

# Bruce E Logan

## List of Publications by Citations

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523  
papers

67,688  
citations

130  
h-index

245  
g-index

569  
ext. papers

73,738  
ext. citations

9.1  
avg, IF

8.51  
L-index

#	Paper	IF	Citations
523	Microbial fuel cells: methodology and technology. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 5181-92	10.3	4214
522	Exoelectrogenic bacteria that power microbial fuel cells. <i>Nature Reviews Microbiology</i> , <b>2009</b> , 7, 375-81	22.2	1664
521	Electricity generation using an air-cathode single chamber microbial fuel cell in the presence and absence of a proton exchange membrane. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 4040-6	10.3	1514
520	Electrically conductive bacterial nanowires produced by <i>Shewanella oneidensis</i> strain MR-1 and other microorganisms. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2006</b> , 103, 11358-63	11.5	1359
519	Conversion of wastes into bioelectricity and chemicals by using microbial electrochemical technologies. <i>Science</i> , <b>2012</b> , 337, 686-90	33.3	1238
518	Production of electricity during wastewater treatment using a single chamber microbial fuel cell. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 2281-5	10.3	1162
517	Membrane-based processes for sustainable power generation using water. <i>Nature</i> , <b>2012</b> , 488, 313-9	50.4	969
516	Graphite fiber brush anodes for increased power production in air-cathode microbial fuel cells. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 3341-6	10.3	952
515	Microbial electrolysis cells for high yield hydrogen gas production from organic matter. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 8630-40	10.3	932
514	Electricity-producing bacterial communities in microbial fuel cells. <i>Trends in Microbiology</i> , <b>2006</b> , 14, 512-8	2.4	897
513	Increased performance of single-chamber microbial fuel cells using an improved cathode structure. <i>Electrochemistry Communications</i> , <b>2006</b> , 8, 489-494	5.1	877
512	Direct biological conversion of electrical current into methane by electromethanogenesis. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 3953-8	10.3	856
511	Electrochemically assisted microbial production of hydrogen from acetate. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 4317-20	10.3	793
510	Production of electricity from acetate or butyrate using a single-chamber microbial fuel cell. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 658-62	10.3	778
509	Power generation in fed-batch microbial fuel cells as a function of ionic strength, temperature, and reactor configuration. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 5488-93	10.3	737
508	Microbial Fuel Cells—Challenges and Applications. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 5172-5180	10.3	682
507	Power Densities Using Different Cathode Catalysts (Pt and CoTMPP) and Polymer Binders (Nafion and PTFE) in Single Chamber Microbial Fuel Cells. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 364-369	10.3	681

506	Hydrogen production in a single chamber microbial electrolysis cell lacking a membrane. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 3401-6	10.3	658
505	Continuous electricity generation from domestic wastewater and organic substrates in a flat plate microbial fuel cell. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 5809-14	10.3	643
504	Electricity generation from swine wastewater using microbial fuel cells. <i>Water Research</i> , <b>2005</b> , 39, 4961-82.5	8.2.5	636
503	Scaling up microbial fuel cells and other bioelectrochemical systems. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 85, 1665-71	5.7	635
502	The abundance and significance of a class of large, transparent organic particles in the ocean. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>1993</b> , 40, 1131-1140	2.5	581
501	A new method for water desalination using microbial desalination cells. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 7148-52	10.3	578
500	Increased power generation in a continuous flow MFC with advective flow through the porous anode and reduced electrode spacing. <i>Environmental Science &amp; Technology</i> , <b>2006</b> , 40, 2426-32	10.3	578
499	Power generation using different cation, anion, and ultrafiltration membranes in microbial fuel cells. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 1004-9	10.3	548
498	Ammonia treatment of carbon cloth anodes to enhance power generation of microbial fuel cells. <i>Electrochemistry Communications</i> , <b>2007</b> , 9, 492-496	5.1	540
497	Sustainable and efficient biohydrogen production via electrohydrogenesis. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2007</b> , 104, 18871-3	11.5	506
496	Cathode performance as a factor in electricity generation in microbial fuel cells. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 4900-4	10.3	497
495	Electroactive microorganisms in bioelectrochemical systems. <i>Nature Reviews Microbiology</i> , <b>2019</b> , 17, 307-319	22.2	456
494	Brewery wastewater treatment using air-cathode microbial fuel cells. <i>Applied Microbiology and Biotechnology</i> , <b>2008</b> , 78, 873-80	5.7	453
493	Bacterial adhesion to glass and metal-oxide surfaces. <i>Colloids and Surfaces B: Biointerfaces</i> , <b>2004</b> , 36, 81-90	6	452
492	Hydrogen and electricity production from a food processing wastewater using fermentation and microbial fuel cell technologies. <i>Water Research</i> , <b>2005</b> , 39, 4673-82	12.5	451
491	Electricity generation using membrane and salt bridge microbial fuel cells. <i>Water Research</i> , <b>2005</b> , 39, 1675-86	12.5	434
490	Use of carbon mesh anodes and the effect of different pretreatment methods on power production in microbial fuel cells. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 6870-4	10.3	424
489	Biological hydrogen production measured in batch anaerobic respirometers. <i>Environmental Science &amp; Technology</i> , <b>2002</b> , 36, 2530-5	10.3	421

488	Electricity generation from cysteine in a microbial fuel cell. <i>Water Research</i> , <b>2005</b> , 39, 942-52	12.5	391
487	Treatment of carbon fiber brush anodes for improving power generation in air-cathode microbial fuel cells. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 1841-1844	8.9	390
486	The relative effectiveness of pH control and heat treatment for enhancing biohydrogen gas production. <i>Environmental Science &amp; Technology</i> , <b>2003</b> , 37, 5186-90	10.3	390
485	Evaluation of procedures to acclimate a microbial fuel cell for electricity production. <i>Applied Microbiology and Biotechnology</i> , <b>2005</b> , 68, 23-30	5.7	377
484	Extracting hydrogen and electricity from renewable resources. <i>Environmental Science &amp; Technology</i> , <b>2004</b> , 38, 160A-167A	10.3	370
483	Proton exchange membrane and electrode surface areas as factors that affect power generation in microbial fuel cells. <i>Applied Microbiology and Biotechnology</i> , <b>2006</b> , 70, 162-9	5.7	356
482	Assessment of Microbial Fuel Cell Configurations and Power Densities. <i>Environmental Science and Technology Letters</i> , <b>2015</b> , 2, 206-214	11	348
481	Power generation using an activated carbon and metal mesh cathode in a microbial fuel cell. <i>Electrochemistry Communications</i> , <b>2009</b> , 11, 2177-2179	5.1	324
480	Electricity generation by <i>Rhodospseudomonas palustris</i> DX-1. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 4146-51	10.3	323
479	Performance of a pilot-scale continuous flow microbial electrolysis cell fed winery wastewater. <i>Applied Microbiology and Biotechnology</i> , <b>2011</b> , 89, 2053-63	5.7	317
478	Electricity generation and microbial community analysis of alcohol powered microbial fuel cells. <i>Bioresource Technology</i> , <b>2007</b> , 98, 2568-77	11	317
477	Biohydrogen gas production from food processing and domestic wastewaters. <i>International Journal of Hydrogen Energy</i> , <b>2005</b> , 30, 1535-1542	6.7	314
476	Effectiveness of domestic wastewater treatment using microbial fuel cells at ambient and mesophilic temperatures. <i>Bioresource Technology</i> , <b>2010</b> , 101, 469-75	11	301
475	Voltage reversal during microbial fuel cell stack operation. <i>Journal of Power Sources</i> , <b>2007</b> , 167, 11-17	8.9	297
474	Batteries for efficient energy extraction from a water salinity difference. <i>Nano Letters</i> , <b>2011</b> , 11, 1810-3	11.5	264
473	Production of hydrogen from domestic wastewater using a bioelectrochemically assisted microbial reactor (BEAMR). <i>International Journal of Hydrogen Energy</i> , <b>2007</b> , 32, 2296-2304	6.7	263
472	Separator characteristics for increasing performance of microbial fuel cells. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 8456-61	10.3	255
471	Settling Velocities of Fractal Aggregates. <i>Environmental Science &amp; Technology</i> , <b>1996</b> , 30, 1911-1918	10.3	255

470	Microbial fuel cell performance with non-Pt cathode catalysts. <i>Journal of Power Sources</i> , <b>2007</b> , 171, 275-281	2.5	249
469	The role of particulate carbohydrate exudates in the flocculation of diatom blooms. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>1994</b> , 41, 335-357	2.5	246
468	Electricity generation and treatment of paper recycling wastewater using a microbial fuel cell. <i>Applied Microbiology and Biotechnology</i> , <b>2008</b> , 80, 349-55	5.7	244
467	Increasing power generation for scaling up single-chamber air cathode microbial fuel cells. <i>Bioresource Technology</i> , <b>2011</b> , 102, 4468-73	11	241
466	Hydrogen production from cellulose in a two-stage process combining fermentation and electrohydrogenesis. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 6201-6210	6.7	241
465	The use of stainless steel and nickel alloys as low-cost cathodes in microbial electrolysis cells. <i>Journal of Power Sources</i> , <b>2009</b> , 190, 271-278	8.9	237
464	Fractal dimensions of aggregates determined from steady-state size distributions. <i>Environmental Science &amp; Technology</i> , <b>1991</b> , 25, 2031-2038	10.3	235
463	Integrated hydrogen production process from cellulose by combining dark fermentation, microbial fuel cells, and a microbial electrolysis cell. <i>Bioresource Technology</i> , <b>2011</b> , 102, 4137-43	11	234
462	Scale-up of membrane-free single-chamber microbial fuel cells. <i>Journal of Power Sources</i> , <b>2008</b> , 179, 2748-279	4.9	230
461	Energy from algae using microbial fuel cells. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 103, 1068-76	4.9	227
460	Hydrogen and methane production from swine wastewater using microbial electrolysis cells. <i>Water Research</i> , <b>2009</b> , 43, 1480-8	12.5	226
459	Isolation of the exoelectrogenic bacterium <i>Ochrobactrum anthropi</i> YZ-1 by using a U-tube microbial fuel cell. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 3130-7	4.8	225
458	The electric picnic: synergistic requirements for exoelectrogenic microbial communities. <i>Current Opinion in Biotechnology</i> , <b>2011</b> , 22, 378-85	11.4	223
457	Inhibition of biohydrogen production by undissociated acetic and butyric acids. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 9351-6	10.3	220
456	Probing Bacterial Electrosteric Interactions Using Atomic Force Microscopy. <i>Environmental Science &amp; Technology</i> , <b>2000</b> , 34, 3354-3362	10.3	215
455	Long-term performance of activated carbon air cathodes with different diffusion layer porosities in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 30, 49-55	11.8	214
454	Analysis of ammonia loss mechanisms in microbial fuel cells treating animal wastewater. <i>Biotechnology and Bioengineering</i> , <b>2008</b> , 99, 1120-7	4.9	214
453	Using microbial desalination cells to reduce water salinity prior to reverse osmosis. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 1114	35.4	212

452	A two-stage microbial fuel cell and anaerobic fluidized bed membrane bioreactor (MFC-AFMBR) system for effective domestic wastewater treatment. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 4199-206	10.3	207
451	Influence of Fluid Velocity and Cell Concentration on the Transport of Motile and Nonmotile Bacteria in Porous Media. <i>Environmental Science &amp; Technology</i> , <b>1998</b> , 32, 1699-1708	10.3	206
450	Energy capture from thermolytic solutions in microbial reverse-electrodialysis cells. <i>Science</i> , <b>2012</b> , 335, 1474-7	33.3	202
449	Production of electricity from proteins using a microbial fuel cell. <i>Water Environment Research</i> , <b>2006</b> , 78, 531-7	2.8	202
448	Effect of molecular scale roughness of glass beads on colloidal and bacterial deposition. <i>Environmental Science &amp; Technology</i> , <b>2002</b> , 36, 184-9	10.3	202
447	Anode microbial communities produced by changing from microbial fuel cell to microbial electrolysis cell operation using two different wastewaters. <i>Bioresource Technology</i> , <b>2011</b> , 102, 388-94	11	200
446	High surface area stainless steel brushes as cathodes in microbial electrolysis cells. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 2179-83	10.3	198
445	Substrate-enhanced microbial fuel cells for improved remote power generation from sediment-based systems. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 4053-8	10.3	198
444	Microbial desalination cells for energy production and desalination. <i>Desalination</i> , <b>2013</b> , 308, 122-130	10.3	191
443	Simultaneous cellulose degradation and electricity production by <i>Enterobacter cloacae</i> in a microbial fuel cell. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 3673-8	4.8	190
442	Biological hydrogen production by <i>Clostridium acetobutylicum</i> in an unsaturated flow reactor. <i>Water Research</i> , <b>2006</b> , 40, 728-34	12.5	190
441	Increased biological hydrogen production with reduced organic loading. <i>Water Research</i> , <b>2005</b> , 39, 3819-26	12.5	187
440	A monetary comparison of energy recovered from microbial fuel cells and microbial electrolysis cells fed winery or domestic wastewaters. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 8855-8861	6.7	183
439	High hydrogen production from glycerol or glucose by electrohydrogenesis using microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 5373-5381	6.7	181
438	Long-term cathode performance and the microbial communities that develop in microbial fuel cells fed different fermentation endproducts. <i>Bioresource Technology</i> , <b>2011</b> , 102, 361-6	11	177
437	Contributions of Bacterial Surface Polymers, Electrostatics, and Cell Elasticity to the Shape of AFM Force Curves. <i>Langmuir</i> , <b>2002</b> , 18, 5256-5262	4	176
436	Analysis of polarization methods for elimination of power overshoot in microbial fuel cells. <i>Electrochemistry Communications</i> , <b>2011</b> , 13, 54-56	5.1	174
435	Ionic resistance and permselectivity tradeoffs in anion exchange membranes. <i>ACS Applied Materials &amp; Interfaces</i> , <b>2013</b> , 5, 10294-301	9.5	172

434	Hydrogen production with effluent from an ethanol-H <sub>2</sub> -coproducing fermentation reactor using a single-chamber microbial electrolysis cell. <i>Biosensors and Bioelectronics</i> , <b>2009</b> , 24, 3055-60	11.8	171
433	A Review of Chlorate- and Perchlorate-Respiring Microorganisms. <i>Bioremediation Journal</i> , <b>1998</b> , 2, 69-79	2.3	170
432	Phosphate recovery as struvite within a single chamber microbial electrolysis cell. <i>Bioresource Technology</i> , <b>2012</b> , 107, 110-5	11	168
431	Source of methane and methods to control its formation in single chamber microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , <b>2009</b> , 34, 3653-3658	6.7	168
430	Power generation using an activated carbon fiber felt cathode in an upflow microbial fuel cell. <i>Journal of Power Sources</i> , <b>2010</b> , 195, 1130-1135	8.9	168
429	Low Energy Desalination Using Battery Electrode Deionization. <i>Environmental Science and Technology Letters</i> , <b>2017</b> , 4, 444-449	11	166
428	Comparison of electrode reduction activities of <i>Geobacter sulfurreducens</i> and an enriched consortium in an air-cathode microbial fuel cell. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 7348-55	4.8	165
427	Influence of chemical and physical properties of activated carbon powders on oxygen reduction and microbial fuel cell performance. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 6704-10	10.3	164
426	COD removal characteristics in air-cathode microbial fuel cells. <i>Bioresource Technology</i> , <b>2015</b> , 176, 23-31	11	162
425	Enhanced activated carbon cathode performance for microbial fuel cell by blending carbon black. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 2075-81	10.3	161
424	Microbial electro dialysis cell for simultaneous water desalination and hydrogen gas production. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 9578-83	10.3	159
423	Electricity Production from Steam-Exploded Corn Stover Biomass. <i>Energy &amp; Fuels</i> , <b>2006</b> , 20, 1716-1721	11	159
422	<b>2007</b> ,		158
421	Rapid formation and sedimentation of large aggregates is predictable from coagulation rates (half-lives) of transparent exopolymer particles (TEP). <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , <b>1995</b> , 42, 203-214	2.3	156
420	Hydrogenase-independent uptake and metabolism of electrons by the archaeon <i>Methanococcus maripaludis</i> . <i>ISME Journal</i> , <b>2014</b> , 8, 1673-81	11.9	155
419	Hydrogen production by <i>geobacter</i> species and a mixed consortium in a microbial electrolysis cell. <i>Applied and Environmental Microbiology</i> , <b>2009</b> , 75, 7579-87	4.8	155
418	Biological hydrogen production using a membrane bioreactor. <i>Biotechnology and Bioengineering</i> , <b>2004</b> , 87, 119-27	4.9	155
417	Observation of Changes in Bacterial Cell Morphology Using Tapping Mode Atomic Force Microscopy. <i>Langmuir</i> , <b>2000</b> , 16, 4563-4572	4	154

4 <sup>16</sup>	Hydrogen production with nickel powder cathode catalysts in microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 428-437	6.7	153
4 <sup>15</sup>	A novel anaerobic electrochemical membrane bioreactor (AnEMBR) with conductive hollow-fiber membrane for treatment of low-organic strength solutions. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 12833-41	10.3	151
4 <sup>14</sup>	Optimal set anode potentials vary in bioelectrochemical systems. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 6036-41	10.3	150
4 <sup>13</sup>	Enrichment of microbial electrolysis cell biocathodes from sediment microbial fuel cell bioanodes. <i>Applied and Environmental Microbiology</i> , <b>2012</b> , 78, 5212-9	4.8	147
4 <sup>12</sup>	Essential data and techniques for conducting microbial fuel cell and other types of bioelectrochemical system experiments. <i>ChemSusChem</i> , <b>2012</b> , 5, 988-94	8.3	147
4 <sup>11</sup>	Isolation of the exoelectrogenic denitrifying bacterium <i>Comamonas denitrificans</i> based on dilution to extinction. <i>Applied Microbiology and Biotechnology</i> , <b>2010</b> , 85, 1575-87	5.7	147
4 <sup>10</sup>	Series assembly of microbial desalination cells containing stacked electro dialysis cells for partial or complete seawater desalination. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 5840-5	10.3	146
4 <sup>09</sup>	A logical data representation framework for electricity-driven bioproduction processes. <i>Biotechnology Advances</i> , <b>2015</b> , 33, 736-44	17.8	145
4 <sup>08</sup>	Tubular membrane cathodes for scalable power generation in microbial fuel cells. <i>Environmental Science &amp; Technology</i> , <b>2007</b> , 41, 3347-53	10.3	144
4 <sup>07</sup>	Electrochemical technologies for wastewater treatment and resource reclamation. <i>Environmental Science: Water Research and Technology</i> , <b>2016</b> , 2, 800-831	4.2	144
4 <sup>06</sup>	High hydrogen production rate of microbial electrolysis cell (MEC) with reduced electrode spacing. <i>Bioresource Technology</i> , <b>2011</b> , 102, 3571-4	11	142
4 <sup>05</sup>	Convergent development of anodic bacterial communities in microbial fuel cells. <i>ISME Journal</i> , <b>2012</b> , 6, 2002-13	11.9	142
4 <sup>04</sup>	Microbial community composition is unaffected by anode potential. <i>Environmental Science &amp; Technology</i> , <b>2014</b> , 48, 1352-8	10.3	141
4 <sup>03</sup>	Microbial fuel cell cathodes with poly(dimethylsiloxane) diffusion layers constructed around stainless steel mesh current collectors. <i>Environmental Science &amp; Technology</i> , <b>2010</b> , 44, 1490-5	10.3	140
4 <sup>02</sup>	Assessing the outlook for perchlorate remediation. <i>Environmental Science &amp; Technology</i> , <b>2001</b> , 35, 482A-487A	10.3	140
4 <sup>01</sup>	Fractal geometry of marine snow and other biological aggregates. <i>Limnology and Oceanography</i> , <b>1990</b> , 35, 130-136	4.8	140
4 <sup>00</sup>	Adaptation to high current using low external resistances eliminates power overshoot in microbial fuel cells. <i>Biosensors and Bioelectronics</i> , <b>2011</b> , 28, 71-6	11.8	139
3 <sup>99</sup>	Enhanced transport of bacteria in porous media by sediment-phase and aqueous-phase natural organic matter. <i>Water Research</i> , <b>1996</b> , 30, 923-931	12.5	137



398	Enhanced hydrogen and 1,3-propanediol production from glycerol by fermentation using mixed cultures. <i>Biotechnology and Bioengineering</i> , <b>2009</b> , 104, 1098-106	4.9	136
397	Hydrogen production from inexhaustible supplies of fresh and salt water using microbial reverse-electrodialysis electrolysis cells. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , <b>2011</b> , 108, 16176-81	11.5	131
396	Permeability of fractal aggregates. <i>Water Research</i> , <b>2001</b> , 35, 3373-80	12.5	131
395	Temporal-spatial changes in viabilities and electrochemical properties of anode biofilms. <i>Environmental Science &amp; Technology</i> , <b>2015</b> , 49, 5227-35	10.3	130
394	Capturing power at higher voltages from arrays of microbial fuel cells without voltage reversal. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 4662	35.4	130
393	Simultaneous water desalination and electricity generation in a microbial desalination cell with electrolyte recirculation for pH control. <i>Bioresource Technology</i> , <b>2012</b> , 106, 89-94	11	129
392	Inhibition of biohydrogen production by ammonia. <i>Water Research</i> , <b>2006</b> , 40, 1167-72	12.5	129
391	The use and optimization of stainless steel mesh cathodes in microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 12020-12028	6.7	128
390	Long-Term Performance of Chemically and Physically Modified Activated Carbons in Air Cathodes of Microbial Fuel Cells. <i>ChemElectroChem</i> , <b>2014</b> , 1, 1859-1866	4.3	127
389	Effect of set potential on hexavalent chromium reduction and electricity generation from biocathode microbial fuel cells. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 5025-31	10.3	127
388	Microbial Degradation of Perchlorate: Principles and Applications. <i>Environmental Engineering Science</i> , <b>2003</b> , 20, 405-422	2	127
387	Bioaugmentation for electricity generation from corn stover biomass using microbial fuel cells. <i>Environmental Science &amp; Technology</i> , <b>2009</b> , 43, 6088-93	10.3	126
386	Specific ion effects on membrane potential and the permselectivity of ion exchange membranes. <i>Physical Chemistry Chemical Physics</i> , <b>2014</b> , 16, 21673-81	3.6	125
385	Syntrophic interactions drive the hydrogen production from glucose at low temperature in microbial electrolysis cells. <i>Bioresource Technology</i> , <b>2012</b> , 124, 68-76	11	125
384	A hybrid microbial fuel cell membrane bioreactor with a conductive ultrafiltration membrane biocathode for wastewater treatment. <i>Environmental Science &amp; Technology</i> , <b>2013</b> , 47, 11821-8	10.3	124
383	Power production in MFCs inoculated with <i>Shewanella oneidensis</i> MR-1 or mixed cultures. <i>Biotechnology and Bioengineering</i> , <b>2010</b> , 105, 489-98	4.9	123
382	Electricity generation from model organic wastewater in a cassette-electrode microbial fuel cell. <i>Applied Microbiology and Biotechnology</i> , <b>2008</b> , 80, 325-30	5.7	123
381	Single-Step Fabrication Using a Phase Inversion Method of Poly(vinylidene fluoride) (PVDF) Activated Carbon Air Cathodes for Microbial Fuel Cells. <i>Environmental Science and Technology Letters</i> , <b>2014</b> , 1, 416-420	11	122

380	Fractal dimensions of aggregates formed in different fluid mechanical environments. <i>Water Research</i> , <b>1995</b> , 29, 443-453	12.5	122
379	Particle size spectra between 1 $\mu$ m and 1 cm at Monterey Bay determined using multiple instruments. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , <b>1997</b> , 44, 1739-1767	2.5	121
378	Ion exchange membrane cathodes for scalable microbial fuel cells. <i>Environmental Science &amp; Technology</i> , <b>2008</b> , 42, 6967-72	10.3	120
377	A thermally regenerative ammonia-based battery for efficient harvesting of low-grade thermal energy as electrical power. <i>Energy and Environmental Science</i> , <b>2015</b> , 8, 343-349	35.4	119
376	Emerging electrochemical and membrane-based systems to convert low-grade heat to electricity. <i>Energy and Environmental Science</i> , <b>2018</b> , 11, 276-285	35.4	118
375	Collision Frequencies of Fractal Aggregates with Small Particles by Differential Sedimentation. <i>Environmental Science &amp; Technology</i> , <b>1997</b> , 31, 1229-1236	10.3	118
374	Kinetics of perchlorate- and chlorate-respiring bacteria. <i>Applied and Environmental Microbiology</i> , <b>2001</b> , 67, 2499-506	4.8	116
373	Macroscopic and Nanoscale Measurements of the Adhesion of Bacteria with Varying Outer Layer Surface Composition. <i>Langmuir</i> , <b>2003</b> , 19, 2366-2371	4	115
372	Bacterial transport in laboratory columns and filters: Influence of ionic strength and pH on collision efficiency. <i>Water Research</i> , <b>1995</b> , 29, 1673-1680	12.5	115
371	Enhanced start-up of anaerobic facultatively autotrophic biocathodes in bioelectrochemical systems. <i>Journal of Biotechnology</i> , <b>2013</b> , 168, 478-85	3.7	114
370	The use of nylon and glass fiber filter separators with different pore sizes in air-cathode single-chamber microbial fuel cells. <i>Energy and Environmental Science</i> , <b>2010</b> , 3, 659	35.4	114
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364	Multi-electrode continuous flow microbial electrolysis cell for biogas production from acetate. <i>International Journal of Hydrogen Energy</i> , <b>2010</b> , 35, 8848-8854	6.7	108
363	Removal of headspace CO <sub>2</sub> increases biological hydrogen production. <i>Environmental Science &amp; Technology</i> , <b>2005</b> , 39, 4416-20	10.3	106

362	Analysis of carbon fiber brush loading in anodes on startup and performance of microbial fuel cells. <i>Journal of Power Sources</i> , <b>2011</b> , 196, 9213-9219	8.9	103
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359	A multi-electrode continuous flow microbial fuel cell with separator electrode assembly design. <i>Applied Microbiology and Biotechnology</i> , <b>2012</b> , 93, 2241-8	5.7	102
358	Examination of microbial fuel cell start-up times with domestic wastewater and additional amendments. <i>Bioresource Technology</i> , <b>2011</b> , 102, 7301-6	11	102
357	Removal of odors from Swine wastewater by using microbial fuel cells. <i>Applied and Environmental Microbiology</i> , <b>2008</b> , 74, 2540-3	4.8	102
356	Comparison of Nonprecious Metal Cathode Materials for Methane Production by Electromethanogenesis. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2014</b> , 2, 910-917	8.3	101
355	Reductive dechlorination and mineralization of pentachlorophenol in biocathode microbial fuel cells. <i>Bioresource Technology</i> , <b>2012</b> , 111, 167-74	11	100
354	Microbial reverse electro dialysis cells for synergistically enhanced power production. <i>Environmental Science &amp; Technology</i> , <b>2011</b> , 45, 5834-9	10.3	100
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234	Measurement of bacterial collision efficiencies in porous media. <i>Water Research</i> , <b>1995</b> , 29, 1151-1158	12.5	49
233	A thermally regenerative ammonia battery with carbon-silver electrodes for converting low-grade waste heat to electricity. <i>Journal of Power Sources</i> , <b>2018</b> , 373, 95-102	8.9	49
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216	Power generation by packed-bed air-cathode microbial fuel cells. <i>Bioresource Technology</i> , <b>2013</b> , 142, 109-14	11	43
215	Optimization of membrane stack configuration for efficient hydrogen production in microbial reverse-electrodialysis electrolysis cells coupled with thermolytic solutions. <i>Bioresource Technology</i> , <b>2013</b> , 140, 399-405	11	43
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