

Xin Wang

List of Publications by Year in descending order

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147
papers

12,798
citations

24978

57
h-index

24179

110
g-index

148
all docs

148
docs citations

148
times ranked

11249
citing authors

#	ARTICLE	IF	CITATIONS
1	Imparting functionality to a metal-organic framework material by controlled nanoparticle encapsulation. <i>Nature Chemistry</i> , 2012, 4, 310-316.	6.6	1,857
2	Brewery wastewater treatment using air-cathode microbial fuel cells. <i>Applied Microbiology and Biotechnology</i> , 2008, 78, 873-880.	1.7	545
3	Selective Electrochemical H ₂ O ₂ Production through Two-Electron Oxygen Electrochemistry. <i>Advanced Energy Materials</i> , 2018, 8, 1801909.	10.2	498
4	Use of Carbon Mesh Anodes and the Effect of Different Pretreatment Methods on Power Production in Microbial Fuel Cells. <i>Environmental Science & Technology</i> , 2009, 43, 6870-6874.	4.6	486
5	Treatment of carbon fiber brush anodes for improving power generation in air-cathode microbial fuel cells. <i>Journal of Power Sources</i> , 2010, 195, 1841-1844.	4.0	466
6	A novel structure of scalable air-cathode without Nafion and Pt by rolling activated carbon and PTFE as catalyst layer in microbial fuel cells. <i>Water Research</i> , 2012, 46, 5777-5787.	5.3	383
7	Separator Characteristics for Increasing Performance of Microbial Fuel Cells. <i>Environmental Science & Technology</i> , 2009, 43, 8456-8461.	4.6	291
8	A horizontal plug flow and stackable pilot microbial fuel cell for municipal wastewater treatment. <i>Bioresource Technology</i> , 2014, 156, 132-138.	4.8	237
9	Cu ₂ O nanocubes with mixed oxidation-state facets for (photo)catalytic hydrogenation of carbon dioxide. <i>Nature Catalysis</i> , 2019, 2, 889-898.	16.1	234
10	Bioelectrochemical stimulation of petroleum hydrocarbon degradation in saline soil using U-tube microbial fuel cells. <i>Biotechnology and Bioengineering</i> , 2012, 109, 426-433.	1.7	232
11	The feasibility and challenges of energy self-sufficient wastewater treatment plants. <i>Applied Energy</i> , 2017, 204, 1463-1475.	5.1	228
12	Well-Dispersed Ruthenium in Mesoporous Crystal TiO ₂ as an Advanced Electrocatalyst for Hydrogen Evolution Reaction. <i>Journal of the American Chemical Society</i> , 2018, 140, 5719-5727.	6.6	224
13	Accelerated start-up of two-chambered microbial fuel cells: Effect of anodic positive poised potential. <i>Electrochimica Acta</i> , 2009, 54, 1109-1114.	2.6	219
14	Sequestration of CO ₂ discharged from anode by algal cathode in microbial carbon capture cells (MCCs). <i>Biosensors and Bioelectronics</i> , 2010, 25, 2639-2643.	5.3	214
15	Catalysis Kinetics and Porous Analysis of Rolling Activated Carbon-PTFE Air-Cathode in Microbial Fuel Cells. <i>Environmental Science & Technology</i> , 2012, 46, 13009-13015.	4.6	204
16	Ethylene Selectivity in Electrocatalytic CO ₂ Reduction on Cu Nanomaterials: A Crystal Phase-Dependent Study. <i>Journal of the American Chemical Society</i> , 2020, 142, 12760-12766.	6.6	183
17	Electricity production from beer brewery wastewater using single chamber microbial fuel cell. <i>Water Science and Technology</i> , 2008, 57, 1117-1121.	1.2	177
18	Simultaneous water desalination and electricity generation in a microbial desalination cell with electrolyte recirculation for pH control. <i>Bioresource Technology</i> , 2012, 106, 89-94.	4.8	159

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19	Bioaugmentation for Electricity Generation from Corn Stover Biomass Using Microbial Fuel Cells. <i>Environmental Science & Technology</i> , 2009, 43, 6088-6093.	4.6	149
20	Enhanced performance and capacitance behavior of anode by rolling Fe ₃ O ₄ into activated carbon in microbial fuel cells. <i>Bioresource Technology</i> , 2012, 121, 450-453.	4.8	146
21	Polyaniline networks grown on graphene nanoribbons-coated carbon paper with a synergistic effect for high-performance microbial fuel cells. <i>Journal of Materials Chemistry A</i> , 2013, 1, 12587.	5.2	138
22	Highly efficient electro-generation of H ₂ O ₂ by adjusting liquid-gas-solid three phase interfaces of porous carbonaceous cathode during oxygen reduction reaction. <i>Water Research</i> , 2019, 164, 114933.	5.3	113
23	Electric field induced salt precipitation into activated carbon air-cathode causes power decay in microbial fuel cells. <i>Water Research</i> , 2017, 123, 369-377.	5.3	106
24	Treatment of biodiesel production wastes with simultaneous electricity generation using a single-chamber microbial fuel cell. <i>Bioresource Technology</i> , 2011, 102, 411-415.	4.8	103
25	Concentration responses of toxicity sensor with <i>Shewanella oneidensis</i> MR-1 growing in bioelectrochemical systems. <i>Biosensors and Bioelectronics</i> , 2013, 43, 264-267.	5.3	102
26	A novel carbon black graphite hybrid air-cathode for efficient hydrogen peroxide production in bioelectrochemical systems. <i>Journal of Power Sources</i> , 2016, 306, 495-502.	4.0	102
27	Carbon fiber enhanced bioelectricity generation in soil microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2016, 85, 135-141.	5.3	101
28	Sand amendment enhances bioelectrochemical remediation of petroleum hydrocarbon contaminated soil. <i>Chemosphere</i> , 2015, 141, 62-70.	4.2	99
29	Continuous electricity generation by a graphite granule baffled air-cathode microbial fuel cell. <i>Bioresource Technology</i> , 2010, 101, 632-638.	4.8	98
30	Photocatalytically improved azo dye reduction in a microbial fuel cell with rutile-cathode. <i>Bioresource Technology</i> , 2010, 101, 3500-3505.	4.8	95
31	Effect of nitrogen addition on the performance of microbial fuel cell anodes. <i>Bioresource Technology</i> , 2011, 102, 395-398.	4.8	93
32	Polydopamine as a new modification material to accelerate startup and promote anode performance in microbial fuel cells. <i>Journal of Power Sources</i> , 2017, 343, 477-482.	4.0	93
33	Superhydrophobic Air-Breathing Cathode for Efficient Hydrogen Peroxide Generation through Two-Electron Pathway Oxygen Reduction Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 35410-35419.	4.0	92
34	Acidic and alkaline pretreatments of activated carbon and their effects on the performance of air-cathodes in microbial fuel cells. <i>Bioresource Technology</i> , 2013, 144, 632-636.	4.8	91
35	Enhanced performance of activated carbon-polytetrafluoroethylene air-cathode by avoidance of sintering on catalyst layer in microbial fuel cells. <i>Journal of Power Sources</i> , 2013, 232, 132-138.	4.0	87
36	Nanostructured Graphene/TiO ₂ Hybrids as High-Performance Anodes for Microbial Fuel Cells. <i>Chemistry - A European Journal</i> , 2014, 20, 7091-7097.	1.7	87

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37	Enhanced biodegradation of aged petroleum hydrocarbons in soils by glucose addition in microbial fuel cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2016, 91, 267-275.	1.6	86
38	Lack of anodic capacitance causes power overshoot in microbial fuel cells. <i>Bioresource Technology</i> , 2013, 138, 353-358.	4.8	83
39	Application of nitrogen-doped carbon powders as low-cost and durable cathodic catalyst to air-cathode microbial fuel cells. <i>Bioresource Technology</i> , 2012, 108, 89-93.	4.8	81
40	Surfactants selectively reallocated the bacterial distribution in soil bioelectrochemical remediation of petroleum hydrocarbons. <i>Journal of Hazardous Materials</i> , 2018, 344, 23-32.	6.5	80
41	Use of a Coculture To Enable Current Production by <i>Geobacter sulfurreducens</i> . <i>Applied and Environmental Microbiology</i> , 2012, 78, 3484-3487.	1.4	78
42	Extended petroleum hydrocarbon bioremediation in saline soil using Pt-free multianodes microbial fuel cells. <i>RSC Advances</i> , 2014, 4, 59803-59808.	1.7	76
43	Simultaneous wastewater treatment and energy harvesting in microbial fuel cells: an update on the biocatalysts. <i>RSC Advances</i> , 2020, 10, 25874-25887.	1.7	75
44	Enhanced anode performance of microbial fuel cells by adding nanosemiconductor goethite. <i>Journal of Power Sources</i> , 2013, 223, 94-99.	4.0	73
45	Opening size optimization of metal matrix in rolling-pressed activated carbon air-cathode for microbial fuel cells. <i>Applied Energy</i> , 2014, 123, 13-18.	5.1	72
46	Bioelectrochemical Ammoniation Coupled with Microbial Electrolysis for Nitrogen Recovery from Nitrate in Wastewater. <i>Environmental Science & Technology</i> , 2020, 54, 3002-3011.	4.6	71
47	Active H ₂ Harvesting Prevents Methanogenesis in Microbial Electrolysis Cells. <i>Environmental Science and Technology Letters</i> , 2016, 3, 286-290.	3.9	70
48	Acetate limitation selects <i>Geobacter</i> from mixed inoculum and reduces polysaccharide in electroactive biofilm. <i>Water Research</i> , 2020, 177, 115776.	5.3	70
49	Microbial Fuel Cells for Organic-contaminated Soil Remedial Applications: A Review. <i>Energy Technology</i> , 2017, 5, 1156-1164.	1.8	69
50	Horizontal arrangement of anodes of microbial fuel cells enhances remediation of petroleum hydrocarbon-contaminated soil. <i>Environmental Science and Pollution Research</i> , 2015, 22, 2335-2341.	2.7	68
51	Nickle-cobalt composite catalyst-modified activated carbon anode for direct glucose alkaline fuel cell. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 1805-1815.	3.8	68
52	Membrane fouling mitigation by coupling applied electric field in membrane system: Configuration, mechanism and performance. <i>Electrochimica Acta</i> , 2018, 287, 124-134.	2.6	68
53	A novel electro-coagulation-Fenton for energy efficient cyanobacteria and cyanotoxins removal without chemical addition. <i>Journal of Hazardous Materials</i> , 2019, 365, 650-658.	6.5	65
54	<i>Geobacter</i> Autogenically Secretes Fulvic Acid to Facilitate the Dissimilated Iron Reduction and Vivianite Recovery. <i>Environmental Science & Technology</i> , 2020, 54, 10850-10858.	4.6	65

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55	Phosphorus Competition in Bioinduced Vivianite Recovery from Wastewater. <i>Environmental Science & Technology</i> , 2018, 52, 13863-13870.	4.6	64
56	Subminimal inhibitory concentration (sub-MIC) of antibiotic induces electroactive biofilm formation in bioelectrochemical systems. <i>Water Research</i> , 2017, 125, 280-287.	5.3	63
57	Salinity and Conductivity Amendment of Soil Enhanced the Bioelectrochemical Degradation of Petroleum Hydrocarbons. <i>Scientific Reports</i> , 2016, 6, 32861.	1.6	61
58	Accelerated OH [•] Transport in Activated Carbon Air Cathode by Modification of Quaternary Ammonium for Microbial Fuel Cells. <i>Environmental Science & Technology</i> , 2014, 48, 4191-4198.	4.6	60
59	Degradation of raw corn stover powder (RCSP) by an enriched microbial consortium and its community structure. <i>Bioresource Technology</i> , 2011, 102, 742-747.	4.8	59
60	Facile electrochemical approach for the production of graphite oxide with tunable chemistry. <i>Carbon</i> , 2017, 112, 185-191.	5.4	59
61	Microbial fuel cells using natural pyrrhotite as the cathodic heterogeneous Fenton catalyst towards the degradation of biorefractory organics in landfill leachate. <i>Electrochemistry Communications</i> , 2010, 12, 944-947.	2.3	58
62	Time behavior and capacitance analysis of nano-Fe ₃ O ₄ added microbial fuel cells. <i>Bioresource Technology</i> , 2013, 144, 689-692.	4.8	56
63	Resin-enhanced rolling activated carbon electrode for efficient capacitive deionization. <i>Desalination</i> , 2017, 419, 20-28.	4.0	56
64	Revealing Decay Mechanisms of H ₂ O ₂ -Based Electrochemical Advanced Oxidation Processes after Long-Term Operation for Phenol Degradation. <i>Environmental Science & Technology</i> , 2020, 54, 10916-10925.	4.6	56
65	Electron Flow Shifts from Anode Respiration to Nitrate Reduction During Electroactive Biofilm Thickening. <i>Environmental Science & Technology</i> , 2020, 54, 9593-9600.	4.6	55
66	Carbon-supported perovskite oxides as oxygen reduction reaction catalyst in single chambered microbial fuel cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 774-778.	1.6	53
67	Alternating Current Influences Anaerobic Electroactive Biofilm Activity. <i>Environmental Science & Technology</i> , 2016, 50, 9169-9176.	4.6	52
68	Isolation and Characterization of an Agaro-Oligosaccharide (AO)-Hydrolyzing Bacterium from the Gut Microflora of Chinese Individuals. <i>PLoS ONE</i> , 2014, 9, e91106.	1.1	52
69	Bifunctional quaternary ammonium compounds to inhibit biofilm growth and enhance performance for activated carbon air-cathode in microbial fuel cells. <i>Journal of Power Sources</i> , 2014, 272, 895-899.	4.0	51
70	Real-Time Imaging Revealed That Exoelectrogens from Wastewater Are Selected at the Center of a Gradient Electric Field. <i>Environmental Science & Technology</i> , 2018, 52, 8939-8946.	4.6	49
71	Biomonitoring persistent organic pollutants in the atmosphere with mosses: Performance and application. <i>Environment International</i> , 2014, 66, 28-37.	4.8	48
72	Repeated transfer enriches highly active electrotrophic microbial consortia on biocathodes in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2018, 121, 118-124.	5.3	48

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73	Nutrient conversion and recovery from wastewater using electroactive bacteria. <i>Science of the Total Environment</i> , 2020, 706, 135690.	3.9	46
74	Effects of sulfide on microbial fuel cells with platinum and nitrogen-doped carbon powder cathodes. <i>Biosensors and Bioelectronics</i> , 2012, 35, 413-415.	5.3	45
75	Electrode potential regulates phenol degradation pathways in oxygen-diffused microbial electrochemical system. <i>Chemical Engineering Journal</i> , 2020, 381, 122663.	6.6	43
76	Combined phyto-microbial-electrochemical system enhanced the removal of petroleum hydrocarbons from soil: A profundity remediation strategy. <i>Journal of Hazardous Materials</i> , 2021, 420, 126592.	6.5	43
77	Long-Term Succession Shows Interspecies Competition of <i>Geobacter</i> in Exoelectrogenic Biofilms. <i>Environmental Science & Technology</i> , 2021, 55, 14928-14937.	4.6	43
78	Power generation using adjustable Nafion/PTFE mixed binders in air-cathode microbial fuel cells. <i>Biosensors and Bioelectronics</i> , 2010, 26, 946-948.	5.3	42
79	A solar assisted microbial electrolysis cell for hydrogen production driven by a microbial fuel cell. <i>RSC Advances</i> , 2015, 5, 82276-82281.	1.7	42
80	Efficient decolorization of azo dye wastewater with polyaniline/graphene modified anode in microbial electrochemical systems. <i>Journal of Hazardous Materials</i> , 2022, 421, 126740.	6.5	42
81	The effect of water proofing on the performance of nickel foam cathode in microbial fuel cells. <i>Journal of Power Sources</i> , 2012, 198, 100-104.	4.0	40
82	The use of double-sided cloth without diffusion layers as air-cathode in microbial fuel cells. <i>Journal of Power Sources</i> , 2011, 196, 8409-8412.	4.0	39
83	The electrochemical behavior of three air cathodes for microbial electrochemical system (MES) under meter scale water pressure. <i>Journal of Power Sources</i> , 2014, 267, 219-226.	4.0	39
84	Protection of Electroactive Biofilm from Extreme Acid Shock by Polydopamine Encapsulation. <i>Environmental Science and Technology Letters</i> , 2017, 4, 345-349.	3.9	39
85	Two key <i>Geobacter</i> species of wastewater-enriched electroactive biofilm respond differently to electric field. <i>Water Research</i> , 2022, 213, 118185.	5.3	39
86	Bioelectrochemical Sensor Using Living Biofilm To in Situ Evaluate Flocculant Toxicity. <i>ACS Sensors</i> , 2016, 1, 1374-1379.	4.0	38
87	Gravity settling of planktonic bacteria to anodes enhances current production of microbial fuel cells. <i>Applied Energy</i> , 2017, 198, 261-266.	5.1	38
88	Restructured fungal community diversity and biological interactions promote metolachlor biodegradation in soil microbial fuel cells. <i>Chemosphere</i> , 2019, 221, 735-749.	4.2	38
89	Regeneration of activated carbon air-cathodes by half-wave rectified alternating fields in microbial fuel cells. <i>Applied Energy</i> , 2018, 219, 199-206.	5.1	37
90	Syntrophic Growth of <i>Geobacter sulfurreducens</i> Accelerates Anaerobic Denitrification. <i>Frontiers in Microbiology</i> , 2018, 9, 1572.	1.5	37

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91	Optimal set of electrode potential enhances the toxicity response of biocathode to formaldehyde. <i>Science of the Total Environment</i> , 2018, 644, 1485-1492.	3.9	37
92	In-situ hydrogen peroxide synthesis with environmental applications in bioelectrochemical systems: A state-of-the-art review. <i>International Journal of Hydrogen Energy</i> , 2021, 46, 3204-3219.	3.8	36
93	An electroactive biofilm-based biosensor for water safety: Pollutants detection and early-warning. <i>Biosensors and Bioelectronics</i> , 2021, 173, 112822.	5.3	36
94	Swift Acid Rain Sensing by Synergistic Rhizospheric Bioelectrochemical Responses. <i>ACS Sensors</i> , 2018, 3, 1424-1430.	4.0	34
95	Quaternary Ammonium Compound in Anolyte without Functionalization Accelerates the Startup of Bioelectrochemical Systems using Real Wastewater. <i>Electrochimica Acta</i> , 2016, 188, 801-808.	2.6	33
96	Peony petal-like 3D graphene-nickel oxide nanocomposite decorated nickel foam as high-performance electrocatalyst for direct glucose alkaline fuel cell. <i>International Journal of Hydrogen Energy</i> , 2017, 42, 29863-29873.	3.8	33
97	Biosynthetic FeS/BC hybrid particles enhanced the electroactive bacteria enrichment in microbial electrochemical systems. <i>Science of the Total Environment</i> , 2021, 762, 143142.	3.9	32
98	Graphite accelerate dissimilatory iron reduction and vivianite crystal enlargement. <i>Water Research</i> , 2021, 189, 116663.	5.3	32
99	A promising destiny for Feammox: From biogeochemical ammonium oxidation to wastewater treatment. <i>Science of the Total Environment</i> , 2021, 790, 148038.	3.9	32
100	The micro-niche of exoelectrogens influences bioelectricity generation in bioelectrochemical systems. <i>Renewable and Sustainable Energy Reviews</i> , 2020, 134, 110184.	8.2	31
101	Accelerated removal of high concentration p-chloronitrobenzene using bioelectrocatalysis process and its microbial communities analysis. <i>Bioresource Technology</i> , 2018, 249, 844-850.	4.8	30
102	Anode respiration-dependent biological nitrogen fixation by <i>Geobacter sulfurreducens</i> . <i>Water Research</i> , 2022, 208, 117860.	5.3	30
103	A novel and high performance activated carbon air-cathode with decreased volume density and catalyst layer invasion for microbial fuel cells. <i>RSC Advances</i> , 2014, 4, 42577-42580.	1.7	29
104	Electrosynthesis of H ₂ O ₂ through a two-electron oxygen reduction reaction by carbon based catalysts: From mechanism, catalyst design to electrode fabrication. <i>Environmental Science and Ecotechnology</i> , 2022, 11, 100170.	6.7	29
105	Tiny crystalline grain nanocrystal NiCo ₂ O ₄ /N-doped graphene composite for efficient oxygen reduction reaction. <i>Journal of Power Sources</i> , 2017, 345, 41-49.	4.0	25
106	Biosynthesis of vivianite from microbial extracellular electron transfer and environmental application. <i>Science of the Total Environment</i> , 2021, 762, 143076.	3.9	25
107	Light exposure interferes with electroactive biofilm enrichment and reduces extracellular electron transfer efficiency. <i>Water Research</i> , 2021, 188, 116512.	5.3	25
108	Enhanced nonradical catalytic oxidation by encapsulating cobalt into nitrogen doped graphene: highlight on interfacial interactions. <i>Journal of Materials Chemistry A</i> , 2021, 9, 7198-7207.	5.2	25

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109	In Situ Representation of Soil/Sediment Conductivity Using Electrochemical Impedance Spectroscopy. <i>Sensors</i> , 2016, 16, 625.	2.1	23
110	Unignorable toxicity of formaldehyde on electroactive bacteria in bioelectrochemical systems. <i>Environmental Research</i> , 2020, 183, 109143.	3.7	23
111	Energy harvesting influences electrochemical performance of microbial fuel cells. <i>Journal of Power Sources</i> , 2017, 356, 356-364.	4.0	22
112	Insight of bacteria and archaea in Feammox community enriched from different soils. <i>Environmental Research</i> , 2022, 203, 111802.	3.7	22
113	Improvement of sludge characteristics and mitigation of membrane fouling in the treatment of pesticide wastewater by electrochemical anaerobic membrane bioreactor. <i>Water Research</i> , 2022, 213, 118153.	5.3	22
114	Electricity generation using eight amino acids by air-cathode microbial fuel cells. <i>Fuel</i> , 2012, 102, 478-482.	3.4	21
115	Bioelectrochemical system for dehalogenation: A review. <i>Environmental Pollution</i> , 2022, 293, 118519.	3.7	21
116	Enhanced oxygen reducing biocathode electroactivity by using sediment extract as inoculum. <i>Bioelectrochemistry</i> , 2017, 117, 9-14.	2.4	20
117	Acetate stimulates tetracycline biodegradation pathways in bioelectrochemical system. <i>Separation and Purification Technology</i> , 2022, 286, 120481.	3.9	20
118	Spatially heterogeneous propionate conversion towards electricity in bioelectrochemical systems. <i>Journal of Power Sources</i> , 2020, 449, 227557.	4.0	18
119	Integrated energy view of wastewater treatment: A potential of electrochemical biodegradation. <i>Frontiers of Environmental Science and Engineering</i> , 2022, 16, 1.	3.3	17
120	Machine Learning Enables Quantification of Multiple Toxicants with Microbial Electrochemical Sensors. <i>ACS ES&T Engineering</i> , 2022, 2, 92-100.	3.7	17
121	Ecological responses to substrates in electroactive biofilm: A review. <i>Science China Technological Sciences</i> , 2019, 62, 1657-1669.	2.0	16
122	Bioelectrochemical partial-denitrification coupled with anammox for autotrophic nitrogen removal. <i>Chemical Engineering Journal</i> , 2022, 434, 134667.	6.6	16
123	Performance of a batch two-chambered microbial fuel cell operated at different anode potentials. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 590-594.	1.6	15
124	Effects of roxithromycin on ammonia-oxidizing bacteria and nitrite-oxidizing bacteria in the rhizosphere of wheat. <i>Applied Microbiology and Biotechnology</i> , 2014, 98, 263-272.	1.7	15
125	Graphene family for hydrogen peroxide production in electrochemical system. <i>Science of the Total Environment</i> , 2021, 769, 144491.	3.9	14
126	A highly sensitive bioelectrochemical toxicity sensor and its evaluation using immediate current attenuation. <i>Science of the Total Environment</i> , 2021, 766, 142646.	3.9	12

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127	Efficient regeneration of activated carbon electrode by half-wave rectified alternating fields in capacitive deionization system. <i>Electrochimica Acta</i> , 2019, 298, 372-378.	2.6	11
128	The UV/H ₂ O ₂ process based on H ₂ O ₂ in-situ generation for water disinfection. <i>Journal of Hazardous Materials Letters</i> , 2021, 2, 100020.	2.0	11
129	Amplifying anti-flooding electrode to fabricate modular electro-fenton system for degradation of antiviral drug lamivudine in wastewater. <i>Journal of Hazardous Materials</i> , 2022, 428, 128185.	6.5	11
130	Thermal reduced graphene oxide enhanced in-situ H ₂ O ₂ generation and electrochemical advanced oxidation performance of air-breathing cathode. <i>Environmental Research</i> , 2022, 204, 112327.	3.7	9
131	Construction of conductive network using magnetite to enhance microflora interaction and petroleum hydrocarbons removal in plant-rhizosphere microbial electrochemical system. <i>Chemical Engineering Journal</i> , 2022, 433, 133600.	6.6	9
132	The use of natural hierarchical porous carbon from <i>Artemia</i> cyst shells alleviates power decay in activated carbon air-cathode. <i>Electrochimica Acta</i> , 2019, 315, 41-47.	2.6	8
133	Remediation of PNP-contaminated groundwater using a modified CaO ₂ /Fe(II) Fenton system: Reactive principles, degradation performance and potential pathways. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107305.	3.3	8
134	Promotion of anodic electron transfer in a microbial fuel cell combined with a silicon solar cell. <i>Journal of Power Sources</i> , 2014, 253, 177-180.	4.0	7
135	Excessive extracellular polymeric substances induced by organic shocks accelerate electron transfer of oxygen reducing biocathode. <i>Science of the Total Environment</i> , 2021, 774, 145767.	3.9	7
136	Biosynthesis and recycling of magnetite nanocatalysts from Fe-rich sludge. <i>Resources, Conservation and Recycling</i> , 2022, 182, 106348.	5.3	7
137	A modelling study of the spatially heterogeneous mutualism between electroactive biofilm and planktonic bacteria. <i>Science of the Total Environment</i> , 2021, 759, 143537.	3.9	6
138	High current density with spatial distribution of <i>Geobacter</i> in anodic biofilm of the microbial electrolysis desalination and chemical-production cell with enlarged volumetric anode. <i>Science of the Total Environment</i> , 2022, 831, 154798.	3.9	6
139	Poised potential is not an effective strategy to enhance bio-electrochemical denitrification under cyclic substrate limitations. <i>Science of the Total Environment</i> , 2020, 713, 136698.	3.9	5
140	Responses of electroactive biofilms to chronic chlorine exposure: Insights from the composition and spatial structure of extracellular polymeric substances. <i>Bioelectrochemistry</i> , 2021, 142, 107894.	2.4	5
141	Synthesis of silver nanoparticles using living electroactive biofilm protected by polydopamine. <i>IScience</i> , 2021, 24, 102933.	1.9	4
142	Electricity Generation in Microbial Fuel Cells at Different Temperature and Isolation of Electrogenic Bacteria. , 2009, , .		3
143	Polystyrene Microspheres Coupled with Hybridization Chain Reaction for Dual-Amplified Chemiluminescence Detection of Specific DNA Sequences. <i>Journal of Analysis and Testing</i> , 2017, 1, 306-314.	2.5	3
144	Dibutyl phthalate weakens the role of electroactive biofilm as an efficient wastewater handler and related mechanism. <i>Science of the Total Environment</i> , 2022, 807, 151612.	3.9	3

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145	Synthesis of ppyâ€MgOâ€CNT nanocomposites for multifunctional applications. RSC Advances, 2021, 11, 36379-36390.	1.7	3
146	Air-Cathodes. , 2019, , 99-115.		1
147	Response of Methanogen Communities to the Elevation of Cathode Potentials in Bioelectrochemical Reactors Amended with Magnetite. Applied and Environmental Microbiology, 2021, 87, e0148821.	1.4	1