>Electrochimica Acta</i> , 2019, 305, 285-294.	2.6	110
67	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
68	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
69	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
70	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
71	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
72	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

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73	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
74	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
75	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
76	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
77	Enhanced removal of antibiotics from secondary wastewater effluents by novel UV/pre-magnetized FeO/H ₂ O ₂ process. <i>Water Research</i> , 2019, 153, 144-159.	5.3	115
78	Pre-magnetized FeO activated persulphate for the degradation of nitrobenzene in groundwater. <i>Separation and Purification Technology</i> , 2019, 212, 555-562.	3.9	23
79	Enhancement of CO ₂ biofixation and bioenergy generation using a novel airlift type photosynthetic microbial fuel cell. <i>Bioresource Technology</i> , 2019, 272, 501-509.	4.8	22
80	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
81	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
82	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
83	Indirect electrochemical oxidation of 2,4-dichlorophenoxyacetic acid using electrochemically-generated persulfate. <i>Chemosphere</i> , 2018, 204, 163-169.	4.2	65
84	Facile and fast polyaniline-directed synthesis of monolithic carbon cryogels from glucose. <i>Microporous and Mesoporous Materials</i> , 2018, 265, 26-34.	2.2	14
85	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
86	Significant enhancement in treatment of salty wastewater by pre-magnetization FeO/H ₂ O ₂ process. <i>Chemical Engineering Journal</i> , 2018, 339, 411-423.	6.6	58
87	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
88	Microbial fuel cell (MFC) power performance improvement through enhanced microbial electrogenicity. <i>Biotechnology Advances</i> , 2018, 36, 1316-1327.	6.0	247
89	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
90	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

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91	Disinfection of simulated ballast water by a flow-through electro-peroxone process. <i>Chemical Engineering Journal</i> , 2018, 348, 485-493.	6.6	50
92	Enhanced degradation of Rhodamine B by pre-magnetized Fe ₀ /PS process: Parameters optimization, mechanism and interferences of ions. <i>Separation and Purification Technology</i> , 2018, 203, 66-74.	3.9	27
93	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
94	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
95	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
96	Degradation of diclofenac by H ₂ O ₂ activated with pre-magnetization Fe ₀ : Influencing factors and degradation pathways. <i>Chemosphere</i> , 2018, 212, 853-862.	4.2	51
97	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
98	Enhancement of bioelectricity generation via heterologous expression of IrrE in <i>Pseudomonas aeruginosa</i> -inoculated MFCs. <i>Biosensors and Bioelectronics</i> , 2018, 117, 23-31.	5.3	26
99	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
100	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
101	Synergistic degradation of antibiotic sulfamethazine by novel pre-magnetized Fe ₀ /PS process enhanced by ultrasound. <i>Chemical Engineering Journal</i> , 2018, 354, 777-789.	6.6	73
102	Easily tunable hydrogel-derived heteroatom-doped hierarchically porous carbons as multifunctional materials for supercapacitors, CO ₂ capture and dye removal. <i>Microporous and Mesoporous Materials</i> , 2018, 271, 92-99.	2.2	13
103	Electrochemical advanced oxidation processes for the abatement of persistent organic pollutants. <i>Chemosphere</i> , 2018, 209, 17-19.	4.2	19
104	Highly efficient persulfate oxidation process activated with pre-magnetization Fe ₀ . <i>Chemical Engineering Journal</i> , 2017, 318, 50-56.	6.6	38
105	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
106	Ultrahigh 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
107	Cost-Effective Flow-Through Reactor in Electro-Fenton. <i>Handbook of Environmental Chemistry</i> , 2017, , 241-261.	0.2	1
108	Cathode Modification to Improve Electro-Fenton Performance. <i>Handbook of Environmental Chemistry</i> , 2017, , 175-203.	0.2	1

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109	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
110	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
111	A highly energy-efficient flow-through electro-Fenton process for organic pollutants degradation. <i>Electrochimica Acta</i> , 2016, 200, 222-230.	2.6	156
112	A novel vertical-flow electro-Fenton reactor for organic wastewater treatment. <i>Chemical Engineering Journal</i> , 2016, 298, 55-67.	6.6	143
113	Architectural design of hierarchically meso- and macroporous carbon for microbial fuel cell anodes. <i>RSC Advances</i> , 2016, 6, 27993-27998.	1.7	12
114	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
115	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
116	Cost-effective copper removal by electrosorption powered by microbial fuel cells. <i>Bioprocess and Biosystems Engineering</i> , 2016, 39, 511-519.	1.7	8
117	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
118	Simultaneous electricity generation and tetracycline removal in continuous flow electrosorption driven by microbial fuel cells. <i>RSC Advances</i> , 2015, 5, 49513-49520.	1.7	28
119	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
120	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
121	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
122	A cost-effective polyurethane based activated carbon sponge anode for high-performance microbial fuel cells. <i>RSC Advances</i> , 2015, 5, 84269-84275.	1.7	16
123	Microbial fuel cells for biosensor applications. <i>Biotechnology Letters</i> , 2015, 37, 2357-2364.	1.1	102
124	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
125	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
126	Bioelectrochemistry of Microbial Fuel Cells and their Potential Applications in Bioenergy. , 2014, , 131-152.		9

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127	A first pre-pilot system for the combined treatment of dye pollutants by electrocoagulation/EAOPs. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1136-1144.	1.6	21
128	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
129	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
130	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
131	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
132	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
133	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
134	Effect of matrix on the electrochemical characteristics of TiO ₂ nanotube array-based PbO ₂ electrode for pollutant degradation. <i>Environmental Science and Pollution Research</i> , 2014, 21, 8476-8484.	2.7	16
135	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
136	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
137	Electrochemical surface modification of carbon mesh anode to improve the performance of air-cathode microbial fuel cells. <i>Bioprocess and Biosystems Engineering</i> , 2013, 36, 1889-1896.	1.7	18
138	Microbial fuel cells and microbial electrolysis cells for the production of bioelectricity and biomaterials. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 1915-1928.	1.2	21
139	Reduction of Cr(VI) in aqueous solution with DC diaphragm glow discharge. <i>Electrochimica Acta</i> , 2013, 112, 692-697.	2.6	16
140	Electro-Fenton degradation of p-nitrophenol using the anodized graphite felts. <i>Chemical Engineering Journal</i> , 2013, 233, 185-192.	6.6	161
141	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
142	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
143	Electrosorption driven by microbial fuel cells without electric grid energy consumption for simultaneous phenol removal and wastewater treatment. <i>Electrochemistry Communications</i> , 2013, 34, 121-124.	2.3	16
144	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

#	ARTICLE	IF	CITATIONS
145	Electrochemical scission of C-S bond in ethanethiol on a modified PbO_2 anode in aqueous solution. Separation and Purification Technology, 2013, 109, 72-76.	3.9	8
146	Decolorization of acid orange 7 with DC diaphragm glow discharge. Electrochimica Acta, 2013, 103, 237-242.	2.6	7
147	Electrosorption driven by microbial fuel cells to remove phenol without external power supply. Bioresource Technology, 2013, 150, 271-277.	4.8	30
148	Three-dimensional electrochemical process for wastewater treatment: A general review. Chemical Engineering Journal, 2013, 228, 455-467.	6.6	436
149	TiO ₂ -NTs/SnO ₂ -Sb anode for efficient electrocatalytic degradation of organic pollutants: Effect of TiO ₂ -NTs architecture. Separation and Purification Technology, 2013, 102, 180-186.	3.9	83
150	Removal of Cr(VI) with Cogeneration of Electricity by an Alkaline Fuel Cell Reactor. Journal of Physical Chemistry C, 2013, 117, 14479-14484.	1.5	32
151	Fe ₃ O ₄ nanoparticles as an efficient heterogeneous Fenton catalyst for phenol removal at relatively wide pH values. Water Science and Technology, 2013, 68, 2367-2373.	1.2	27
152	Hydrazine hydrate chemical reduction as an effective anode modification method to improve the performance of microbial fuel cells. Journal of Chemical Technology and Biotechnology, 2013, 88, 2075-2081.	1.6	1
153	Treatment of Reverse Osmosis Concentrates Using a Three-dimensional Electrode Reactor. Current Organic Chemistry, 2012, 16, 2091-2096.	0.9	10
154	Editorial (Hot Topic: Electrochemical Oxidation and Mechanism - Part I). Current Organic Chemistry, 2012, 16, 1950-1950.	0.9	0
155	Editorial: [Hot Topic: Electro-Fenton and Application - Part II]. Current Organic Chemistry, 2012, 16, 2053-2053.	0.9	0
156	On the Kinetics and Mechanism of Electrochemical Decomposition of 3-Chloropyridine in Aqueous Solution. Current Organic Chemistry, 2012, 16, 1972-1977.	0.9	4
157	Power generation enhancement in novel microbial carbon capture cells with immobilized <i>Chlorella vulgaris</i> . Journal of Power Sources, 2012, 214, 216-219.	4.0	108
158	Coupling of anodic and cathodic modification for increased power generation in microbial fuel cells. Journal of Power Sources, 2012, 219, 358-363.	4.0	26
159	Microbial Fuel Cells for Bioenergy and Bioproducts. Green Energy and Technology, 2012, , 131-171.	0.4	15
160	Application of glow discharge plasma for wastewater treatment. Electrochimica Acta, 2012, 83, 501-512.	2.6	142
161	An improved multi-anode contact glow discharge electrolysis reactor for dye discoloration. Electrochimica Acta, 2012, 59, 474-478.	2.6	33
162	Anode modification by electrochemical oxidation: A new practical method to improve the performance of microbial fuel cells. Biochemical Engineering Journal, 2012, 60, 151-155.	1.8	119

#	ARTICLE	IF	CITATIONS
163	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
164	A combined photocatalytic determination system for chemical oxygen demand with a highly oxidative reagent. <i>Analytica Chimica Acta</i> , 2011, 686, 133-143.	2.6	16
165	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
166	An overview of electrode materials in microbial fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 4427-4435.	4.0	688
167	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
168	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
169	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
170	Amperometric Determination of Chemical Oxygen Demand via the Functional Combination of Three Digestion Types. <i>Electroanalysis</i> , 2010, 22, 2947-2959.	1.5	5
171	A novel photoelectrocatalytic system for organic contaminant degradation on a TiO ₂ nanotube (TNT)/Ti electrode. <i>Electrochimica Acta</i> , 2010, 55, 5091-5099.	2.6	23
172	Combined potential of three catalysis types on TiO ₂ nanotube (TNT)/Ti and nanoparticle (TNP)/Ti photoelectrodes: A comparative study. <i>Applied Catalysis A: General</i> , 2010, 385, 114-122.	2.2	16
173	Degradation of trichloroethylene using solvent-responsive polymer coated Fe nanoparticles. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010, 369, 232-239.	2.3	23
174	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
175	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
176	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
177	Efficient photoelectrocatalytic activity of TiO ₂ /Ti anode fabricated by metalorganic chemical vapor deposition (MOCVD). <i>Electrochemistry Communications</i> , 2009, 11, 921-924.	2.3	22
178	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
179	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
180	Preparation of high efficient photoelectrode of Na ⁺ F ⁻ -codoped TiO ₂ nanotubes. <i>Journal of Photochemistry and Photobiology A: Chemistry</i> , 2008, 194, 152-160.	2.0	78

#	ARTICLE	IF	CITATIONS
181	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
182	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
183	Improvement of diagnostic techniques and electrical circuit in azo dye degradation by high voltage electrical discharge. <i>Energy Conversion and Management</i> , 2008, 49, 2254-2263.	4.4	15
184	Kinetic model of 4-CP degradation by Fenton/O ₂ system. <i>Water Research</i> , 2007, 41, 1121-1133.	5.3	59
185	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
186	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
187	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
188	Oxygen as a promoter for efficient degradation of organic pollutants by high-temperature and high-pressure electrochemistry. <i>Chemical Communications</i> , 2007, , 2645.	2.2	9
189	Degradation of 4-chlorophenol in different gas-liquid electrical discharge reactors. <i>Chemical Engineering Journal</i> , 2007, 132, 325-333.	6.6	38
190	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
191	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
192	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
193	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
194	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
195	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
196	A novel advanced oxidation process—wet electro-catalytic oxidation for high concentrated organic wastewater treatment. <i>Science Bulletin</i> , 2007, 52, 1724-1727.	1.7	10
197	Nitrate removal from groundwater by a novel three-dimensional electrode biofilm reactor. <i>Electrochimica Acta</i> , 2007, 52, 6052-6059.	2.6	131
198	Co-deposition of photocatalytic Fe doped TiO ₂ coatings by MOCVD. <i>Catalysis Communications</i> , 2006, 7, 427-431.	1.6	99

#	ARTICLE	IF	CITATIONS
199	An improved UV/Fe ³⁺ process by combination with electrocatalysis for p-nitrophenol degradation. <i>Chemosphere</i> , 2006, 63, 1032-1040.	4.2	29
200	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
201	TiO ₂ photocatalyst deposition by MOCVD on activated carbon. <i>Carbon</i> , 2006, 44, 325-333.	5.4	86
202	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
203	Wet electrolytic oxidation of cationic red X-GR. <i>Journal of Hazardous Materials</i> , 2006, 137, 1870-1874.	6.5	20
204	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
205	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
206	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
207	p-Nitrophenol abatement by the combination of electrocatalysis and activated carbon. <i>Chemical Engineering Journal</i> , 2005, 106, 83-90.	6.6	33
208	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
209	Enhancing the concentration of TiO ₂ photocatalyst on the external surface of activated carbon by MOCVD. <i>Materials Research Bulletin</i> , 2005, 40, 1899-1904.	2.7	28
210	Activated carbon adsorption-advanced electro-oxidative regeneration for the treatment of biorefractory organic pollutants. <i>Science Bulletin</i> , 2005, 50, 490-492.	1.7	3
211	Activated carbon adsorption-advanced electro-oxidative regeneration for the treatment of biorefractory organic pollutants. <i>Science Bulletin</i> , 2005, 50, 489.	1.7	9
212	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
213	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
214	Novel photocatalysis oxidation system UV/Fe ²⁺ /air to degrade 4-CP wastewater. <i>Science Bulletin</i> , 2005, 50, 2118-2120.	4.3	3
215	Long life modified lead dioxide anode for organic wastewater treatment: electrochemical characteristics and degradation mechanism. <i>Environmental Science & Technology</i> , 2005, 39, 363-70.	4.6	7
216	A novel fluidized electrochemical reactor for organic pollutant abatement. <i>Separation and Purification Technology</i> , 2004, 34, 81-88.	3.9	47

#	ARTICLE	IF	CITATIONS
217	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.	0.9	37
218	Synergetic effects of anodic-cathodic electrocatalysis for phenol degradation in the presence of iron(II). Chemosphere, 2002, 48, 1089-1096.	4.2	20
219	Removal of phenolic compounds by electroassisted advanced process for wastewater purification. Korean Journal of Chemical Engineering, 2002, 19, 866-870.	1.2	28
220	Partial Degradation of Phenol by Advanced Electrochemical Oxidation Process. Environmental Science & Technology, 2001, 35, 2698-2703.	4.6	170