Zhiyong Jason Ren

List of Publications by Year in descending order

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

Version: 2024-02-01

20817 29157 12,251 181 60 104 citations h-index g-index papers 183 183 183 9830 docs citations times ranked citing authors all docs

#	Article	IF	CITATIONS
1	A comprehensive review of microbial electrochemical systems as a platform technology. Biotechnology Advances, 2013, 31, 1796-1807.	11.7	686
2	Nature-inspired salt resistant bimodal porous solar evaporator for efficient and stable water desalination. Energy and Environmental Science, 2019, 12, 1558-1567.	30.8	482
3	Bioelectrochemical metal recovery from wastewater: A review. Water Research, 2014, 66, 219-232.	11.3	371
4	Electricity Production from Cellulose in a Microbial Fuel Cell Using a Defined Binary Culture. Environmental Science & Environmental Science & Environ	10.0	319
5	Practical Energy Harvesting for Microbial Fuel Cells: A Review. Environmental Science & Emp; Technology, 2015, 49, 3267-3277.	10.0	309
6	Wastewater treatment for carbon capture and utilization. Nature Sustainability, 2018, 1, 750-758.	23.7	299
7	Biochar as a sustainable electrode material for electricity production in microbial fuel cells. Bioresource Technology, 2014, 157, 114-119.	9.6	279
8	Microbial electrolysis cells for waste biorefinery: A state of the art review. Bioresource Technology, 2016, 215, 254-264.	9.6	273
9	Microbial Metabolism and Community Structure in Response to Bioelectrochemically Enhanced Remediation of Petroleum Hydrocarbon-Contaminated Soil. Environmental Science & Envi	10.0	254
10	Bioelectrochemical system platform for sustainable environmental remediation and energy generation. Biotechnology Advances, 2015, 33, 317-334.	11.7	253
11	High-entropy nanoparticles: Synthesis-structure-property relationships and data-driven discovery. Science, 2022, 376, eabn3103.	12.6	239
12	Granular biochar compared with activated carbon for wastewater treatment and resource recovery. Water Research, 2016, 94, 225-232.	11.3	230
13	Microbial community structure accompanied with electricity production in a constructed wetland plant microbial fuel cell. Bioresource Technology, 2015, 195, 115-121.	9.6	228
14	Microbial desalination cells for improved performance in wastewater treatment, electricity production, and desalination. Bioresource Technology, 2012, 105, 60-66.	9.6	203
15	Concurrent Desalination and Hydrogen Generation Using Microbial Electrolysis and Desalination Cells. Environmental Science & E	10.0	201
16	Impact of initial biofilm growth on the anode impedance of microbial fuel cells. Biotechnology and Bioengineering, 2008, 101, 101-108.	3.3	200
17	Carbon dioxide and organic waste valorization by microbial electrosynthesis and electro-fermentation. Water Research, 2019, 149, 42-55.	11.3	191
18	Individual and competitive removal of heavy metals using capacitive deionization. Journal of Hazardous Materials, 2016, 302, 323-331.	12.4	162

#	Article	IF	Citations
19	Enhanced bioremediation of hydrocarbon-contaminated soil using pilot-scale bioelectrochemical systems. Journal of Hazardous Materials, 2014, 274, 8-15.	12.4	154
20	Machine Learning: New Ideas and Tools in Environmental Science and Engineering. Environmental Science & Environmental	10.0	140
21	Sustainable off-grid desalination of hypersaline waters using Janus wood evaporators. Energy and Environmental Science, 2021, 14, 5347-5357.	30.8	133
22	Sustainable desalination using a microbial capacitive desalination cell. Energy and Environmental Science, 2012, 5, 7161.	30.8	130
23	Autotrophic Vanadium(V) Bioreduction in Groundwater by Elemental Sulfur and Zerovalent Iron. Environmental Science & Environme	10.0	125
24	Graphitic biochar as a cathode electrocatalyst support for microbial fuel cells. Bioresource Technology, 2015, 195, 147-153.	9.6	124
25	Two-stage conversion of crude glycerol to energy using dark fermentation linked with microbial fuel cell or microbial electrolysis cell. New Biotechnology, 2014, 31, 179-184.	4.4	121
26	Characterization of Microbial Fuel Cells at Microbially and Electrochemically Meaningful Time scales. Environmental Science &	10.0	111
27	Zinc Leaching from Tire Crumb Rubber. Environmental Science & Technology, 2012, 46, 12856-12863.	10.0	108
28	Electricity production and microbial biofilm characterization in cellulose-fed microbial fuel cells. Water Science and Technology, 2008, 58, 617-622.	2.5	107
29	Long-term performance and characterization of microbial desalination cells in treating domestic wastewater. Bioresource Technology, 2012, 120, 187-193.	9.6	103
30	Carbon nanotube modified air-cathodes for electricity production in microbial fuel cells. Journal of Power Sources, 2011, 196, 7465-7469.	7.8	102
31	Nickel based catalysts for highly efficient H2 evolution from wastewater in microbial electrolysis cells. Electrochimica Acta, 2016, 206, 381-387.	5.2	102
32	Sand amendment enhances bioelectrochemical remediation of petroleum hydrocarbon contaminated soil. Chemosphere, 2015, 141, 62-70.	8.2	99
33	Shale gas produced water treatment using innovative microbial capacitive desalination cell. Journal of Hazardous Materials, 2015, 283, 847-855.	12.4	93
34	Synthesis of a conjugated porous Co(<scp>ii</scp>) porphyrinylene–ethynylene framework through alkyne metathesis and its catalytic activity study. Journal of Materials Chemistry A, 2015, 3, 4954-4959.	10.3	89
35	lonic composition and transport mechanisms in microbial desalination cells. Journal of Membrane Science, 2012, 409-410, 16-23.	8.2	88
36	Multiple syntrophic interactions drive biohythane production from waste sludge in microbial electrolysis cells. Biotechnology for Biofuels, 2016, 9, 162.	6.2	88

#	Article	IF	Citations
37	Microbial desalination cell with capacitive adsorption for ion migration control. Bioresource Technology, 2012, 120, 332-336.	9.6	86
38	Pluggable microbial fuel cell stacks for septic wastewater treatment and electricity production. Bioresource Technology, 2015, 180, 258-263.	9.6	86
39	Production Temperature Effects on the Structure of Hydrochar-Derived Dissolved Organic Matter and Associated Toxicity. Environmental Science & Eamp; Technology, 2018, 52, 7486-7495.	10.0	86
40	Concurrent Nitrogen and Phosphorus Recovery Using Flow-Electrode Capacitive Deionization. ACS Sustainable Chemistry and Engineering, 2019, 7, 7844-7850.	6.7	84
41	Preventing masks from becoming the next plastic problem. Frontiers of Environmental Science and Engineering, 2021, 15, 125.	6.0	84
42	Nickel-Based Membrane Electrodes Enable High-Rate Electrochemical Ammonia Recovery. Environmental Science & Environmental Scie	10.0	83
43	Active Energy Harvesting from Microbial Fuel Cells at the Maximum Power Point without Using Resistors. Environmental Science &	10.0	81
44	Microbial electrochemical nutrient recovery in anaerobic osmotic membrane bioreactors. Water Research, 2017, 114, 181-188.	11.3	81
45	Hydrophobic nanostructured wood membrane for thermally efficient distillation. Science Advances, 2019, 5, eaaw3203.	10.3	81
46	Recover wastewater resources locally. Nature, 2016, 529, 25-25.	27.8	80
47	Microbial fuel cells and osmotic membrane bioreactors have mutual benefits for wastewater treatment and energy production. Water Research, 2016, 98, 183-189.	11.3	78
48	Characterization of the cellulolytic and hydrogen-producing activities of six mesophilic Clostridium species. Journal of Applied Microbiology, 2007, 103, 2258-2266.	3.1	77
49	Comparison of coal rank for enhanced biogenic natural gas production. International Journal of Coal Geology, 2013, 115, 92-96.	5.0	76
50	Microbial Electrolytic Carbon Capture for Carbon Negative and Energy Positive Wastewater Treatment. Environmental Science & Eamp; Technology, 2015, 49, 8193-8201.	10.0	76
51	Iron-rich nanoparticle encapsulated, nitrogen doped porous carbon materials as efficient cathode electrocatalyst for microbial fuel cells. Journal of Power Sources, 2016, 315, 302-307.	7.8	76
52	Production of magnetic biochar from waste-derived fungal biomass for phosphorus removal and recovery. Journal of Cleaner Production, 2019, 224, 100-106.	9.3	75
53	The global potential for converting renewable electricity to negative-CO2-emissions hydrogen. Nature Climate Change, 2018, 8, 621-625.	18.8	74
54	High efficiency energy harvesting from microbial fuel cells using a synchronous boost converter. Journal of Power Sources, 2012, 208, 322-327.	7.8	71

#	Article	IF	CITATIONS
55	Microbial electrolysis treatment of post-hydrothermal liquefaction wastewater with hydrogen generation. Applied Energy, 2018, 212, 509-515.	10.1	71
56	Active H ₂ Harvesting Prevents Methanogenesis in Microbial Electrolysis Cells. Environmental Science and Technology Letters, 2016, 3, 286-290.	8.7	70
57	Hysteresis controller based maximum power point tracking energy harvesting system for microbial fuel cells. Journal of Power Sources, 2012, 205, 151-156.	7.8	68
58	Organic content influences sediment microbial fuel cell performance and community structure. Bioresource Technology, 2016, 220, 549-556.	9.6	67
59	Geochemical and microbial characterizations of flowback and produced water in three shale oil and gas plays in the central and western United States. Water Research, 2019, 164, 114942.	11.3	64
60	Hydrophobic Gas Transfer Membranes for Wastewater Treatment and Resource Recovery. Environmental Science & Environmental Scien	10.0	64
61	Lightweight, conductive hollow fibers from nature as sustainable electrode materials for microbial energy harvesting. Nano Energy, 2014, 10, 268-276.	16.0	63
62	Microbial vanadate and nitrate reductions coupled with anaerobic methane oxidation in groundwater. Journal of Hazardous Materials, 2020, 382, 121228.	12.4	63
63	Time-course correlation of biofilm properties and electrochemical performance in single-chamber microbial fuel cells. Bioresource Technology, 2011, 102, 416-421.	9.6	61
64	Influences of Temperature and Metal on Subcritical Hydrothermal Liquefaction of Hyperaccumulator: Implications for the Recycling of Hazardous Hyperaccumulators. Environmental Science & Emp; Technology, 2018, 52, 2225-2234.	10.0	61
65	Advanced Nanowood Materials for the Water–Energy Nexus. Advanced Materials, 2021, 33, e2001240.	21.0	59
66	<i>ES&T</i> in the 21st Century: A Data-Driven Analysis of Research Topics, Interconnections, And Trends in the Past 20 Years. Environmental Science & Environmental Scien	10.0	57
67	Resin-enhanced rolling activated carbon electrode for efficient capacitive deionization. Desalination, 2017, 419, 20-28.	8.2	56
68	Self-sustaining advanced wastewater purification and simultaneous in situ nutrient recovery in a novel bioelectrochemical system. Chemical Engineering Journal, 2017, 330, 692-697.	12.7	56
69	Electrochemical Control of Redox Potential Arrests Methanogenesis and Regulates Products in Mixed Culture Electro-Fermentation. ACS Sustainable Chemistry and Engineering, 2018, 6, 8650-8658.	6.7	54
70	Heterogeneous corrosion behaviour of carbon steel in water contaminated biodiesel. Corrosion Science, 2011, 53, 845-849.	6.6	53
71	Metallated porphyrin based porous organic polymers as efficient electrocatalysts. Nanoscale, 2015, 7, 18271-18277.	5.6	52
72	Alternating Current Influences Anaerobic Electroactive Biofilm Activity. Environmental Science & Electroactive Biofilm Activity. Electroactive Biofilm Activity. Electroactive Biofilm Activity. Electroactive Biofilm Activity. Electroactive Biofilm Biofilm	10.0	52

#	Article	IF	Citations
73	A novel microbial fuel cell sensor with a gas diffusion biocathode sensing element for water and air quality monitoring. Chemosphere, 2018, 203, 21-25.	8.2	51
74	Value Proposition of Untapped Wet Wastes: Carboxylic Acid Production through Anaerobic Digestion. IScience, 2020, 23, 101221.	4.1	51
75	Microbial capacitive desalination for integrated organic matter and salt removal and energy production from unconventional natural gas produced water. Environmental Science: Water Research and Technology, 2015, 1, 47-55.	2.4	50
76	Accelerating Innovation that Enhances Resource Recovery in the Wastewater Sector: Advancing a National Testbed Network. Environmental Science & Environmental Science & 2017, 51, 7749-7758.	10.0	50
77	The Microbial Electrochemical Current Accelerates Urea Hydrolysis for Recovery of Nutrients from Source-Separated Urine. Environmental Science and Technology Letters, 2017, 4, 305-310.	8.7	50
78	Feasibility of microbial production of new natural gas from non-gas-producing lignite. International Journal of Coal Geology, 2013, 115, 79-84.	5.0	49
79	CO2 activation promotes available carbonate and phosphorus of antibiotic mycelial fermentation residue-derived biochar support for increased lead immobilization. Chemical Engineering Journal, 2018, 334, 1101-1107.	12.7	49
80	Directing Clostridium ljungdahlii fermentation products via hydrogen to carbon monoxide ratio in syngas. Biomass and Bioenergy, 2019, 124, 95-101.	5.7	49
81	Microbial fuel cell energy harvesting using synchronous flyback converter. Journal of Power Sources, 2014, 247, 636-642.	7.8	48
82	Unbiased solar H ₂ production with current density up to 23 mA cm ^{â°'2} by Swiss-cheese black Si coupled with wastewater bioanode. Energy and Environmental Science, 2019, 12, 1088-1099.	30.8	48
83	Biochar Based Microbial Fuel Cell for Enhanced Wastewater Treatment and Nutrient Recovery. Sustainability, 2016, 8, 169.	3.2	47
84	Electrochemical hythane production for renewable energy storage and biogas upgrading. Applied Energy, 2017, 187, 595-600.	10.1	47
85	Geophysical Monitoring of Hydrocarbon-Contaminated Soils Remediated with a Bioelectrochemical System. Environmental Science &	10.0	46
86	Microbial fuel cells: Running on gas. Nature Energy, 2017, 2, .	39.5	45
87	Comparative performances of microbial capacitive deionization cell and microbial fuel cell fed with produced water from the Bakken shale. Bioelectrochemistry, 2018, 121, 56-64.	4.6	45
88	Low-energy hydraulic fracturing wastewater treatment via AC powered electrocoagulation with biochar. Journal of Hazardous Materials, 2016, 309, 180-184.	12.4	44
89	Photochemical Behavior of Microbial Extracellular Polymeric Substances in the Aquatic Environment. Environmental Science & Environment.	10.0	44
90	Recycled tire crumb rubber anodes for sustainable power production in microbial fuel cells. Journal of Power Sources, 2011, 196, 5863-5866.	7.8	43

#	Article	IF	Citations
91	Capacitive deionization for nutrient recovery from wastewater with disinfection capability. Environmental Science: Water Research and Technology, 2018, 4, 33-39.	2.4	43
92	pH Dependence of Phosphorus Speciation and Transport in Flow-Electrode Capacitive Deionization. Environmental Science & Enviro	10.0	43
93	Demethanation Trend of Hydrochar Induced by Organic Solvent Washing and Its Influence on Hydrochar Activation. Environmental Science & Eamp; Technology, 2017, 51, 10756-10764.	10.0	42
94	Dominance of electroactive microbiomes in bioelectrochemical remediation of hydrocarbon-contaminated soils with different textures. Chemosphere, 2019, 235, 776-784.	8.2	42
95	Covalent organic framework-supported platinum nanoparticles as efficient electrocatalysts for water reduction. Nanoscale, 2020, 12, 2596-2602.	5.6	41
96	Hysteresis-Controller-Based Energy Harvesting Scheme for Microbial Fuel Cells With Parallel Operation Capability. IEEE Transactions on Energy Conversion, 2012, 27, 715-724.	5.2	39
97	Long-term performance of sediment microbial fuel cells with multiple anodes. Bioresource Technology, 2017, 237, 178-185.	9.6	39
98	Will Membranes Break Barriers on Volatile Fatty Acid Recovery from Anaerobic Digestion?. ACS ES&T Engineering, 2021, 1, 141-153.	7.6	39
99	Removal and fate of trace organic compounds in microbial fuel cells. Chemosphere, 2015, 125, 94-101.	8.2	38
100	Complex Formation via Hydrogen bonding between Rhodamine B and Montmorillonite in Aqueous Solution. Scientific Reports, 2018, 8, 229.	3.3	38
101	Carbon transmission of CO ₂ activated nano-MgO carbon composites enhances phosphate immobilization. Journal of Materials Chemistry A, 2018, 6, 3705-3713.	10.3	37
102	Electrochemical corrosion of carbon steel exposed to biodiesel/simulated seawater mixture. Corrosion Science, 2012, 57, 215-219.	6.6	35
103	Microbial Photoelectrosynthesis for Self-Sustaining Hydrogen Generation. Environmental Science & Envir	10.0	34
104	Swift Acid Rain Sensing by Synergistic Rhizospheric Bioelectrochemical Responses. ACS Sensors, 2018, 3, 1424-1430.	7.8	34
105	Synthesis, characterization and adsorption capacity of magnetic carbon composites activated by CO ₂ : implication for the catalytic mechanisms of iron salts. Journal of Materials Chemistry A, 2016, 4, 18942-18951.	10.3	33
106	Active harvesting enhances energy recovery and function of electroactive microbiomes in microbial fuel cells. Applied Energy, 2019, 247, 492-502.	10.1	33
107	Pulse electromagnetic fields enhance extracellular electron transfer in magnetic bioelectrochemical systems. Biotechnology for Biofuels, 2017, 10, 238.	6.2	32
108	Oily bilge water treatment using DC/AC powered electrocoagulation. Environmental Science: Water Research and Technology, 2019, 5, 1654-1660.	2.4	30

#	Article	IF	CITATIONS
109	Electricity from anaerobic methane oxidation by a single methanogenic archaeon Methanosarcina barkeri. Chemical Engineering Journal, 2021, 405, 126691.	12.7	30
110	Energy-neutral sustainable nutrient recovery incorporated with the wastewater purification process in an enlarged microbial nutrient recovery cell. Journal of Power Sources, 2018, 384, 160-164.	7.8	29
111	Efficient ammonia recovery from wastewater using electrically conducting gas stripping membranes. Environmental Science: Nano, 2020, 7, 1759-1771.	4.3	29
112	Brönsted Catalyzed Hydrolysis of Microcystin-LR by Siderite. Environmental Science & Environmental Sc	10.0	28
113	Microbial electrochemical treatment of biorefinery black liquor and resource recovery. Green Chemistry, 2019, 21, 1258-1266.	9.0	28
114	Greenhouse gas emissions associated with urban water infrastructure: What we have learnt from China's practice. Wiley Interdisciplinary Reviews: Water, 2021, 8, e1529.	6.5	28
115	Spontaneous Solar Syngas Production from CO2 Driven by Energetically Favorable Wastewater Microbial Anodes. Joule, 2020, 4, 2149-2161.	24.0	27
116	A salt-rejecting anisotropic structure for efficient solar desalination ⟨i⟩via⟨ i⟩ heat–mass flux decoupling. Journal of Materials Chemistry A, 2020, 8, 12089-12096.	10.3	27
117	Thermoresponsive Polymers for Water Treatment and Collection. Macromolecules, 2022, 55, 1894-1909.	4.8	27
118	Long-term in situ bioelectrochemical monitoring of biohythane process: Metabolic interactions and microbial evolution. Bioresource Technology, 2021, 332, 125119.	9.6	26
119	Energy and Performance Comparison of Microbial Fuel Cell and Conventional Aeration Treating of Wastewater. Journal of Microbial & Biochemical Technology, 0, , .	0.2	26
120	Upscaling 3D Engineered Trees for Off-Grid Desalination. Environmental Science & Environmental Science	10.0	26
121	Power electronic converters for microbial fuel cell energy extraction: Effects of inductance, duty ratio, and switching frequency. Journal of Power Sources, 2012, 220, 89-94.	7.8	25
122	Urine-powered synergy of nutrient recovery and urine purification in a microbial electrochemical system. Environmental Science: Water Research and Technology, 2018, 4, 1427-1438.	2.4	25
123	Microbial Electrosynthesis for Producing Medium Chain Fatty Acids. Engineering, 2022, 16, 141-153.	6.7	23
124	Graphene oxide and H2 production from bioelectrochemical graphite oxidation. Scientific Reports, 2015, 5, 16242.	3.3	22
125	Energy harvesting influences electrochemical performance of microbial fuel cells. Journal of Power Sources, 2017, 356, 356-364.	7.8	22
126	High performance spiral wound microbial fuel cell with hydraulic characterization. Bioresource Technology, 2014, 174, 287-293.	9.6	21

#	Article	IF	Citations
127	Percarbonate as a naturally buffering catholyte for microbial fuel cells. Bioresource Technology, 2014, 172, 429-432.	9.6	21
128	Shipboard bilge water treatment by electrocoagulation powered by microbial fuel cells. Frontiers of Environmental Science and Engineering, 2019, 13, 1.	6.0	21
129	Electrical decoupling of microbial electrochemical reactions enables spontaneous H ₂ evolution. Energy and Environmental Science, 2020, 13, 495-502.	30.8	20
130	Electrochemical biofilm control by reconstructing microbial community in agricultural water distribution systems. Journal of Hazardous Materials, 2021, 403, 123616.	12.4	20
131	A conductive wood membrane anode improves effluent quality of microbial fuel cells. Environmental Science: Water Research and Technology, 2017, 3, 940-946.	2.4	19
132	Anaerobic membrane gas extraction facilitates thermophilic hydrogen production from <i>Clostridium thermocellum</i> . Environmental Science: Water Research and Technology, 2018, 4, 1771-1782.	2.4	19
133	Molecular Transformation of Crude Oil Contaminated Soil after Bioelectrochemical Degradation Revealed by FT-ICR Mass Spectrometry. Environmental Science & Environmental Science & 2020, 54, 2500-2509.	10.0	19
134	Dynamic modeling of a microbial fuel cell considering anodic electron flow and electrical charge storage. Applied Energy, 2017, 193, 507-514.	10.1	18
135	Self-sustaining carbon capture and mineralization via electrolytic carbonation of coal fly ash. Chemical Engineering Journal, 2016, 306, 330-335.	12.7	17
136	Ambient CO2 capture and storage in bioelectrochemically mediated wastewater treatment. Bioresource Technology, 2016, 215, 380-385.	9.6	17
137	AC power generation from microbial fuel cells. Journal of Power Sources, 2015, 297, 252-259.	7.8	16
138	Moisture retention extended enhanced bioelectrochemical remediation of unsaturated soil. Science of the Total Environment, 2020, 724, 138169.	8.0	16
139	Anode co-valorization for scalable and sustainable electrolysis. Green Chemistry, 2021, 23, 7917-7936.	9.0	16
140	A liter-scale microbial capacitive deionization system for the treatment of shale gas wastewater. Environmental Science: Water Research and Technology, 2016, 2, 353-361.	2.4	15
141	Cathode Material Development in the Past Decade for H ₂ Production from Microbial Electrolysis Cells. ACS Environmental Au, 2022, 2, 20-29.	7.0	15
142	Cell-Free CO ₂ Valorization to C6 Pharmaceutical Precursors via a Novel Electro-Enzymatic Process. ACS Sustainable Chemistry and Engineering, 2022, 10, 4114-4121.	6.7	15
143	Decarbonylation reaction of saturated and oxidized tar from pyrolysis of low aromaticity biomass boost reduction of hexavalent chromium. Chemical Engineering Journal, 2019, 360, 1042-1050.	12.7	14
144	Electro-fermentation enhances H2 and ethanol co-production by regulating electron transfer and substrate transmembrane transport. Chemical Engineering Journal, 2022, 429, 132223.	12.7	14

#	Article	IF	Citations
145	Engineered wood for a sustainable future. Matter, 2022, 5, 1326-1329.	10.0	14
146	Syngas mediated microbial electrosynthesis for CO2 to acetate conversion using Clostridium ljungdahlii. Resources, Conservation and Recycling, 2022, 184, 106395.	10.8	14
147	Controlled Growth of Nanostructured Biotemplates with Cobalt and Nitrogen Codoping as a Binderless Lithium-Ion Battery Anode. ACS Applied Materials & Interfaces, 2016, 8, 26868-26877.	8.0	13
148	Circular utilization of food waste to biochar enhances thermophilic co-digestion performance. Bioresource Technology, 2021, 332, 125130.	9.6	13
149	Interplay of Anode, Cathode, and Current in Microbial Fuel Cells: Implications for Wastewater Treatment. Energy Technology, 2016, 4, 583-592.	3.8	12
150	Characterization of implementation limits and identification of optimization strategies for sustainable water resource recovery through life cycle impact analysis. Environment International, 2019, 133, 105266.	10.0	12
151	Deep Learning Optimization for Soft Sensing of Hard-to-Measure Wastewater Key Variables. ACS ES&T Engineering, 2022, 2, 1341-1355.	7.6	12
152	Membrane configuration influences microbial capacitive desalination performance. Environmental Science: Water Research and Technology, 2015, 1, 348-354.	2.4	10
153	Electricity Enhances Biological Fe(III) Reduction and Phosphorus Recovery from FeP Complex: Proof of Concept and Kinetic Analysis. ACS ES&T Engineering, 2021, 1, 523-532.	7.6	10
154	U.S.–China Collaboration is Vital to Global Plans for a Healthy Environment and Sustainable Development. Environmental Science & Environment & Environment & Environment & Environmental Science & Environment	10.0	10
155	Efficient energy harvester for microbial fuel cells using DC/DC converters., 2011,,.		9
156	Sensitivity and Bifurcation Analysis of a Differential-Algebraic Equation Model for a Microbial Electrolysis Cell. SIAM Journal on Applied Dynamical Systems, 2019, 18, 709-728.	1.6	8
157	Effect of Biofilm Properties on the Electrochemical Performance of Microbial Fuel Cells. ECS Transactions, 2008, 13, 11-17.	0.5	7
158	High rate CO2 valorization to organics via CO mediated silica nanoparticle enhanced fermentation. Applied Energy, 2020, 279, 115725.	10.1	7
159	Selective ligand modification of cobalt porphyrins for carbon dioxide electrolysis: Generation of a renewable H2/CO feedstock for downstream catalytic hydrogenation. Inorganica Chimica Acta, 2020, 507, 119594.	2.4	7
160	Adaptive soft sensing of river flow prediction for wastewater treatment operation and risk management. Water Research, 2022, 220, 118714.	11.3	7
161	Comment on "Unbiased solar H ₂ production with current density up to 23 mA cm ^{â°'2} 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. Energy and Environmental Science. 2019. 12. 3412-3414.	30.8	6
162	Electrocatalytic Membranes for Tunable Syngas Production and High-Efficiency Delivery to Biocompatible Electrolytes. ACS Sustainable Chemistry and Engineering, 2021, 9, 6012-6022.	6.7	6

#	Article	IF	Citations
163	Monitoring in situ microbial activities in wet or clayey soils by a novel microbial-electrochemical technology. Environmental Technology and Innovation, 2020, 18, 100695.	6.1	5
164	Energy-efficient microbial electrochemical lignin and alkaline hydroxide recovery from DMR black liquor. Resources, Conservation and Recycling, 2022, 186, 106529.	10.8	5
165	Capacitive deionization and electrosorption: from desalination to ion management. Environmental Science: Water Research and Technology, 2020, 6, 241-242.	2.4	4
166	The interplay of active energy harvesting and wastewater organic loading regulates fermentation products and microbiomes in microbial fuel cells. Resources, Conservation and Recycling, 2022, 183, 106366.	10.8	4
167	Data Science for Advancing Environmental Science, Engineering, and Technology: Upcoming Special and Virtual Issues in <i>ES&T</i> and <i>ES&T Letters</i> Environmental Science & Technology, 2022, 56, 9827-9828.	10.0	4
168	Microbial Fuel Cells for Wastewater Treatment. ECS Transactions, 2007, 11, 115-125.	0.5	3
169	The Principle and Applications of Bioelectrochemical Systems. , 2013, , 501-527.		3
170	Editorial Perspectives: the value proposition of resource recovery. Environmental Science: Water Research and Technology, 2019, 5, 196-197.	2.4	3
171	Competitive exclusion in a DAE model for microbial electrolysis cells. Mathematical Biosciences and Engineering, 2020, 17, 6217-6239.	1.9	3
172	The Establishment and Characteristics of Dominant Syntrophic Propionate Oxidation Bacteria and Sulfate-Reducing Bacteria in a Mixed Culture. Chemical Engineering Communications, 2017, 204, 926-936.	2.6	2
173	Data Science for Advancing Environmental Science, Engineering, and Technology: Upcoming Special and Virtual Issues in <i>ES&T</i> and <i>ES&T Letters</i> Environmental Science and Technology Letters, 2022, 9, 581-582.	8.7	2
174	Graphene-integrated polymeric membrane as a flexible, multifunctional electrode. Chemical Engineering Science, 2019, 209, 115221.	3.8	1
175	Metal-insulator-semiconductor (MIS) photoelectrodes: distance improves performance. National Science Review, 2021, 8, nwab089.	9.5	1
176	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
177	Cellulose-Derived Electricity Production in Microbial Fuel Cells. Proceedings of the Water Environment Federation, 2007, 2007, 7959-7965.	0.0	0
178	Researchers discover a way to simultaneously desalinate water, produce hydrogen and treat wastewater. Membrane Technology, 2011, 2011, 8.	0.1	0
179	Microbial Capacitive Desalination for Integrated Organic and Salt Removal and Energy Production from Shale Gas Wastewater. Proceedings of the Water Environment Federation, 2015, 2015, 4503-4508.	0.0	0
180	Toward a net zero circular water economy. , 2022, , 1-13.		0

ARTICLE IF CITATIONS

181 Carbon valorization using the microbial electrochemical technology platform., 2022,, 83-98.