Bruce E Logan

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Microbial Fuel Cells: Methodology and Technologyâ€. Environmental Science & Technology, 2006, 40, 5181-5192.	10.0	4,962
2	Exoelectrogenic bacteria that power microbial fuel cells. Nature Reviews Microbiology, 2009, 7, 375-381.	28.6	1,998
3	Electricity Generation Using an Air-Cathode Single Chamber Microbial Fuel Cell in the Presence and Absence of a Proton Exchange Membrane. Environmental Science & Technology, 2004, 38, 4040-4046.	10.0	1,708
4	Electrically conductive bacterial nanowires produced by Shewanella oneidensis strain MR-1 and other microorganisms. Proceedings of the National Academy of Sciences of the United States of America, 2006, 103, 11358-11363.	7.1	1,629
5	Conversion of Wastes into Bioelectricity and Chemicals by Using Microbial Electrochemical Technologies. Science, 2012, 337, 686-690.	12.6	1,515
6	Production of Electricity during Wastewater Treatment Using a Single Chamber Microbial Fuel Cell. Environmental Science & Technology, 2004, 38, 2281-2285.	10.0	1,347
7	Membrane-based processes for sustainable power generation using water. Nature, 2012, 488, 313-319.	27.8	1,242
8	Graphite Fiber Brush Anodes for Increased Power Production in Air-Cathode Microbial Fuel Cells. Environmental Science & Technology, 2007, 41, 3341-3346.	10.0	1,100
9	Microbial Electrolysis Cells for High Yield Hydrogen Gas Production from Organic Matter. Environmental Science & Technology, 2008, 42, 8630-8640.	10.0	1,091
10	Direct Biological Conversion of Electrical Current into Methane by Electromethanogenesis. Environmental Science & Technology, 2009, 43, 3953-3958.	10.0	1,033
11	Electricity-producing bacterial communities in microbial fuel cells. Trends in Microbiology, 2006, 14, 512-518.	7.7	1,031
12	Increased performance of single-chamber microbial fuel cells using an improved cathode structure. Electrochemistry Communications, 2006, 8, 489-494.	4.7	978
13	Electrochemically Assisted Microbial Production of Hydrogen from Acetate. Environmental Science & Technology, 2005, 39, 4317-4320.	10.0	913
14	Production of Electricity from Acetate or Butyrate Using a Single-Chamber Microbial Fuel Cell. Environmental Science & Technology, 2005, 39, 658-662.	10.0	892
15	Electroactive microorganisms in bioelectrochemical systems. Nature Reviews Microbiology, 2019, 17, 307-319.	28.6	890
16	Power Generation in Fed-Batch Microbial Fuel Cells as a Function of Ionic Strength, Temperature, and Reactor Configuration. Environmental Science & Technology, 2005, 39, 5488-5493.	10.0	830
17	Microbial Fuel Cells—Challenges and Applications. Environmental Science & Technology, 2006, 40, 5172-5180.	10.0	804
18	The abundance and significance of a class of large, transparent organic particles in the ocean. Deep-Sea Research Part I: Oceanographic Research Papers, 1993, 40, 1131-1140.	1.4	772

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19	Power Densities Using Different Cathode Catalysts (Pt and CoTMPP) and Polymer Binders (Nafion and) Tj ETQq1 364-369.	1 0.78431 10.0	4 rgBT /Ove 769
20	Hydrogen Production in a Single Chamber Microbial Electrolysis Cell Lacking a Membrane. Environmental Science & Technology, 2008, 42, 3401-3406.	10.0	768
21	Continuous Electricity Generation from Domestic Wastewater and Organic Substrates in a Flat Plate Microbial Fuel Cell. Environmental Science & Technology, 2004, 38, 5809-5814.	10.0	766
22	Electricity generation from swine wastewater using microbial fuel cells. Water Research, 2005, 39, 4961-4968.	11.3	749
23	Scaling up microbial fuel cells and other bioelectrochemical systems. Applied Microbiology and Biotechnology, 2010, 85, 1665-1671.	3.6	726
24	A New Method for Water Desalination Using Microbial Desalination Cells. Environmental Science & Technology, 2009, 43, 7148-7152.	10.0	678
25	Increased Power Generation in a Continuous Flow MFC with Advective Flow through the Porous Anode and Reduced Electrode Spacing. Environmental Science & Technology, 2006, 40, 2426-2432.	10.0	646
26	Ammonia treatment of carbon cloth anodes to enhance power generation of microbial fuel cells. Electrochemistry Communications, 2007, 9, 492-496.	4.7	634
27	Power Generation Using Different Cation, Anion, and Ultrafiltration Membranes in Microbial Fuel Cells. Environmental Science & Technology, 2007, 41, 1004-1009.	10.0	613
28	Sustainable and efficient biohydrogen production via electrohydrogenesis. Proceedings of the National Academy of Sciences of the United States of America, 2007, 104, 18871-18873.	7.1	576
29	Cathode Performance as a Factor in Electricity Generation in Microbial Fuel Cells. Environmental Science & Technology, 2004, 38, 4900-4904.	10.0	570
30	Brewery wastewater treatment using air-cathode microbial fuel cells. Applied Microbiology and Biotechnology, 2008, 78, 873-880.	3.6	545
31	Electricity generation using membrane and salt bridge microbial fuel cells. Water Research, 2005, 39, 1675-1686.	11.3	524
32	Hydrogen and electricity production from a food processing wastewater using fermentation and microbial fuel cell technologies. Water Research, 2005, 39, 4673-4682.	11.3	521
33	Bacterial adhesion to glass and metal-oxide surfaces. Colloids and Surfaces B: Biointerfaces, 2004, 36, 81-90.	5.0	501
34	Use of Carbon Mesh Anodes and the Effect of Different Pretreatment Methods on Power Production in Microbial Fuel Cells. Environmental Science & amp; Technology, 2009, 43, 6870-6874.	10.0	486
35	Biological Hydrogen Production Measured in Batch Anaerobic Respirometers. Environmental Science & Technology, 2002, 36, 2530-2535.	10.0	477
36	Treatment of carbon fiber brush anodes for improving power generation in air–cathode microbial fuel cells. Journal of Power Sources, 2010, 195, 1841-1844.	7.8	466

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37	Electricity generation from cysteine in a microbial fuel cell. Water Research, 2005, 39, 942-952.	11.3	449
38	Evaluation of procedures to acclimate a microbial fuel cell for electricity production. Applied Microbiology and Biotechnology, 2005, 68, 23-30.	3.6	444
39	The Relative Effectiveness of pH Control and Heat Treatment for Enhancing Biohydrogen Gas Production. Environmental Science & Technology, 2003, 37, 5186-5190.	10.0	427
40	Proton exchange membrane and electrode surface areas as factors that affect power generation in microbial fuel cells. Applied Microbiology and Biotechnology, 2006, 70, 162-169.	3.6	423
41	Assessment of Microbial Fuel Cell Configurations and Power Densities. Environmental Science and Technology Letters, 2015, 2, 206-214.	8.7	423
42	Peer Reviewed: Extracting Hydrogen and Electricity from Renewable Resources. Environmental Science & Technology, 2004, 38, 160A-167A.	10.0	417
43	Performance of a pilot-scale continuous flow microbial electrolysis cell fed winery wastewater. Applied Microbiology and Biotechnology, 2011, 89, 2053-2063.	3.6	378
44	Electricity Generation by <i>Rhodopseudomonas palustris</i> DX-1. Environmental Science & Technology, 2008, 42, 4146-4151.	10.0	375
45	Electricity generation and microbial community analysis of alcohol powered microbial fuel cells. Bioresource Technology, 2007, 98, 2568-2577.	9.6	369
46	Effectiveness of domestic wastewater treatment using microbial fuel cells at ambient and mesophilic temperatures. Bioresource Technology, 2010, 101, 469-475.	9.6	363
47	Power generation using an activated carbon and metal mesh cathode in a microbial fuel cell. Electrochemistry Communications, 2009, 11, 2177-2179.	4.7	358
48	Voltage reversal during microbial fuel cell stack operation. Journal of Power Sources, 2007, 167, 11-17.	7.8	348
49	Biohydrogen gas production from food processing and domestic wastewaters. International Journal of Hydrogen Energy, 2005, 30, 1535-1542.	7.1	334
50	The role of particulate carbohydrate exudates in the flocculation of diatom blooms. Deep-Sea Research Part I: Oceanographic Research Papers, 1994, 41, 335-357.	1.4	328
51	Settling Velocities of Fractal Aggregates. Environmental Science & Technology, 1996, 30, 1911-1918.	10.0	302
52	Batteries for Efficient Energy Extraction from a Water Salinity Difference. Nano Letters, 2011, 11, 1810-1813.	9.1	302
53	Production of hydrogen from domestic wastewater using a bioelectrochemically assisted microbial reactor (BEAMR). International Journal of Hydrogen Energy, 2007, 32, 2296-2304.	7.1	299
54	Separator Characteristics for Increasing Performance of Microbial Fuel Cells. Environmental Science & Technology, 2009, 43, 8456-8461.	10.0	291

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55	Electricity generation and treatment of paper recycling wastewater using a microbial fuel cell. Applied Microbiology and Biotechnology, 2008, 80, 349-355.	3.6	285
56	Microbial fuel cell performance with non-Pt cathode catalysts. Journal of Power Sources, 2007, 171, 275-281.	7.8	281
57	Increasing power generation for scaling up single-chamber air cathode microbial fuel cells. Bioresource Technology, 2011, 102, 4468-4473.	9.6	281
58	Inhibition of Biohydrogen Production by Undissociated Acetic and Butyric Acids. Environmental Science & Technology, 2005, 39, 9351-9356.	10.0	273
59	Hydrogen production from cellulose in a two-stage process combining fermentation and electrohydrogenesis. International Journal of Hydrogen Energy, 2009, 34, 6201-6210.	7.1	272
60	The use of stainless steel and nickel alloys as low-cost cathodes in microbial electrolysis cells. Journal of Power Sources, 2009, 190, 271-278.	7.8	271
61	Isolation of the Exoelectrogenic Bacterium <i>Ochrobactrum anthropi</i> YZ-1 by Using a U-Tube Microbial Fuel Cell. Applied and Environmental Microbiology, 2008, 74, 3130-3137.	3.1	268
62	Energy from algae using microbial fuel cells. Biotechnology and Bioengineering, 2009, 103, 1068-1076.	3.3	266
63	Integrated hydrogen production process from cellulose by combining dark fermentation, microbial fuel cells, and a microbial electrolysis cell. Bioresource Technology, 2011, 102, 4137-4143.	9.6	263
64	Fractal dimensions of aggregates determined from steady-state size distributions. Environmental Science & Technology, 1991, 25, 2031-2038.	10.0	262
65	Using microbial desalination cells to reduce water salinity prior to reverse osmosis. Energy and Environmental Science, 2010, 3, 1114.	30.8	262
66	The electric picnic: synergistic requirements for exoelectrogenic microbial communities. Current Opinion in Biotechnology, 2011, 22, 378-385.	6.6	259
67	Hydrogen and methane production from swine wastewater using microbial electrolysis cells. Water Research, 2009, 43, 1480-1488.	11.3	257
68	Scale-up of membrane-free single-chamber microbial fuel cells. Journal of Power Sources, 2008, 179, 274-279.	7.8	255
69	Long-term performance of activated carbon air cathodes with different diffusion layer porosities in microbial fuel cells. Biosensors and Bioelectronics, 2011, 30, 49-55.	10.1	255
70	Analysis of ammonia loss mechanisms in microbial fuel cells treating animal wastewater. Biotechnology and Bioengineering, 2008, 99, 1120-1127.	3.3	252
71	Production of Electricity from Proteins Using a Microbial Fuel Cell. Water Environment Research, 2006, 78, 531-537.	2.7	249
72	Anode microbial communities produced by changing from microbial fuel cell to microbial electrolysis cell operation using two different wastewaters. Bioresource Technology, 2011, 102, 388-394.	9.6	249

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73	Microbial desalination cells for energy production and desalination. Desalination, 2013, 308, 122-130.	8.2	246
74	A Two-Stage Microbial Fuel Cell and Anaerobic Fluidized Bed Membrane Bioreactor (MFC-AFMBR) System for Effective Domestic Wastewater Treatment. Environmental Science & Technology, 2014, 48, 4199-4206.	10.0	244
75	Simultaneous Cellulose Degradation and Electricity Production by <i>Enterobacter cloacae</i> in a Microbial Fuel Cell. Applied and Environmental Microbiology, 2009, 75, 3673-3678.	3.1	238
76	Energy Capture from Thermolytic Solutions in Microbial Reverse-Electrodialysis Cells. Science, 2012, 335, 1474-1477.	12.6	232
77	lonic Resistance and Permselectivity Tradeoffs in Anion Exchange Membranes. ACS Applied Materials & Interfaces, 2013, 5, 10294-10301.	8.0	232
78	High Surface Area Stainless Steel Brushes as Cathodes in Microbial Electrolysis Cells. Environmental Science & Technology, 2009, 43, 2179-2183.	10.0	230
79	Probing Bacterial Electrosteric Interactions Using Atomic Force Microscopy. Environmental Science & Technology, 2000, 34, 3354-3362.	10.0	226
80	Low Energy Desalination Using Battery Electrode Deionization. Environmental Science and Technology Letters, 2017, 4, 444-449.	8.7	224
81	Substrate-Enhanced Microbial Fuel Cells for Improved Remote Power Generation from Sediment-Based Systems. Environmental Science & amp; Technology, 2007, 41, 4053-4058.	10.0	221
82	Electrochemical technologies for wastewater treatment and resource reclamation. Environmental Science: Water Research and Technology, 2016, 2, 800-831.	2.4	220
83	Effect of Molecular Scale Roughness of Glass Beads on Colloidal and Bacterial Deposition. Environmental Science & Technology, 2002, 36, 184-189.	10.0	217
84	Influence of Fluid Velocity and Cell Concentration on the Transport of Motile and Nonmotile Bacteria in Porous Media. Environmental Science & Technology, 1998, 32, 1699-1708.	10.0	215
85	Increased biological hydrogen production with reduced organic loading. Water Research, 2005, 39, 3819-3826.	11.3	214
86	Biological hydrogen production by Clostridium acetobutylicum in an unsaturated flow reactor. Water Research, 2006, 40, 728-734.	11.3	214
87	A monetary comparison of energy recovered from microbial fuel cells and microbial electrolysis cells fed winery or domestic wastewaters. International Journal of Hydrogen Energy, 2010, 35, 8855-8861.	7.1	213
88	Rapid formation and sedimentation of large aggregates is predictable from coagulation rates (half-lives) of transparent exopolymer particles (TEP). Deep-Sea Research Part II: Topical Studies in Oceanography, 1995, 42, 203-214.	1.4	212
89	High hydrogen production from glycerol or glucose by electrohydrogenesis using microbial electrolysis cells. International Journal of Hydrogen Energy, 2009, 34, 5373-5381.	7.1	209
90	COD removal characteristics in air-cathode microbial fuel cells. Bioresource Technology, 2015, 176, 23-31.	9.6	209

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91	Long-term cathode performance and the microbial communities that develop in microbial fuel cells fed different fermentation endproducts. Bioresource Technology, 2011, 102, 361-366.	9.6	206
92	Analysis of polarization methods for elimination of power overshoot in microbial fuel cells. Electrochemistry Communications, 2011, 13, 54-56.	4.7	201
93	Hydrogen production with effluent from an ethanol–H2-coproducing fermentation reactor using a single-chamber microbial electrolysis cell. Biosensors and Bioelectronics, 2009, 24, 3055-3060.	10.1	197
94	Hydrogenase-independent uptake and metabolism of electrons by the archaeon <i>Methanococcus maripaludis</i> . ISME Journal, 2014, 8, 1673-1681.	9.8	196
95	A Review of Chlorate- and Perchlorate-Respiring Microorganisms. Bioremediation Journal, 1998, 2, 69-79.	2.0	195
96	Comparison of Electrode Reduction Activities of <i>Geobacter sulfurreducens</i> and an Enriched Consortium in an Air-Cathode Microbial Fuel Cell. Applied and Environmental Microbiology, 2008, 74, 7348-7355.	3.1	192
97	Phosphate recovery as struvite within a single chamber microbial electrolysis cell. Bioresource Technology, 2012, 107, 110-115.	9.6	192
98	Electricity Production from Steam-Exploded Corn Stover Biomass. Energy & Fuels, 2006, 20, 1716-1721.	5.1	190
99	Power generation using an activated carbon fiber felt cathode in an upflow microbial fuel cell. Journal of Power Sources, 2010, 195, 1130-1135.	7.8	190
100	Convergent development of anodic bacterial communities in microbial fuel cells. ISME Journal, 2012, 6, 2002-2013.	9.8	190
101	Contributions of Bacterial Surface Polymers, Electrostatics, and Cell Elasticity to the Shape of AFM Force Curves. Langmuir, 2002, 18, 5256-5262.	3.5	187
102	Source of methane and methods to control its formation in single chamber microbial electrolysis cells. International Journal of Hydrogen Energy, 2009, 34, 3653-3658.	7.1	187
103	Microbial Electrodialysis Cell for Simultaneous Water Desalination and Hydrogen Gas Production. Environmental Science & Technology, 2010, 44, 9578-9583.	10.0	185
104	Enhanced Activated Carbon Cathode Performance for Microbial Fuel Cell by Blending Carbon Black. Environmental Science & Technology, 2014, 48, 2075-2081.	10.0	185
105	Fractal geometry of marine snow and other biological aggregates. Limnology and Oceanography, 1990, 35, 130-136.	3.1	184
106	A Novel Anaerobic Electrochemical Membrane Bioreactor (AnEMBR) with Conductive Hollow-fiber Membrane for Treatment of Low-Organic Strength Solutions. Environmental Science & Technology, 2014, 48, 12833-12841.	10.0	183
107	Hydrogen Production by <i>Geobacter</i> Species and a Mixed Consortium in a Microbial Electrolysis Cell. Applied and Environmental Microbiology, 2009, 75, 7579-7587.	3.1	181
108	Hydrogen production with nickel powder cathode catalysts in microbial electrolysis cells. International Journal of Hydrogen Energy, 2010, 35, 428-437.	7.1	180

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109	Isolation of the exoelectrogenic denitrifying bacterium Comamonas denitrificans based on dilution to extinction. Applied Microbiology and Biotechnology, 2010, 85, 1575-1587.	3.6	179
110	Influence of Chemical and Physical Properties of Activated Carbon Powders on Oxygen Reduction and Microbial Fuel Cell Performance. Environmental Science & Technology, 2013, 47, 6704-6710.	10.0	178
111	Optimal Set Anode Potentials Vary in Bioelectrochemical Systems. Environmental Science & Technology, 2010, 44, 6036-6041.	10.0	177
112	Essential Data and Techniques for Conducting Microbial Fuel Cell and other Types of Bioelectrochemical System Experiments. ChemSusChem, 2012, 5, 988-994.	6.8	177
113	Biological hydrogen production using a membrane bioreactor. Biotechnology and Bioengineering, 2004, 87, 119-127.	3.3	175
114	Temporal-Spatial Changes in Viabilities and Electrochemical Properties of Anode Biofilms. Environmental Science & Technology, 2015, 49, 5227-5235.	10.0	175
115	A logical data representation framework for electricity-driven bioproduction processes. Biotechnology Advances, 2015, 33, 736-744.	11.7	174
116	Emerging electrochemical and membrane-based systems to convert low-grade heat to electricity. Energy and Environmental Science, 2018, 11, 276-285.	30.8	172
117	Microbial Community Composition Is Unaffected by Anode Potential. Environmental Science & Technology, 2014, 48, 1352-1358.	10.0	171
118	Observation of Changes in Bacterial Cell Morphology Using Tapping Mode Atomic Force Microscopy. Langmuir, 2000, 16, 4563-4572.	3.5	167
119	Series Assembly of Microbial Desalination Cells Containing Stacked Electrodialysis Cells for Partial or Complete Seawater Desalination. Environmental Science & amp; Technology, 2011, 45, 5840-5845.	10.0	167
120	Adaptation to high current using low external resistances eliminates power overshoot in microbial fuel cells. Biosensors and Bioelectronics, 2011, 28, 71-76.	10.1	166
121	Enrichment of Microbial Electrolysis Cell Biocathodes from Sediment Microbial Fuel Cell Bioanodes. Applied and Environmental Microbiology, 2012, 78, 5212-5219.	3.1	165
122	A thermally regenerative ammonia-based battery for efficient harvesting of low-grade thermal energy as electrical power. Energy and Environmental Science, 2015, 8, 343-349.	30.8	165
123	High hydrogen production rate of microbial electrolysis cell (MEC) with reduced electrode spacing. Bioresource Technology, 2011, 102, 3571-3574.	9.6	164
124	Specific ion effects on membrane potential and the permselectivity of ion exchange membranes. Physical Chemistry Chemical Physics, 2014, 16, 21673-21681.	2.8	160
125	Hydrogen production from inexhaustible supplies of fresh and salt water using microbial reverse-electrodialysis electrolysis cells. Proceedings of the National Academy of Sciences of the United States of America, 2011, 108, 16176-16181.	7.1	159
126	Simultaneous water desalination and electricity generation in a microbial desalination cell with electrolyte recirculation for pH control. Bioresource Technology, 2012, 106, 89-94.	9.6	159

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127	Tubular Membrane Cathodes for Scalable Power Generation in Microbial Fuel Cells. Environmental Science & Technology, 2007, 41, 3347-3353.	10.0	156
128	Microbial Fuel Cell Cathodes With Poly(dimethylsiloxane) Diffusion Layers Constructed around Stainless Steel Mesh Current Collectors. Environmental Science & Technology, 2010, 44, 1490-1495.	10.0	155
129	Peer Reviewed: Assessing the outlook for perchlorate remediation. Environmental Science & Technology, 2001, 35, 482A-487A.	10.0	154
130	Microbial Degradation of Perchlorate: Principles and Applications. Environmental Engineering Science, 2003, 20, 405-422.	1.6	151
131	The use and optimization of stainless steel mesh cathodes in microbial electrolysis cells. International Journal of Hydrogen Energy, 2010, 35, 12020-12028.	7.1	151
132	Particle size spectra between 1 μm and 1 cm at Monterey Bay determined using multiple instruments. Deep-Sea Research Part I: Oceanographic Research Papers, 1997, 44, 1739-1767.	1.4	149
133	Bioaugmentation for Electricity Generation from Corn Stover Biomass Using Microbial Fuel Cells. Environmental Science & Technology, 2009, 43, 6088-6093.	10.0	149
134	Syntrophic interactions drive the hydrogen production from glucose at low temperature in microbial electrolysis cells. Bioresource Technology, 2012, 124, 68-76.	9.6	149
135	Enhanced transport of bacteria in porous media by sediment-phase and aqueous-phase natural organic matter. Water Research, 1996, 30, 923-931.	11.3	148
136	Inhibition of biohydrogen production by ammonia. Water Research, 2006, 40, 1167-1172.	11.3	147
137	Enhanced hydrogen and 1,3â€propanediol production from glycerol by fermentation using mixed cultures. Biotechnology and Bioengineering, 2009, 104, 1098-1106.	3.3	147
138	Power production in MFCs inoculated with <i>Shewanella oneidensis</i> MRâ€1 or mixed cultures. Biotechnology and Bioengineering, 2010, 105, 489-498.	3.3	147
139	Permeability of Fractal Aggregates. Water Research, 2001, 35, 3373-3380.	11.3	146
140	Effect of Set Potential on Hexavalent Chromium Reduction and Electricity Generation from Biocathode Microbial Fuel Cells. Environmental Science & Technology, 2011, 45, 5025-5031.	10.0	146
141	Single-Step Fabrication Using a Phase Inversion Method of Poly(vinylidene fluoride) (PVDF) Activated Carbon Air Cathodes for Microbial Fuel Cells. Environmental Science and Technology Letters, 2014, 1, 416-420.	8.7	145
142	Capturing power at higher voltages from arrays of microbial fuel cells without voltage reversal. Energy and Environmental Science, 2011, 4, 4662.	30.8	143
143	Longâ€Term Performance of Chemically and Physically Modified Activated Carbons in Air Cathodes of Microbial Fuel Cells. ChemElectroChem, 2014, 1, 1859-1866.	3.4	143
144	A Hybrid Microbial Fuel Cell Membrane Bioreactor with a Conductive Ultrafiltration Membrane Biocathode for Wastewater Treatment. Environmental Science & Technology, 2013, 47, 11821-11828.	10.0	142

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145	Adaptively Evolving Bacterial Communities for Complete and Selective Reduction of Cr(VI), Cu(II), and Cd(II) in Biocathode Bioelectrochemical Systems. Environmental Science & Technology, 2015, 49, 9914-9924.	10.0	140
146	Fractal dimensions of aggregates formed in different fluid mechanical environments. Water Research, 1995, 29, 443-453.	11.3	139
147	Electricity generation from model organic wastewater in a cassette-electrode microbial fuel cell. Applied Microbiology and Biotechnology, 2008, 80, 325-30.	3.6	137
148	Enhanced start-up of anaerobic facultatively autotrophic biocathodes in bioelectrochemical systems. Journal of Biotechnology, 2013, 168, 478-485.	3.8	137
149	Molecular Size Distributions of Dissolved Organic Matter. Journal of Environmental Engineering, ASCE, 1990, 116, 1046-1062.	1.4	134
150	Kinetics of Perchlorate- and Chlorate-Respiring Bacteria. Applied and Environmental Microbiology, 2001, 67, 2499-2506.	3.1	134
151	Ion Exchange Membrane Cathodes for Scalable Microbial Fuel Cells. Environmental Science & Technology, 2008, 42, 6967-6972.	10.0	134
152	The use of nylon and glass fiber filter separators with different pore sizes in air-cathode single-chamber microbial fuel cells. Energy and Environmental Science, 2010, 3, 659.	30.8	134
153	Wastewater treatment, energy recovery and desalination using a forward osmosis membrane in an air-cathode microbial osmotic fuel cell. Journal of Membrane Science, 2013, 428, 116-122.	8.2	131
154	<i>Methanobacterium</i> Dominates Biocathodic Archaeal Communities in Methanogenic Microbial Electrolysis Cells. ACS Sustainable Chemistry and Engineering, 2015, 3, 1668-1676.	6.7	130
155	Removal of Odors from Swine Wastewater by Using Microbial Fuel Cells. Applied and Environmental Microbiology, 2008, 74, 2540-2543.	3.1	129
156	Electrochemical struvite precipitation from digestate with a fluidized bed cathode microbial electrolysis cell. Water Research, 2014, 54, 297-306.	11.3	129
157	Impact of electrode configurations on retention time and domestic wastewater treatment efficiency using microbial fuel cells. Water Research, 2015, 80, 41-46.	11.3	129
158	Advanced Materials, Technologies, and Complex Systems Analyses: Emerging Opportunities to Enhance Urban Water Security. Environmental Science & Technology, 2017, 51, 10274-10281.	10.0	129
159	Variation of power generation at different buffer types and conductivities in single chamber microbial fuel cells. Biosensors and Bioelectronics, 2010, 25, 1155-1159.	10.1	128
160	Evaluating a multi-panel air cathode through electrochemical and biotic tests. Water Research, 2019, 148, 51-59.	11.3	128
161	Removal of Headspace CO2Increases Biological Hydrogen Production. Environmental Science & amp; Technology, 2005, 39, 4416-4420.	10.0	127
162	Comparison of Nonprecious Metal Cathode Materials for Methane Production by Electromethanogenesis. ACS Sustainable Chemistry and Engineering, 2014, 2, 910-917.	6.7	127

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163	Electricity from methane by reversing methanogenesis. Nature Communications, 2017, 8, 15419.	12.8	127
164	Collision Frequencies of Fractal Aggregates with Small Particles by Differential Sedimentation. Environmental Science & Technology, 1997, 31, 1229-1236.	10.0	126
165	Multi-electrode continuous flow microbial electrolysis cell for biogas production from acetate. International Journal of Hydrogen Energy, 2010, 35, 8848-8854.	7.1	126
166	Bacterial transport in laboratory columns and filters: Influence of ionic strength and pH on collision efficiency. Water Research, 1995, 29, 1673-1680.	11.3	125
167	Vertically Grown Multiwalled Carbon Nanotube Anode and Nickel Silicide Integrated High Performance Microsized (1.25 μL) Microbial Fuel Cell. Nano Letters, 2012, 12, 791-795.	9.1	125
168	A method for high throughput bioelectrochemical research based on small scale microbial electrolysis cells. Biosensors and Bioelectronics, 2011, 26, 4526-4531.	10.1	120
169	Analysis of carbon fiber brush loading in anodes on startup and performance of microbial fuel cells. Journal of Power Sources, 2011, 196, 9213-9219.	7.8	119
170	Macroscopic and Nanoscale Measurements of the Adhesion of Bacteria with Varying Outer Layer Surface Composition. Langmuir, 2003, 19, 2366-2371.	3.5	118
171	Examination of microbial fuel cell start-up times with domestic wastewater and additional amendments. Bioresource Technology, 2011, 102, 7301-7306.	9.6	117
172	Change in microbial communities in acetate- and glucose-fed microbial fuel cells in the presence of light. Biosensors and Bioelectronics, 2009, 25, 105-111.	10.1	116
173	Electricity generation of single-chamber microbial fuel cells at low temperatures. Biosensors and Bioelectronics, 2011, 26, 1913-1917.	10.1	115
174	Performance of Gd-doped Ti-based Sb-SnO2 anodes for electrochemical destruction of phenol. Chemosphere, 2008, 70, 1629-1636.	8.2	114
175	The presence of hydrogenotrophic methanogens in the inoculum improves methane gas production in microbial electrolysis cells. Frontiers in Microbiology, 2014, 5, 778.	3.5	113
176	Advantages to microbes of growth in permeable aggregates in marine systems1. Limnology and Oceanography, 1987, 32, 1034-1048.	3.1	112
177	Effects of applied voltages and dissolved oxygen on sustained power generation by microbial fuel cells. Water Science and Technology, 2009, 60, 1311-1317.	2.5	112
178	Microbial Reverse Electrodialysis Cells for Synergistically Enhanced Power Production. Environmental Science & Technology, 2011, 45, 5834-5839.	10.0	112
179	Reductive dechlorination and mineralization of pentachlorophenol in biocathode microbial fuel cells. Bioresource Technology, 2012, 111, 167-174.	9.6	112
180	Evaluation of low cost cathode materials for treatment of industrial and food processing wastewater using microbial electrolysis cells. International Journal of Hydrogen Energy, 2013, 38, 1859-1865.	7.1	111

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181	Controlling the occurrence of power overshoot by adapting microbial fuel cells to high anode potentials. Bioelectrochemistry, 2013, 90, 30-35.	4.6	111
182	A multi-electrode continuous flow microbial fuel cell with separator electrode assembly design. Applied Microbiology and Biotechnology, 2012, 93, 2241-2248.	3.6	110
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