

Zhen He

List of Publications by Year in descending order

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257
papers

18,898
citations

7551

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14702

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all docs

260
docs citations

260
times ranked

13228
citing authors

#	ARTICLE	IF	CITATIONS
1	Towards sustainable wastewater treatment by using microbial fuel cells-centered technologies. <i>Energy and Environmental Science</i> , 2014, 7, 911-924.	15.6	746
2	Electricity Generation from Artificial Wastewater Using an Upflow Microbial Fuel Cell. <i>Environmental Science & Technology</i> , 2005, 39, 5262-5267.	4.6	680
3	Exploring the use of electrochemical impedance spectroscopy (EIS) in microbial fuel cell studies. <i>Energy and Environmental Science</i> , 2009, 2, 215-219.	15.6	584
4	Nitrogen-Enriched Core-Shell Structured Fe/Fe ₃ C Nanorods as Advanced Electrocatalysts for Oxygen Reduction Reaction. <i>Advanced Materials</i> , 2012, 24, 1399-1404.	11.1	517
5	Application of Bacterial Biocathodes in Microbial Fuel Cells. <i>Electroanalysis</i> , 2006, 18, 2009-2015.	1.5	493
6	Compression and Aggregation-Resistant Particles of Crumpled Soft Sheets. <i>ACS Nano</i> , 2011, 5, 8943-8949.	7.3	482
7	An Upflow Microbial Fuel Cell with an Interior Cathode: Assessment of the Internal Resistance by Impedance Spectroscopy. <i>Environmental Science & Technology</i> , 2006, 40, 5212-5217.	4.6	442
8	Nutrients removal and recovery in bioelectrochemical systems: A review. <i>Bioresource Technology</i> , 2014, 153, 351-360.	4.8	419
9	Oxygen reduction reaction catalysts used in microbial fuel cells for energy-efficient wastewater treatment: a review. <i>Materials Horizons</i> , 2016, 3, 382-401.	6.4	322
10	Light energy to bioelectricity: photosynthetic microbial fuel cells. <i>Current Opinion in Biotechnology</i> , 2010, 21, 259-264.	3.3	314
11	Effect of electrolyte pH on the rate of the anodic and cathodic reactions in an air-cathode microbial fuel cell. <i>Bioelectrochemistry</i> , 2008, 74, 78-82.	2.4	308
12	Long-Term Performance of Liter-Scale Microbial Fuel Cells Treating Primary Effluent Installed in a Municipal Wastewater Treatment Facility. <i>Environmental Science & Technology</i> , 2013, 47, 4941-4948.	4.6	287
13	Crumpled graphene particles for microbial fuel cell electrodes. <i>Journal of Power Sources</i> , 2012, 208, 187-192.	4.0	274
14	Efficient salt removal in a continuously operated upflow microbial desalination cell with an air cathode. <i>Bioresource Technology</i> , 2011, 102, 376-380.	4.8	226
15	Real-Time Trajectory Planning for Autonomous Urban Driving: Framework, Algorithms, and Verifications. <i>IEEE/ASME Transactions on Mechatronics</i> , 2016, 21, 740-753.	3.7	226
16	Recovery of Electrical Energy in Microbial Fuel Cells. <i>Environmental Science and Technology Letters</i> , 2014, 1, 137-141.	3.9	221
17	Increased power production from a sediment microbial fuel cell with a rotating cathode. <i>Biosensors and Bioelectronics</i> , 2007, 22, 3252-3255.	5.3	206
18	Long-term performance of a 200 liter modularized microbial fuel cell system treating municipal wastewater: treatment, energy, and cost. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 274-281.	1.2	200

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19	Integrating Forward Osmosis into Microbial Fuel Cells for Wastewater Treatment, Water Extraction and Bioelectricity Generation. <i>Environmental Science & Technology</i> , 2011, 45, 6690-6696.	4.6	199
20	A 3D hybrid of layered MoS ₂ /nitrogen-doped graphene nanosheet aerogels: an effective catalyst for hydrogen evolution in microbial electrolysis cells. <i>Journal of Materials Chemistry A</i> , 2014, 2, 13795-13800.	5.2	198
21	Electricity Production Coupled to Ammonium in a Microbial Fuel Cell. <i>Environmental Science & Technology</i> , 2009, 43, 3391-3397.	4.6	190
22	Self-Sustained Phototrophic Microbial Fuel Cells Based on the Synergistic Cooperation between Photosynthetic Microorganisms and Heterotrophic Bacteria. <i>Environmental Science & Technology</i> , 2009, 43, 1648-1654.	4.6	176
23	Enhancing sludge methanogenesis with improved redox activity of extracellular polymeric substances by hematite in red mud. <i>Water Research</i> , 2018, 134, 54-62.	5.3	175
24	Use of a Liter-Scale Microbial Desalination Cell As a Platform to Study Bioelectrochemical Desalination with Salt Solution or Artificial Seawater. <i>Environmental Science & Technology</i> , 2011, 45, 4652-4657.	4.6	174
25	Integrated Photo-Bioelectrochemical System for Contaminants Removal and Bioenergy Production. <i>Environmental Science & Technology</i> , 2012, 46, 11459-11466.	4.6	173
26	Graphene-modified electrodes for enhancing the performance of microbial fuel cells. <i>Nanoscale</i> , 2015, 7, 7022-7029.	2.8	166
27	Nitrogen removal by granular nitrification-“anammox in an upflow membrane-aerated biofilm reactor. <i>Water Research</i> , 2016, 94, 23-31.	5.3	158
28	Synthesizing Nitrogen-Doped Activated Carbon and Probing its Active Sites for Oxygen Reduction Reaction in Microbial Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2014, 6, 7464-7470.	4.0	157
29	Powering a wireless temperature sensor using sediment microbial fuel cells with vertical arrangement of electrodes. <i>Journal of Power Sources</i> , 2011, 196, 9568-9573.	4.0	149
30	Water softening using microbial desalination cell technology. <i>Desalination</i> , 2013, 309, 32-37.	4.0	145
31	Methods for understanding microbial community structures and functions in microbial fuel cells: A review. <i>Bioresource Technology</i> , 2014, 171, 461-468.	4.8	145
32	TiO ₂ nanoparticles-decorated carbon nanotubes for significantly improved bioelectricity generation in microbial fuel cells. <i>Journal of Power Sources</i> , 2013, 234, 100-106.	4.0	136
33	Integrating membrane filtration into bioelectrochemical systems as next generation energy-efficient wastewater treatment technologies for water reclamation: A review. <i>Bioresource Technology</i> , 2015, 195, 202-209.	4.8	134
34	Nitrogen-doped graphene/CoNi alloy encased within bamboo-like carbon nanotube hybrids as cathode catalysts in microbial fuel cells. <i>Journal of Power Sources</i> , 2016, 307, 561-568.	4.0	128
35	Urban river pollution control in developing countries. <i>Nature Sustainability</i> , 2019, 2, 158-160.	11.5	128
36	Decorating anode with bamboo-like nitrogen-doped carbon nanotubes for microbial fuel cells. <i>Electrochemistry Communications</i> , 2012, 14, 71-74.	2.3	127

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37	Microbial desalination cells as a versatile technology: Functions, optimization and prospective. <i>Desalination</i> , 2015, 371, 9-17.	4.0	123
38	Effects of anolyte recirculation rates and catholytes on electricity generation in a litre-scale upflow microbial fuel cell. <i>Energy and Environmental Science</i> , 2010, 3, 1347.	15.6	120
39	Mainstream upflow nitrification-anammox system with hybrid anaerobic pretreatment: Long-term performance and microbial community dynamics. <i>Water Research</i> , 2017, 125, 298-308.	5.3	118
40	Applications and perspectives of phototrophic microorganisms for electricity generation from organic compounds in microbial fuel cells. <i>Renewable and Sustainable Energy Reviews</i> , 2014, 37, 550-559.	8.2	117
41	Efficiently "pumping out" value-added resources from wastewater by bioelectrochemical systems: A review from energy perspectives. <i>Water Research</i> , 2018, 131, 62-73.	5.3	117
42	Resource recovery from landfill leachate using bioelectrochemical systems: Opportunities, challenges, and perspectives. <i>Bioresource Technology</i> , 2016, 201, 347-354.	4.8	116
43	Enhancing wastewater reuse by forward osmosis with self-diluted commercial fertilizers as draw solutes. <i>Water Research</i> , 2016, 99, 235-243.	5.3	115
44	Long-term investigation of microbial fuel cells treating primary sludge or digested sludge. <i>Bioresource Technology</i> , 2013, 136, 509-514.	4.8	113
45	Long-term investigation of fouling of cation and anion exchange membranes in microbial desalination cells. <i>Desalination</i> , 2013, 325, 48-55.	4.0	112
46	Energy extraction from a large-scale microbial fuel cell system treating municipal wastewater. <i>Journal of Power Sources</i> , 2015, 297, 260-264.	4.0	112
47	A review of landfill leachate induced ultraviolet quenching substances: Sources, characteristics, and treatment. <i>Water Research</i> , 2018, 145, 297-311.	5.3	111
48	Exceptional capacitive deionization rate and capacity by block copolymer-based porous carbon fibers. <i>Science Advances</i> , 2020, 6, eaaz0906.	4.7	108
49	Facile Synthesis of MoS ₂ @CNT as an Effective Catalyst for Hydrogen Production in Microbial Electrolysis Cells. <i>ChemElectroChem</i> , 2014, 1, 1828-1833.	1.7	107
50	Improving water desalination by hydraulically coupling an osmotic microbial fuel cell with a microbial desalination cell. <i>Journal of Membrane Science</i> , 2013, 441, 18-24.	4.1	106
51	Applications of high gravity technologies for wastewater treatment: A review. <i>Chemical Engineering Journal</i> , 2017, 313, 912-927.	6.6	105
52	Scaling up microbial desalination cell system with a post-aerobic process for simultaneous wastewater treatment and seawater desalination. <i>Desalination</i> , 2015, 360, 28-34.	4.0	102
53	Recovery of nitrogen and water from landfill leachate by a microbial electrolysis cell-based forward osmosis system. <i>Bioresource Technology</i> , 2016, 200, 485-492.	4.8	102
54	Light-driven carbon dioxide reduction to methane by <i>Methanosarcina barkeri</i> -CdS biohybrid. <i>Applied Catalysis B: Environmental</i> , 2019, 257, 117916.	10.8	102

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55	Critical review of bioelectrochemical systems integrated with membrane-based technologies for desalination, energy self-sufficiency, and high-efficiency water and wastewater treatment. <i>Desalination</i> , 2019, 452, 40-67.	4.0	98
56	Microbial reduction of vanadium (V) in groundwater: Interactions with coexisting common electron acceptors and analysis of microbial community. <i>Environmental Pollution</i> , 2017, 231, 1362-1369.	3.7	96
57	A microfluidic microbial fuel cell fabricated by soft lithography. <i>Bioresource Technology</i> , 2011, 102, 5836-5840.	4.8	93
58	Integrated salinity reduction and water recovery in an osmotic microbial desalination cell. <i>RSC Advances</i> , 2012, 2, 3265.	1.7	93
59	Integrated organic and nitrogen removal with electricity generation in a tubular dual-cathode microbial fuel cell. <i>Process Biochemistry</i> , 2012, 47, 2146-2151.	1.8	93
60	Reducing effluent discharge and recovering bioenergy in an osmotic microbial fuel cell treating domestic wastewater. <i>Desalination</i> , 2013, 312, 52-59.	4.0	93
61	Electrochemical Relithiation for Direct Regeneration of LiCoO_2 Materials from Spent Lithium-Ion Battery Electrodes. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 11596-11605.	3.2	92
62	Self-Supplied Ammonium Bicarbonate Draw Solute for Achieving Wastewater Treatment and Recovery in a Microbial Electrolysis Cell-Forward Osmosis-Coupled System. <i>Environmental Science and Technology Letters</i> , 2014, 1, 437-441.	3.9	90
63	A new method for nutrients removal and recovery from wastewater using a bioelectrochemical system. <i>Bioresource Technology</i> , 2014, 166, 630-634.	4.8	90
64	Microbial Fuel Cells: Now Let us Talk about Energy. <i>Environmental Science & Technology</i> , 2013, 47, 332-333.	4.6	89
65	Tackle reverse solute flux in forward osmosis towards sustainable water recovery: reduction and perspectives. <i>Water Research</i> , 2019, 149, 362-374.	5.3	89
66	Enhancing desalination and wastewater treatment by coupling microbial desalination cells with forward osmosis. <i>Chemical Engineering Journal</i> , 2015, 270, 437-443.	6.6	88
67	Highly-efficient photocatalytic disinfection of <i>Escherichia coli</i> under visible light using carbon supported Vanadium Tetrasulfide nanocomposites. <i>Applied Catalysis B: Environmental</i> , 2018, 224, 383-393.	10.8	88
68	Simultaneous nitrification and denitrification with electricity generation in dual-cathode microbial fuel cells. <i>Journal of Chemical Technology and Biotechnology</i> , 2012, 87, 153-159.	1.6	87
69	Light-driven nitrous oxide production via autotrophic denitrification by self-photosensitized <i>Thiobacillus denitrificans</i> . <i>Environment International</i> , 2019, 127, 353-360.	4.8	87
70	Porous Carbon Nanosheets Codoped with Nitrogen and Sulfur for Oxygen Reduction Reaction in Microbial Fuel Cells. <i>ACS Applied Materials & Interfaces</i> , 2015, 7, 18672-18678.	4.0	86
71	Self-Biased Solar-Microbial Device for Sustainable Hydrogen Generation. <i>ACS Nano</i> , 2013, 7, 8728-8735.	7.3	84
72	Rapid Photocatalytic Decolorization of Methyl Orange under Visible Light Using $\text{VS}_4/\text{Carbon Powder}$ Nanocomposites. <i>ACS Sustainable Chemistry and Engineering</i> , 2017, 5, 7690-7699.	3.2	83

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73	Carbon/iron-based nanorod catalysts for hydrogen production in microbial electrolysis cells. <i>Nano Energy</i> , 2012, 1, 751-756.	8.2	82
74	Nutrient-energy-water recovery from synthetic sidestream centrate using a microbial electrolysis cell - forward osmosis hybrid system. <i>Journal of Cleaner Production</i> , 2017, 154, 16-25.	4.6	82
75	Nitrate removal from groundwater driven by electricity generation and heterotrophic denitrification in a bioelectrochemical system. <i>Journal of Hazardous Materials</i> , 2013, 262, 614-619.	6.5	81
76	In situ investigation of tubular microbial fuel cells deployed in an aeration tank at a municipal wastewater treatment plant. <i>Bioresource Technology</i> , 2013, 136, 316-321.	4.8	81
77	A fluidized bed membrane bioelectrochemical reactor for energy-efficient wastewater treatment. <i>Bioresource Technology</i> , 2014, 167, 310-315.	4.8	79
78	Hydrogen production in microbial electrolysis cells: Choice of catholyte. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 9619-9624.	3.8	78
79	Mathematical Model of Dynamic Behavior of Microbial Desalination Cells for Simultaneous Wastewater Treatment and Water Desalination. <i>Environmental Science & Technology</i> , 2014, 48, 13010-13019.	4.6	76
80	Sustainable management of landfill leachate concentrate through recovering humic substance as liquid fertilizer by loose nanofiltration. <i>Water Research</i> , 2019, 157, 555-563.	5.3	75
81	Opportunities for nanotechnology to enhance electrochemical treatment of pollutants in potable water and industrial wastewater – a perspective. <i>Environmental Science: Nano</i> , 2020, 7, 2178-2194.	2.2	74
82	Understanding the application niche of microbial fuel cells in a cheese wastewater treatment process. <i>Bioresource Technology</i> , 2014, 157, 154-160.	4.8	73
83	Enhanced treatment of petroleum refinery wastewater by short-term applied voltage in single chamber microbial fuel cell. <i>Bioresource Technology</i> , 2018, 253, 16-21.	4.8	73
84	Status, Challenges, and Perspectives of Mainstream Nitritation – Anammox for Wastewater Treatment. <i>Water Environment Research</i> , 2018, 90, 634-649.	1.3	72
85	Effects of draw solutions and membrane conditions on electricity generation and water flux in osmotic microbial fuel cells. <i>Bioresource Technology</i> , 2012, 109, 70-76.	4.8	68
86	A Review of Modeling Bioelectrochemical Systems: Engineering and Statistical Aspects. <i>Energies</i> , 2016, 9, 111.	1.6	66
87	Energy consumption by forward osmosis treatment of landfill leachate for water recovery. <i>Waste Management</i> , 2017, 63, 284-291.	3.7	66
88	Ammonium removal from synthetic wastewater promoted by current generation and water flux in an osmotic microbial fuel cell. <i>Journal of Cleaner Production</i> , 2017, 149, 856-862.	4.6	64
89	Biosynthesis of palladium nanoparticles using <i>Shewanella loihica</i> PV-4 for excellent catalytic reduction of chromium(VI). <i>Environmental Science: Nano</i> , 2018, 5, 730-739.	2.2	64
90	Evaluation of normalized energy recovery (NER) in microbial fuel cells affected by reactor dimensions and substrates. <i>Bioresource Technology</i> , 2014, 157, 77-83.	4.8	63

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91	Simultaneous formation of nanoscale zero-valent iron and degradation of nitrobenzene in wastewater in an impinging stream-rotating packed bed reactor. <i>Chemical Engineering Journal</i> , 2017, 321, 564-571.	6.6	63
92	Forward osmosis promoted in-situ formation of struvite with simultaneous water recovery from digested swine wastewater. <i>Chemical Engineering Journal</i> , 2018, 342, 274-280.	6.6	62
93	Integrated experimental investigation and mathematical modeling of brackish water desalination and wastewater treatment in microbial desalination cells. <i>Water Research</i> , 2015, 77, 13-23.	5.3	60
94	Bioelectricity generation from treatment of petroleum refinery wastewater with simultaneous seawater desalination in microbial desalination cells. <i>Energy Conversion and Management</i> , 2017, 141, 101-107.	4.4	59
95	Hollow fiber membrane bioelectrochemical reactor for domestic wastewater treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2013, 88, 1584-1590.	1.6	58
96	Nitrogen-doped activated carbon as a metal free catalyst for hydrogen production in microbial electrolysis cells. <i>RSC Advances</i> , 2014, 4, 49161-49164.	1.7	55
97	Evaluation of energy consumption of treating nitrate-contaminated groundwater by bioelectrochemical systems. <i>Science of the Total Environment</i> , 2018, 636, 881-890.	3.9	55
98	Mitigation of Salinity Buildup and Recovery of Wasted Salts in a Hybrid Osmotic Membrane Bioreactor-Electrodialysis System. <i>Environmental Science & Technology</i> , 2015, 49, 10529-10535.	4.6	54
99	Enhancing forward osmosis water recovery from landfill leachate by desalinating brine and recovering ammonia in a microbial desalination cell. <i>Bioresource Technology</i> , 2018, 255, 76-82.	4.8	54
100	Enhancing recovery of magnesium as struvite from landfill leachate by pretreatment of calcium with simultaneous reduction of liquid volume via forward osmosis. <i>Science of the Total Environment</i> , 2018, 610-611, 137-146.	3.9	54
101	One-pot synthesis of high-performance Co/graphene electrocatalysts for glucose fuel cells free of enzymes and precious metals. <i>Chemical Communications</i> , 2015, 51, 9354-9357.	2.2	52
102	Reduction of reagent requirements and sludge generation in Fenton's oxidation of landfill leachate by synergistically incorporating forward osmosis and humic acid recovery. <i>Water Research</i> , 2019, 151, 310-317.	5.3	52
103	Energy production, use and saving in a bioelectrochemical desalination system. <i>RSC Advances</i> , 2012, 2, 10673.	1.7	51
104	Treatment of metallurgical industry wastewater for organic contaminant removal in China: status, challenges, and perspectives. <i>Environmental Science: Water Research and Technology</i> , 2017, 3, 1015-1031.	1.2	51
105	Algal-microbial community collaboration for energy recovery and nutrient remediation from wastewater in integrated photobioelectrochemical systems. <i>Algal Research</i> , 2017, 24, 527-539.	2.4	50
106	Effects of number of cell pairs on the performance of microbial desalination cells. <i>Desalination</i> , 2014, 341, 101-106.	4.0	49
107	Sediment microbial fuel cells for wastewater treatment: challenges and opportunities. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 279-284.	1.2	49
108	Grape pomace and its secondary waste management: Biochar production for a broad range of lead (Pb) removal from water. <i>Environmental Research</i> , 2020, 186, 109442.	3.7	49

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109	Understanding electricity generation in osmotic microbial fuel cells through integrated experimental investigation and mathematical modeling. <i>Bioresource Technology</i> , 2015, 195, 194-201.	4.8	47
110	Development of Microbial Fuel Cells Needs To Go beyond "Power Density". <i>ACS Energy Letters</i> , 2017, 2, 700-702.	8.8	47
111	Life cycle assessment of a microbial desalination cell for sustainable wastewater treatment and saline water desalination. <i>Journal of Cleaner Production</i> , 2018, 200, 900-910.	4.6	47
112	Integrated experimental and modeling evaluation of energy consumption for ammonia recovery in bioelectrochemical systems. <i>Chemical Engineering Journal</i> , 2017, 327, 924-931.	6.6	46
113	Cylindrical graphite based microbial fuel cell for the treatment of industrial wastewaters and bioenergy generation. <i>Bioresource Technology</i> , 2018, 247, 753-758.	4.8	46
114	When Bioelectrochemical Systems Meet Forward Osmosis: Accomplishing Wastewater Treatment and Reuse through Synergy. <i>Water (Switzerland)</i> , 2015, 7, 38-50.	1.2	45
115	Boron removal from saline water by a microbial desalination cell integrated with donnan dialysis. <i>Desalination</i> , 2015, 376, 55-61.	4.0	45
116	Improving the flexibility of microbial desalination cells through spatially decoupling anode and cathode. <i>Bioresource Technology</i> , 2013, 144, 304-310.	4.8	44
117	Mathematical modeling assisted investigation of forward osmosis as pretreatment for microbial desalination cells to achieve continuous water desalination and wastewater treatment. <i>Journal of Membrane Science</i> , 2016, 502, 116-123.	4.1	44
118	Effects of electron acceptors on removal of antibiotic resistant <i>Escherichia coli</i> , resistance genes and class 1 integrons under anaerobic conditions. <i>Science of the Total Environment</i> , 2016, 569-570, 1587-1594.	3.9	43
119	Enhanced disinfection of <i>Escherichia coli</i> and bacteriophage MS2 in water using a copper and silver loaded titanium dioxide nanowire membrane. <i>Frontiers of Environmental Science and Engineering</i> , 2016, 10, 1.	3.3	43
120	Enhanced nitrogen removal by membrane-aerated nitrification-anammox in a bioelectrochemical system. <i>Bioresource Technology</i> , 2017, 238, 22-29.	4.8	42
121	Effective control of biohydrogen composition through operational strategies in an innovative microbial electrolysis cell. <i>Applied Energy</i> , 2017, 206, 879-886.	5.1	42
122	Selective recovery of lead and zinc through controlling cathodic potential in a bioelectrochemically-assisted electrodeposition system. <i>Journal of Hazardous Materials</i> , 2020, 386, 121941.	6.5	42
123	Electrochemical nitrate removal with simultaneous magnesium recovery from a mimicked RO brine assisted by in situ chloride ions. <i>Journal of Hazardous Materials</i> , 2020, 388, 122085.	6.5	42
124	A cooperative microbial fuel cell system for waste treatment and energy recovery. <i>Environmental Technology (United Kingdom)</i> , 2013, 34, 1905-1913.	1.2	41
125	Bioelectrochemical deposition of palladium nanoparticles as catalysts by <i>Shewanella oneidensis</i> MR-1 towards enhanced hydrogen production in microbial electrolysis cells. <i>Electrochimica Acta</i> , 2019, 318, 794-800.	2.6	41
126	Energy Consumption by Recirculation: A Missing Parameter When Evaluating Forward Osmosis. <i>Environmental Science & Technology</i> , 2016, 50, 6827-6829.	4.6	40

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127	Advancing membrane bioelectrochemical reactor (<sc>MBER</sc>) with hollowâ€fiber membranes installed in the cathode compartment. <i>Journal of Chemical Technology and Biotechnology</i> , 2014, 89, 1330-1336.	1.6	39
128	Effects of current generation and electrolyte pH on reverse salt flux across thin film composite membrane in osmotic microbial fuel cells. <i>Water Research</i> , 2016, 105, 583-590.	5.3	39
129	Energy consumption of water recovery from wastewater in a submerged forward osmosis system using commercial liquid fertilizer as a draw solute. <i>Separation and Purification Technology</i> , 2017, 174, 432-438.	3.9	39
130	â€NEWâ€-resource recovery from wastewater using bioelectrochemical systems: Moving forward with functions. <i>Frontiers of Environmental Science and Engineering</i> , 2018, 12, 1.	3.3	39
131	Molecular AND logic gate based on bacterial anaerobic respiration. <i>Chemical Communications</i> , 2012, 48, 10174.	2.2	36
132	Platinum Group Metalâ€free Catalysts for Hydrogen Evolution Reaction in Microbial Electrolysis Cells. <i>Chemical Record</i> , 2017, 17, 641-652.	2.9	36
133	Response of enhanced sludge methanogenesis by red mud to temperature: Spectroscopic and electrochemical elucidation of endogenous redox mediators. <i>Water Research</i> , 2018, 143, 240-249.	5.3	36
134	A novel method to characterize bacterial communities affected by carbon source and electricity generation in microbial fuel cells using stable isotope probing and Illumina sequencing. <i>Journal of Microbiological Methods</i> , 2015, 108, 4-11.	0.7	35
135	Ni-Coated Carbon Fiber as an Alternative Cathode Electrode Material to Improve Cost Efficiency of Microbial Fuel Cells. <i>Electrochimica Acta</i> , 2016, 222, 338-346.	2.6	35
136	Passive separation of recovered ammonia from catholyte for reduced energy consumption in microbial electrolysis cells. <i>Chemical Engineering Journal</i> , 2018, 334, 2303-2307.	6.6	35
137	Electricity generation from a floating microbial fuel cell. <i>Bioresource Technology</i> , 2012, 114, 308-313.	4.8	34
138	Bioelectricity inhibits back diffusion from the anolyte into the desalinated stream in microbial desalination cells. <i>Water Research</i> , 2016, 88, 266-273.	5.3	34
139	Efficient Photoelectron Capture by Ni Decoration in <i>Methanosarcina barkeri</i> -CdS Biohybrids for Enhanced Photocatalytic CO ₂ -to-CH ₄ Conversion. <i>IScience</i> , 2020, 23, 101287.	1.9	34
140	Wastewater treatment and microbial communities in an integrated photo-bioelectrochemical system affected by different wastewater algal inocula. <i>Algal Research</i> , 2015, 12, 446-454.	2.4	32
141	Electrodialysis recovery of reverse-fluxed fertilizer draw solute during forward osmosis water treatment. <i>Chemical Engineering Journal</i> , 2017, 330, 550-558.	6.6	32
142	Cathode-enhanced wastewater treatment in bioelectrochemical systems. <i>Npj Clean Water</i> , 2018, 1, .	3.1	32
143	Demystifying terms for understanding bioelectrochemical systems towards sustainable wastewater treatment. <i>Current Opinion in Electrochemistry</i> , 2020, 19, 14-19.	2.5	32
144	Cathodic fluidized granular activated carbon assisted-membrane bioelectrochemical reactor for wastewater treatment. <i>Separation and Purification Technology</i> , 2016, 169, 241-246.	3.9	31

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145	Removal of landfill leachate ultraviolet quenching substances by electricity induced humic acid precipitation and electrooxidation in a membrane electrochemical reactor. <i>Science of the Total Environment</i> , 2019, 689, 571-579.	3.9	31
146	Improving electricity production in tubular microbial fuel cells through optimizing the anolyte flow with spiral spacers. <i>Bioresource Technology</i> , 2013, 134, 251-256.	4.8	30
147	Understanding Ammonium Transport in Bioelectrochemical Systems towards its Recovery. <i>Scientific Reports</i> , 2016, 6, 22547.	1.6	30
148	Computational investigation of the flow field contribution to improve electricity generation in granular activated carbon-assisted microbial fuel cells. <i>Journal of Power Sources</i> , 2016, 333, 83-87.	4.0	30
149	Unravelling and Reconstructing the Nexus of Salinity, Electricity, and Microbial Ecology for Bioelectrochemical Desalination. <i>Environmental Science & Technology</i> , 2017, 51, 12672-12682.	4.6	30
150	Efficient recovery of polyelectrolyte draw solutes in forward osmosis towards sustainable water treatment. <i>Desalination</i> , 2017, 422, 134-141.	4.0	30
151	Experimental Study on the Combustion and Microexplosion of Freely Falling Gelled Unsymmetrical Dimethylhydrazine (UDMH) Fuel Droplets. <i>Energies</i> , 2012, 5, 3126-3136.	1.6	29
152	Investigation of multiphysics in tubular microbial fuel cells by coupled computational fluid dynamics with multi-order Butler-Volmer reactions. <i>Chemical Engineering Journal</i> , 2016, 296, 377-385.	6.6	29
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