

# Zhiyong Jason Ren

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1247591/publications.pdf>

Version: 2024-02-01

181  
papers

12,251  
citations

20817

60  
h-index

29157

104  
g-index

183  
all docs

183  
docs citations

183  
times ranked

9830  
citing authors

#	ARTICLE	IF	CITATIONS
1	Microbial Electrosynthesis for Producing Medium Chain Fatty Acids. <i>Engineering</i> , 2022, 16, 141-153.	6.7	23
2	Electro-fermentation enhances H <sub>2</sub> and ethanol co-production by regulating electron transfer and substrate transmembrane transport. <i>Chemical Engineering Journal</i> , 2022, 429, 132223.	12.7	14
3	Cathode Material Development in the Past Decade for H <sub>2</sub> Production from Microbial Electrolysis Cells. <i>ACS Environmental Au</i> , 2022, 2, 20-29.	7.0	15
4	Upscaling 3D Engineered Trees for Off-Grid Desalination. <i>Environmental Science &amp; Technology</i> , 2022, 56, 1289-1299.	10.0	26
5	Toward a net zero circular water economy. , 2022, , 1-13.		0
6	Cell-Free CO <sub>2</sub> Valorization to C <sub>6</sub> Pharmaceutical Precursors via a Novel Electro-Enzymatic Process. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 4114-4121.	6.7	15
7	Thermoresponsive Polymers for Water Treatment and Collection. <i>Macromolecules</i> , 2022, 55, 1894-1909.	4.8	27
8	Carbon valorization using the microbial electrochemical technology platform. , 2022, , 83-98.		0
9	High-entropy nanoparticles: Synthesis-structure-property relationships and data-driven discovery. <i>Science</i> , 2022, 376, eabn3103.	12.6	239
10	Engineered wood for a sustainable future. <i>Matter</i> , 2022, 5, 1326-1329.	10.0	14
11	The interplay of active energy harvesting and wastewater organic loading regulates fermentation products and microbiomes in microbial fuel cells. <i>Resources, Conservation and Recycling</i> , 2022, 183, 106366.	10.8	4
12	Syngas mediated microbial electrosynthesis for CO <sub>2</sub> to acetate conversion using <i>Clostridium ljungdahlii</i> . <i>Resources, Conservation and Recycling</i> , 2022, 184, 106395.	10.8	14
13	Adaptive soft sensing of river flow prediction for wastewater treatment operation and risk management. <i>Water Research</i> , 2022, 220, 118714.	11.3	7
14	Data Science for Advancing Environmental Science, Engineering, and Technology: Upcoming Special and Virtual Issues in <i>ES&amp;T</i> and <i>ES&amp;T Letters</i> . <i>Environmental Science and Technology Letters</i> , 2022, 9, 581-582.	8.7	2
15	Data Science for Advancing Environmental Science, Engineering, and Technology: Upcoming Special and Virtual Issues in <i>ES&amp;T</i> and <i>ES&amp;T Letters</i> . <i>Environmental Science &amp; Technology</i> , 2022, 56, 9827-9828.	10.0	4
16	Deep Learning Optimization for Soft Sensing of Hard-to-Measure Wastewater Key Variables. <i>ACS ES&amp;T Engineering</i> , 2022, 2, 1341-1355.	7.6	12
17	Energy-efficient microbial electrochemical lignin and alkaline hydroxide recovery from DMR black liquor. <i>Resources, Conservation and Recycling</i> , 2022, 186, 106529.	10.8	5
18	Advanced Nanowood Materials for the Water-Energy Nexus. <i>Advanced Materials</i> , 2021, 33, e2001240.	21.0	59

#	ARTICLE	IF	CITATIONS
19	Electrochemical biofilm control by reconstructing microbial community in agricultural water distribution systems. <i>Journal of Hazardous Materials</i> , 2021, 403, 123616.	12.4	20
20	Will Membranes Break Barriers on Volatile Fatty Acid Recovery from Anaerobic Digestion?. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 141-153.	7.6	39
21	Electricity from anaerobic methane oxidation by a single methanogenic archaeon <i>Methanosarcina barkeri</i> . <i>Chemical Engineering Journal</i> , 2021, 405, 126691.	12.7	30
22	Preventing masks from becoming the next plastic problem. <i>Frontiers of Environmental Science and Engineering</i> , 2021, 15, 125.	6.0	84
23	Electricity Enhances Biological Fe(III) Reduction and Phosphorus Recovery from FeP Complex: Proof of Concept and Kinetic Analysis. <i>ACS ES&amp;T Engineering</i> , 2021, 1, 523-532.	7.6	10
24	ES&T in the 21st Century: A Data-Driven Analysis of Research Topics, Interconnections, And Trends in the Past 20 Years. <i>Environmental Science &amp; Technology</i> , 2021, 55, 3453-3464.	10.0	57
25	Electrocatalytic Membranes for Tunable Syngas Production and High-Efficiency Delivery to Biocompatible Electrolytes. <i>ACS Sustainable Chemistry and Engineering</i> , 2021, 9, 6012-6022.	6.7	6
26	Greenhouse gas emissions associated with urban water infrastructure: What we have learnt from China's practice. <i>Wiley Interdisciplinary Reviews: Water</i> , 2021, 8, e1529.	6.5	28
27	Metal-insulator-semiconductor (MIS) photoelectrodes: distance improves performance. <i>National Science Review</i> , 2021, 8, nwab089.	9.5	1
28	U.S.'s China Collaboration is Vital to Global Plans for a Healthy Environment and Sustainable Development. <i>Environmental Science &amp; Technology</i> , 2021, 55, 9622-9626.	10.0	10
29	Circular utilization of food waste to biochar enhances thermophilic co-digestion performance. <i>Bioresource Technology</i> , 2021, 332, 125130.	9.6	13
30	Long-term in situ bioelectrochemical monitoring of biohythane process: Metabolic interactions and microbial evolution. <i>Bioresource Technology</i> , 2021, 332, 125119.	9.6	26
31	Machine Learning: New Ideas and Tools in Environmental Science and Engineering. <i>Environmental Science &amp; Technology</i> , 2021, 55, 12741-12754.	10.0	140
32	Photochemical Behavior of Microbial Extracellular Polymeric Substances in the Aquatic Environment. <i>Environmental Science &amp; Technology</i> , 2021, 55, 15090-15099.	10.0	44
33	Anode co-valorization for scalable and sustainable electrolysis. <i>Green Chemistry</i> , 2021, 23, 7917-7936.	9.0	16
34	Sustainable off-grid desalination of hypersaline waters using Janus wood evaporators. <i>Energy and Environmental Science</i> , 2021, 14, 5347-5357.	30.8	133
35	Microbial vanadate and nitrate reductions coupled with anaerobic methane oxidation in groundwater. <i>Journal of Hazardous Materials</i> , 2020, 382, 121228.	12.4	63
36	Electrical decoupling of microbial electrochemical reactions enables spontaneous H <sub>2</sub> evolution. <i>Energy and Environmental Science</i> , 2020, 13, 495-502.	30.8	20

#	ARTICLE	IF	CITATIONS
37	Covalent organic framework-supported platinum nanoparticles as efficient electrocatalysts for water reduction. <i>Nanoscale</i> , 2020, 12, 2596-2602.	5.6	41
38	Spontaneous Solar Syngas Production from CO <sub>2</sub> Driven by Energetically Favorable Wastewater Microbial Anodes. <i>Joule</i> , 2020, 4, 2149-2161.	24.0	27
39	High rate CO <sub>2</sub> valorization to organics via CO mediated silica nanoparticle enhanced fermentation. <i>Applied Energy</i> , 2020, 279, 115725.	10.1	7
40	Moisture retention extended enhanced bioelectrochemical remediation of unsaturated soil. <i>Science of the Total Environment</i> , 2020, 724, 138169.	8.0	16
41	Efficient ammonia recovery from wastewater using electrically conducting gas stripping membranes. <i>Environmental Science: Nano</i> , 2020, 7, 1759-1771.	4.3	29
42	A salt-rejecting anisotropic structure for efficient solar desalination via heat-mass flux decoupling. <i>Journal of Materials Chemistry A</i> , 2020, 8, 12089-12096.	10.3	27
43	Monitoring in situ microbial activities in wet or clayey soils by a novel microbial-electrochemical technology. <i>Environmental Technology and Innovation</i> , 2020, 18, 100695.	6.1	5
44	Selective ligand modification of cobalt porphyrins for carbon dioxide electrolysis: Generation of a renewable H <sub>2</sub> /CO feedstock for downstream catalytic hydrogenation. <i>Inorganica Chimica Acta</i> , 2020, 507, 119594.	2.4	7
45	Value Proposition of Untapped Wet Wastes: Carboxylic Acid Production through Anaerobic Digestion. <i>IScience</i> , 2020, 23, 101221.	4.1	51
46	pH Dependence of Phosphorus Speciation and Transport in Flow-Electrode Capacitive Deionization. <i>Environmental Science &amp; Technology</i> , 2020, 54, 9116-9123.	10.0	43
47	Capacitive deionization and electrosorption: from desalination to ion management. <i>Environmental Science: Water Research and Technology</i> , 2020, 6, 241-242.	2.4	4
48	Molecular Transformation of Crude Oil Contaminated Soil after Bioelectrochemical Degradation Revealed by FT-ICR Mass Spectrometry. <i>Environmental Science &amp; Technology</i> , 2020, 54, 2500-2509.	10.0	19
49	Competitive exclusion in a DAE model for microbial electrolysis cells. <i>Mathematical Biosciences and Engineering</i> , 2020, 17, 6217-6239.	1.9	3
50	Geochemical and microbial characterizations of flowback and produced water in three shale oil and gas plays in the central and western United States. <i>Water Research</i> , 2019, 164, 114942.	11.3	64
51	Hydrophobic nanostructured wood membrane for thermally efficient distillation. <i>Science Advances</i> , 2019, 5, eaaw3203.	10.3	81
52	Oily bilge water treatment using DC/AC powered electrocoagulation. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 1654-1660.	2.4	30
53	Dominance of electroactive microbiomes in bioelectrochemical remediation of hydrocarbon-contaminated soils with different textures. <i>Chemosphere</i> , 2019, 235, 776-784.	8.2	42
54	Graphene-integrated polymeric membrane as a flexible, multifunctional electrode. <i>Chemical Engineering Science</i> , 2019, 209, 115221.	3.8	1

#	ARTICLE	IF	CITATIONS
55	Characterization of implementation limits and identification of optimization strategies for sustainable water resource recovery through life cycle impact analysis. <i>Environment International</i> , 2019, 133, 105266.	10.0	12
56	Hydrophobic Gas Transfer Membranes for Wastewater Treatment and Resource Recovery. <i>Environmental Science &amp; Technology</i> , 2019, 53, 11618-11635.	10.0	64
57	Microbial electrochemical treatment of biorefinery black liquor and resource recovery. <i>Green Chemistry</i> , 2019, 21, 1258-1266.	9.0	28
58	Editorial Perspectives: the value proposition of resource recovery. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 196-197.	2.4	3
59	Shipboard bilge water treatment by electrocoagulation powered by microbial fuel cells. <i>Frontiers of Environmental Science and Engineering</i> , 2019, 13, 1.	6.0	21
60	Active harvesting enhances energy recovery and function of electroactive microbiomes in microbial fuel cells. <i>Applied Energy</i> , 2019, 247, 492-502.	10.1	33
61	Sensitivity and Bifurcation Analysis of a Differential-Algebraic Equation Model for a Microbial Electrolysis Cell. <i>SIAM Journal on Applied Dynamical Systems</i> , 2019, 18, 709-728.	1.6	8
62	Concurrent Nitrogen and Phosphorus Recovery Using Flow-Electrode Capacitive Deionization. <i>ACS Sustainable Chemistry and Engineering</i> , 2019, 7, 7844-7850.	6.7	84
63	Production of magnetic biochar from waste-derived fungal biomass for phosphorus removal and recovery. <i>Journal of Cleaner Production</i> , 2019, 224, 100-106.	9.3	75
64	Directing <i>Clostridium ljungdahlii</i> fermentation products via hydrogen to carbon monoxide ratio in syngas. <i>Biomass and Bioenergy</i> , 2019, 124, 95-101.	5.7	49
65	Nature-inspired salt resistant bimodal porous solar evaporator for efficient and stable water desalination. <i>Energy and Environmental Science</i> , 2019, 12, 1558-1567.	30.8	482
66	Unbiased solar H <sub>2</sub> production with current density up to 23 mA cm <sup>-2</sup> by Swiss-cheese black Si coupled with wastewater bioanode. <i>Energy and Environmental Science</i> , 2019, 12, 1088-1099.	30.8	48
67	Comment on "Unbiased solar H <sub>2</sub> production with current density up to 23 mA cm <sup>-2</sup> by Swiss-cheese black Si coupled with wastewater bioanode" by L. Lu, W. Vakki, J. A. Aguiar, C. Xiao, K. Hurst, M. Fairchild, X. Chen, F. Yang, J. Gu and Z. J. Ren, <i>Energy Environ. Sci.</i> , 2019, 12, 1088. <i>Energy and Environmental Science</i> , 2019, 12, 3412-3414.	30.8	6
68	Decarbonylation reaction of saturated and oxidized tar from pyrolysis of low aromaticity biomass boost reduction of hexavalent chromium. <i>Chemical Engineering Journal</i> , 2019, 360, 1042-1050.	12.7	14
69	Carbon dioxide and organic waste valorization by microbial electrosynthesis and electro-fermentation. <i>Water Research</i> , 2019, 149, 42-55.	11.3	191
70	Influences of Temperature and Metal on Subcritical Hydrothermal Liquefaction of Hyperaccumulator: Implications for the Recycling of Hazardous Hyperaccumulators. <i>Environmental Science &amp; Technology</i> , 2018, 52, 2225-2234.	10.0	61
71	Carbon transmission of CO <sub>2</sub> activated nano-MgO carbon composites enhances phosphate immobilization. <i>Journal of Materials Chemistry A</i> , 2018, 6, 3705-3713.	10.3	37
72	Microbial electrolysis treatment of post-hydrothermal liquefaction wastewater with hydrogen generation. <i>Applied Energy</i> , 2018, 212, 509-515.	10.1	71

#	ARTICLE	IF	CITATIONS
73	CO <sub>2</sub> activation promotes available carbonate and phosphorus of antibiotic mycelial fermentation residue-derived biochar support for increased lead immobilization. <i>Chemical Engineering Journal</i> , 2018, 334, 1101-1107.	12.7	49
74	Comparative performances of microbial capacitive deionization cell and microbial fuel cell fed with produced water from the Bakken shale. <i>Bioelectrochemistry</i> , 2018, 121, 56-64.	4.6	45
75	Complex Formation via Hydrogen bonding between Rhodamine B and Montmorillonite in Aqueous Solution. <i>Scientific Reports</i> , 2018, 8, 229.	3.3	38
76	Brønsted Catalyzed Hydrolysis of Microcystin-LR by Siderite. <i>Environmental Science &amp; Technology</i> , 2018, 52, 6426-6437.	10.0	28
77	Energy-neutral sustainable nutrient recovery incorporated with the wastewater purification process in an enlarged microbial nutrient recovery cell. <i>Journal of Power Sources</i> , 2018, 384, 160-164.	7.8	29
78	A novel microbial fuel cell sensor with a gas diffusion biocathode sensing element for water and air quality monitoring. <i>Chemosphere</i> , 2018, 203, 21-25.	8.2	51
79	Capacitive deionization for nutrient recovery from wastewater with disinfection capability. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 33-39.	2.4	43
80	Wastewater treatment for carbon capture and utilization. <i>Nature Sustainability</i> , 2018, 1, 750-758.	23.7	299
81	Production Temperature Effects on the Structure of Hydrochar-Derived Dissolved Organic Matter and Associated Toxicity. <i>Environmental Science &amp; Technology</i> , 2018, 52, 7486-7495.	10.0	86
82	Electrochemical Control of Redox Potential Arrests Methanogenesis and Regulates Products in Mixed Culture Electro-Fermentation. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 8650-8658.	6.7	54
83	Nickel-Based Membrane Electrodes Enable High-Rate Electrochemical Ammonia Recovery. <i>Environmental Science &amp; Technology</i> , 2018, 52, 8930-8938.	10.0	83
84	The global potential for converting renewable electricity to negative-CO <sub>2</sub> -emissions hydrogen. <i>Nature Climate Change</i> , 2018, 8, 621-625.	18.8	74
85	Swift Acid Rain Sensing by Synergistic Rhizospheric Bioelectrochemical Responses. <i>ACS Sensors</i> , 2018, 3, 1424-1430.	7.8	34
86	Anaerobic membrane gas extraction facilitates thermophilic hydrogen production from <i>Clostridium thermocellum</i> . <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1771-1782.	2.4	19
87	Urine-powered synergy of nutrient recovery and urine purification in a microbial electrochemical system. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1427-1438.	2.4	25
88	Autotrophic Vanadium(V) Bioreduction in Groundwater by Elemental Sulfur and Zerovalent Iron. <i>Environmental Science &amp; Technology</i> , 2018, 52, 7434-7442.	10.0	125
89	Microbial electrochemical nutrient recovery in anaerobic osmotic membrane bioreactors. <i>Water Research</i> , 2017, 114, 181-188.	11.3	81
90	Long-term performance of sediment microbial fuel cells with multiple anodes. <i>Bioresource Technology</i> , 2017, 237, 178-185.	9.6	39

#	ARTICLE	IF	CITATIONS
91	Dynamic modeling of a microbial fuel cell considering anodic electron flow and electrical charge storage. <i>Applied Energy</i> , 2017, 193, 507-514.	10.1	18
92	Electrochemical hythane production for renewable energy storage and biogas upgrading. <i>Applied Energy</i> , 2017, 187, 595-600.	10.1	47
93	Resin-enhanced rolling activated carbon electrode for efficient capacitive deionization. <i>Desalination</i> , 2017, 419, 20-28.	8.2	56
94	Microbial fuel cells: Running on gas. <i>Nature Energy</i> , 2017, 2, .	39.5	45
95	Accelerating Innovation that Enhances Resource Recovery in the Wastewater Sector: Advancing a National Testbed Network. <i>Environmental Science &amp; Technology</i> , 2017, 51, 7749-7758.	10.0	50
96	The Establishment and Characteristics of Dominant Syntrophic Propionate Oxidation Bacteria and Sulfate-Reducing Bacteria in a Mixed Culture. <i>Chemical Engineering Communications</i> , 2017, 204, 926-936.	2.6	2
97	The Microbial Electrochemical Current Accelerates Urea Hydrolysis for Recovery of Nutrients from Source-Separated Urine. <i>Environmental Science and Technology Letters</i> , 2017, 4, 305-310.	8.7	50
98	Energy harvesting influences electrochemical performance of microbial fuel cells. <i>Journal of Power Sources</i> , 2017, 356, 356-364.	7.8	22
99	Microbial Photoelectrosynthesis for Self-Sustaining Hydrogen Generation. <i>Environmental Science &amp; Technology</i> , 2017, 51, 13494-13501.	10.0	34
100	Demethanation Trend of Hydrochar Induced by Organic Solvent Washing and Its Influence on Hydrochar Activation. <i>Environmental Science &amp; Technology</i> , 2017, 51, 10756-10764.	10.0	42
101	Self-sustaining advanced wastewater purification and simultaneous in situ nutrient recovery in a novel bioelectrochemical system. <i>Chemical Engineering Journal</i> , 2017, 330, 692-697.	12.7	56
102	A conductive wood membrane anode improves effluent quality of microbial fuel cells. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 940-946.	2.4	19
103	Pulse electromagnetic fields enhance extracellular electron transfer in magnetic bioelectrochemical systems. <i>Biotechnology for Biofuels</i> , 2017, 10, 238.	6.2	32
104	Biochar Based Microbial Fuel Cell for Enhanced Wastewater Treatment and Nutrient Recovery. <i>Sustainability</i> , 2016, 8, 169.	3.2	47
105	Geophysical Monitoring of Hydrocarbon-Contaminated Soils Remediated with a Bioelectrochemical System. <i>Environmental Science &amp; Technology</i> , 2016, 50, 8205-8213.	10.0	46
106	Active H <sub>2</sub> Harvesting Prevents Methanogenesis in Microbial Electrolysis Cells. <i>Environmental Science and Technology Letters</i> , 2016, 3, 286-290.	8.7	70
107	Interplay of Anode, Cathode, and Current in Microbial Fuel Cells: Implications for Wastewater Treatment. <i>Energy Technology</i> , 2016, 4, 583-592.	3.8	12
108	Multiple syntrophic interactions drive biohythane production from waste sludge in microbial electrolysis cells. <i>Biotechnology for Biofuels</i> , 2016, 9, 162.	6.2	88



#	ARTICLE	IF	CITATIONS
109	Microbial electrolysis cells for waste biorefinery: A state of the art review. <i>Bioresource Technology</i> , 2016, 215, 254-264.	9.6	273
110	Granular biochar compared with activated carbon for wastewater treatment and resource recovery. <i>Water Research</i> , 2016, 94, 225-232.	11.3	230
111	Microbial fuel cells and osmotic membrane bioreactors have mutual benefits for wastewater treatment and energy production. <i>Water Research</i> , 2016, 98, 183-189.	11.3	78
112	Nickel based catalysts for highly efficient H <sub>2</sub> evolution from wastewater in microbial electrolysis cells. <i>Electrochimica Acta</i> , 2016, 206, 381-387.	5.2	102
113	Organic content influences sediment microbial fuel cell performance and community structure. <i>Bioresource Technology</i> , 2016, 220, 549-556.	9.6	67
114	Self-sustaining carbon capture and mineralization via electrolytic carbonation of coal fly ash. <i>Chemical Engineering Journal</i> , 2016, 306, 330-335.	12.7	17
115	Alternating Current Influences Anaerobic Electroactive Biofilm Activity. <i>Environmental Science &amp; Technology</i> , 2016, 50, 9169-9176.	10.0	52
116	Controlled Growth of Nanostructured Biotemplates with Cobalt and Nitrogen Codoping as a Binderless Lithium-Ion Battery Anode. <i>ACS Applied Materials &amp; Interfaces</i> , 2016, 8, 26868-26877.	8.0	13
117	Synthesis, characterization and adsorption capacity of magnetic carbon composites activated by CO <sub>2</sub> : implication for the catalytic mechanisms of iron salts. <i>Journal of Materials Chemistry A</i> , 2016, 4, 18942-18951.	10.3	33
118	A liter-scale microbial capacitive deionization system for the treatment of shale gas wastewater. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 353-361.	2.4	15
119	Ambient CO <sub>2</sub> capture and storage in bioelectrochemically mediated wastewater treatment. <i>Bioresource Technology</i> , 2016, 215, 380-385.	9.6	17
120	Iron-rich nanoparticle encapsulated, nitrogen doped porous carbon materials as efficient cathode electrocatalyst for microbial fuel cells. <i>Journal of Power Sources</i> , 2016, 315, 302-307.	7.8	76
121	Low-energy hydraulic fracturing wastewater treatment via AC powered electrocoagulation with biochar. <i>Journal of Hazardous Materials</i> , 2016, 309, 180-184.	12.4	44
122	Recover wastewater resources locally. <i>Nature</i> , 2016, 529, 25-25.	27.8	80
123	Individual and competitive removal of heavy metals using capacitive deionization. <i>Journal of Hazardous Materials</i> , 2016, 302, 323-331.	12.4	162
124	Graphene oxide and H <sub>2</sub> production from bioelectrochemical graphite oxidation. <i>Scientific Reports</i> , 2015, 5, 16242.	3.3	22
125	Membrane configuration influences microbial capacitive desalination performance. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 348-354.	2.4	10
126	Practical Energy Harvesting for Microbial Fuel Cells: A Review. <i>Environmental Science &amp; Technology</i> , 2015, 49, 3267-3277.	10.0	309



#	ARTICLE	IF	CITATIONS
127	Microbial capacitive desalination for integrated organic matter and salt removal and energy production from unconventional natural gas produced water. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 47-55.	2.4	50
128	Pluggable microbial fuel cell stacks for septic wastewater treatment and electricity production. <i>Bioresource Technology</i> , 2015, 180, 258-263.	9.6	86
129	Graphitic biochar as a cathode electrocatalyst support for microbial fuel cells. <i>Bioresource Technology</i> , 2015, 195, 147-153.	9.6	124
130	Microbial community structure accompanied with electricity production in a constructed wetland plant microbial fuel cell. <i>Bioresource Technology</i> , 2015, 195, 115-121.	9.6	228
131	Sand amendment enhances bioelectrochemical remediation of petroleum hydrocarbon contaminated soil. <i>Chemosphere</i> , 2015, 141, 62-70.	8.2	99
132	Microbial Electrolytic Carbon Capture for Carbon Negative and Energy Positive Wastewater Treatment. <i>Environmental Science &amp; Technology</i> , 2015, 49, 8193-8201.	10.0	76
133	Synthesis of a conjugated porous Co( <i>porphyrinylene</i> -ethynylene framework through alkyne metathesis and its catalytic activity study. <i>Journal of Materials Chemistry A</i> , 2015, 3, 4954-4959.	10.3	89
134	Removal and fate of trace organic compounds in microbial fuel cells. <i>Chemosphere</i> , 2015, 125, 94-101.	8.2	38
135	Bioelectrochemical system platform for sustainable environmental remediation and energy generation. <i>Biotechnology Advances</i> , 2015, 33, 317-334.	11.7	253
136	AC power generation from microbial fuel cells. <i>Journal of Power Sources</i> , 2015, 297, 252-259.	7.8	16
137	Metallated porphyrin based porous organic polymers as efficient electrocatalysts. <i>Nanoscale</i> , 2015, 7, 18271-18277.	5.6	52
138	Shale gas produced water treatment using innovative microbial capacitive desalination cell. <i>Journal of Hazardous Materials</i> , 2015, 283, 847-855.	12.4	93
139	Microbial Capacitive Desalination for Integrated Organic and Salt Removal and Energy Production from Shale Gas Wastewater. <i>Proceedings of the Water Environment Federation</i> , 2015, 2015, 4503-4508.	0.0	0
140	Two-stage conversion of crude glycerol to energy using dark fermentation linked with microbial fuel cell or microbial electrolysis cell. <i>New Biotechnology</i> , 2014, 31, 179-184.	4.4	121
141	Biochar as a sustainable electrode material for electricity production in microbial fuel cells. <i>Bioresource Technology</i> , 2014, 157, 114-119.	9.6	279
142	Microbial fuel cell energy harvesting using synchronous flyback converter. <i>Journal of Power Sources</i> , 2014, 247, 636-642.	7.8	48
143	High performance spiral wound microbial fuel cell with hydraulic characterization. <i>Bioresource Technology</i> , 2014, 174, 287-293.	9.6	21
144	Percarbonate as a naturally buffering catholyte for microbial fuel cells. <i>Bioresource Technology</i> , 2014, 172, 429-432.	9.6	21

#	ARTICLE	IF	CITATIONS
145	Lightweight, conductive hollow fibers from nature as sustainable electrode materials for microbial energy harvesting. <i>Nano Energy</i> , 2014, 10, 268-276.	16.0	63
146	Bioelectrochemical metal recovery from wastewater: A review. <i>Water Research</i> , 2014, 66, 219-232.	11.3	371
147	Microbial Metabolism and Community Structure in Response to Bioelectrochemically Enhanced Remediation of Petroleum Hydrocarbon-Contaminated Soil. <i>Environmental Science &amp; Technology</i> , 2014, 48, 4021-4029.	10.0	254
148	Enhanced bioremediation of hydrocarbon-contaminated soil using pilot-scale bioelectrochemical systems. <i>Journal of Hazardous Materials</i> , 2014, 274, 8-15.	12.4	154
149	The Principle and Applications of Bioelectrochemical Systems. , 2013, , 501-527.		3
150	Comparison of coal rank for enhanced biogenic natural gas production. <i>International Journal of Coal Geology</i> , 2013, 115, 92-96.	5.0	76
151	Feasibility of microbial production of new natural gas from non-gas-producing lignite. <i>International Journal of Coal Geology</i> , 2013, 115, 79-84.	5.0	49
152	A comprehensive review of microbial electrochemical systems as a platform technology. <i>Biotechnology Advances</i> , 2013, 31, 1796-1807.	11.7	686
153	Hysteresis-Controller-Based Energy Harvesting Scheme for Microbial Fuel Cells With Parallel Operation Capability. <i>IEEE Transactions on Energy Conversion</i> , 2012, 27, 715-724.	5.2	39
154	Zinc Leaching from Tire Crumb Rubber. <i>Environmental Science &amp; Technology</i> , 2012, 46, 12856-12863.	10.0	108
155	Power electronic converters for microbial fuel cell energy extraction: Effects of inductance, duty ratio, and switching frequency. <i>Journal of Power Sources</i> , 2012, 220, 89-94.	7.8	25
156	Microbial desalination cell with capacitive adsorption for ion migration control. <i>Bioresource Technology</i> , 2012, 120, 332-336.	9.6	86
157	Long-term performance and characterization of microbial desalination cells in treating domestic wastewater. <i>Bioresource Technology</i> , 2012, 120, 187-193.	9.6	103
158	Electrochemical corrosion of carbon steel exposed to biodiesel/simulated seawater mixture. <i>Corrosion Science</i> , 2012, 57, 215-219.	6.6	35
159	Sustainable desalination using a microbial capacitive desalination cell. <i>Energy and Environmental Science</i> , 2012, 5, 7161.	30.8	130
160	Active Energy Harvesting from Microbial Fuel Cells at the Maximum Power Point without Using Resistors. <i>Environmental Science &amp; Technology</i> , 2012, 46, 5247-5252.	10.0	81
161	Microbial desalination cells for improved performance in wastewater treatment, electricity production, and desalination. <i>Bioresource Technology</i> , 2012, 105, 60-66.	9.6	203
162	Hysteresis controller based maximum power point tracking energy harvesting system for microbial fuel cells. <i>Journal of Power Sources</i> , 2012, 205, 151-156.	7.8	68

#	ARTICLE	IF	CITATIONS
163	High efficiency energy harvesting from microbial fuel cells using a synchronous boost converter. Journal of Power Sources, 2012, 208, 322-327.	7.8	71
164	Ionic composition and transport mechanisms in microbial desalination cells. Journal of Membrane Science, 2012, 409-410, 16-23.	8.2	88
165	Characterization of Microbial Fuel Cells at Microbially and Electrochemically Meaningful Time scales. Environmental Science & Technology, 2011, 45, 2435-2441.	10.0	111
166	Concurrent Desalination and Hydrogen Generation Using Microbial Electrolysis and Desalination Cells. Environmental Science & Technology, 2011, 45, 340-344.	10.0	201
167	Heterogeneous corrosion behaviour of carbon steel in water contaminated biodiesel. Corrosion Science, 2011, 53, 845-849.	6.6	53
168	Researchers discover a way to simultaneously desalinate water, produce hydrogen and treat wastewater. Membrane Technology, 2011, 2011, 8.	0.1	0
169	Time-course correlation of biofilm properties and electrochemical performance in single-chamber microbial fuel cells. Bioresource Technology, 2011, 102, 416-421.	9.6	61
170	Recycled tire crumb rubber anodes for sustainable power production in microbial fuel cells. Journal of Power Sources, 2011, 196, 5863-5866.	7.8	43
171	Carbon nanotube modified air-cathodes for electricity production in microbial fuel cells. Journal of Power Sources, 2011, 196, 7465-7469.	7.8	102
172	Efficient energy harvester for microbial fuel cells using DC/DC converters. , 2011, , .		9
173	Impact of initial biofilm growth on the anode impedance of microbial fuel cells. Biotechnology and Bioengineering, 2008, 101, 101-108.	3.3	200
174	Effect of Biofilm Properties on the Electrochemical Performance of Microbial Fuel Cells. ECS Transactions, 2008, 13, 11-17.	0.5	7
175	Electricity production and microbial biofilm characterization in cellulose-fed microbial fuel cells. Water Science and Technology, 2008, 58, 617-622.	2.5	107
176	Microbial Fuel Cells for Wastewater Treatment. ECS Transactions, 2007, 11, 115-125.	0.5	3
177	Cellulose-Derived Electricity Production in Microbial Fuel Cells. Proceedings of the Water Environment Federation, 2007, 2007, 7959-7965.	0.0	0
178	Electricity Production from Cellulose in a Microbial Fuel Cell Using a Defined Binary Culture. Environmental Science & Technology, 2007, 41, 4781-4786.	10.0	319
179	Characterization of the cellulolytic and hydrogen-producing activities of six mesophilic Clostridium species. Journal of Applied Microbiology, 2007, 103, 2258-2266.	3.1	77
180	Energy and Performance Comparison of Microbial Fuel Cell and Conventional Aeration Treating of Wastewater. Journal of Microbial & Biochemical Technology, 0, , .	0.2	26

#	ARTICLE	IF	CITATIONS
181	Microbial Diversity and Biogeochemical Cycling of Nitrogen and Sulfur in the Source Region of the Lancang River on the Tibetan Plateau. ACS ES&T Water, 0, , .	4.6	1