

Bruce E Logan

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Co-precipitation synthesis control for sodium ion adsorption capacity and cycle life of copper hexacyanoferrate electrodes in battery electrode deionization. <i>Chemical Engineering Journal</i> , 2022 , 435, 135001	14.7	0
522	Using copper-based biocathodes to improve carbon dioxide conversion efficiency into methane in microbial methanogenesis cells. <i>Chemical Engineering Journal</i> , 2022 , 435, 135076	14.7	4
521	Hydrodynamic interventions and measurement protocols to quantify and mitigate power overshoot in microbial fuel cells using microfluidics. <i>Electrochimica Acta</i> , 2022 , 405, 139771	6.7	1
520	Power and energy capacity tradeoffs in an all-aqueous copper thermally regenerative ammonia battery. <i>Journal of Power Sources</i> , 2022 , 531, 231339	8.9	1
519	Pilot scale microbial fuel cells using air cathodes for producing electricity while treating wastewater.. <i>Water Research</i> , 2022 , 215, 118208	12.5	5
518	High-rate microbial electrosynthesis using a zero-gap flow cell and vapor-fed anode design. <i>Water Research</i> , 2022 , 118597	12.5	0
517	Long-Term Succession Shows Interspecies Competition of in Exoelectrogenic Biofilms. <i>Environmental Science & Technology</i> , 2021 , 55, 14928-14937	10.3	7
516	Metal-Ion Depletion Impacts the Stability and Performance of Battery Electrode Deionization over Multiple Cycles. <i>Environmental Science & Technology</i> , 2021 , 55, 5412-5421	10.3	7
515	Magnetic seeding coagulation: Effect of Al species and magnetic particles on coagulation efficiency, residual Al, and floc properties. <i>Chemosphere</i> , 2021 , 268, 129363	8.4	7
514	Enabling the use of seawater for hydrogen gas production in water electrolyzers. <i>Joule</i> , 2021 , 5, 760-762	7.8	9
513	The impact of fiber arrangement and advective transport in porous electrodes for silver-based thermally regenerated batteries. <i>Electrochimica Acta</i> , 2021 , 388, 138527	6.7	2
512	Enhanced recalcitrant pollutant degradation using hydroxyl radicals generated using ozone and bioelectricity-driven cathodic hydrogen peroxide production: Bio-E-Peroxone process. <i>Science of the Total Environment</i> , 2021 , 776, 144819	10.2	3
511	Enumeration of exoelectrogens in microbial fuel cell effluents fed acetate or wastewater substrates. <i>Biochemical Engineering Journal</i> , 2021 , 165, 107816	4.2	4
510	Unveiling the correlation of FeO fractions upon the adsorption behavior of sulfamethoxazole on magnetic activated carbon. <i>Science of the Total Environment</i> , 2021 , 757, 143717	10.2	9
509	Separation and recovery of ammonium from industrial wastewater containing methanol using copper hexacyanoferrate (CuHCF) electrodes. <i>Water Research</i> , 2021 , 188, 116532	12.5	3
508	Addition of a carbon fiber brush improves anaerobic digestion compared to external voltage application. <i>Water Research</i> , 2021 , 188, 116575	12.5	27
507	Continuous Flow Microbial Flow Cell with an Anion Exchange Membrane for Treating Low Conductivity and Poorly Buffered Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 2946-2954	8.3	11

506	Improving microbial electrolysis stability using flow-through brush electrodes and monitoring anode potentials relative to thermodynamic minima. <i>International Journal of Hydrogen Energy</i> , 2021 , 46, 9514-9522	6.7	2
505	The effect of high applied voltages on bioanodes of microbial electrolysis cells in the presence of chlorides. <i>Chemical Engineering Journal</i> , 2021 , 405, 126742	14.7	9
504	An All-Aqueous Thermally Regenerative Ammonia Battery Chemistry Using Cu(I, II) Redox Reactions. <i>Journal of the Electrochemical Society</i> , 2021 , 168, 070523	3.9	4
503	Changes in electrode resistances and limiting currents as a function of microbial electrolysis cell reactor configurations. <i>Electrochimica Acta</i> , 2021 , 388, 138590	6.7	3
502	The impact of different types of high surface area brush fibers with different electrical conductivity and biocompatibility on the rates of methane generation in anaerobic digestion. <i>Science of the Total Environment</i> , 2021 , 787, 147683	10.2	7
501	Using an anion exchange membrane for effective hydroxide ion transport enables high power densities in microbial fuel cells. <i>Chemical Engineering Journal</i> , 2021 , 422, 130150	14.7	14
500	Deep learning for pH prediction in water desalination using membrane capacitive deionization. <i>Desalination</i> , 2021 , 516, 115233	10.3	5
499	Comparison of different chemical treatments of brush and flat carbon electrodes to improve performance of microbial fuel cells. <i>Bioresour. Technol.</i> , 2021 , 342, 125932	11	4
498	Impact of surface area and current generation of microbial electrolysis cell electrodes inserted into anaerobic digesters. <i>Chemical Engineering Journal</i> , 2021 , 426, 131281	14.7	5
497	Vapor-Fed Cathode Microbial Electrolysis Cells with Closely Spaced Electrodes Enables Greatly Improved Performance.. <i>Environmental Science & Technology</i> , 2021 ,	10.3	1
496	Recovery of ammonium and phosphate using battery deionization in a background electrolyte. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 1688-1696	4.2	8
495	Efficient CO ₂ conversion to formic acid in a novel microbial photoelectrochemical cell using a visible-light responsive Co ₃ O ₄ nanorod-arrayed photocathode. <i>Applied Catalysis B: Environmental</i> , 2020 , 276, 119102	21.8	23
494	Simultaneously enhancing power density and coulombic efficiency with a hydrophobic Fe ₃ N ₄ /activated carbon air cathode for microbial fuel cells. <i>Journal of Power Sources</i> , 2020 , 465, 228264	8.9	17
493	Improving the Thermodynamic Energy Efficiency of Battery Electrode Deionization Using Flow-Through Electrodes. <i>Environmental Science & Technology</i> , 2020 , 54, 3628-3635	10.3	18
492	Unraveling the contributions of internal resistance components in two-chamber microbial fuel cells using the electrode potential slope analysis. <i>Electrochimica Acta</i> , 2020 , 348, 136291	6.7	23
491	Quantifying the factors limiting performance and rates in microbial fuel cells using the electrode potential slope analysis combined with electrical impedance spectroscopy. <i>Electrochimica Acta</i> , 2020 , 348, 136330	6.7	19
490	Surveying Manganese Oxides as Electrode Materials for Harnessing Salinity Gradient Energy. <i>Environmental Science & Technology</i> , 2020 , 54, 5746-5754	10.3	7
489	A Numerical Investigation into the Relationship between Fluid Flow and Electrodeposition in a Silver Thermally Regenerative Ammonia Battery. <i>ECS Meeting Abstracts</i> , 2020 , MA2020-01, 579-579	0	

488	Adapting Aluminum-Doped Zinc Oxide for Electrically Conductive Membranes Fabricated by Atomic Layer Deposition. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 963-969	9.5	7
487	Sacrificial coating development for biofouling control in membrane systems. <i>Desalination</i> , 2020 , 496, 114650	10.3	8
486	Energy Use for Electricity Generation Requires an Assessment More Directly Relevant to Climate Change. <i>ACS Energy Letters</i> , 2020 , 5, 3514-3517	20.1	4
485	High performance flow through microbial fuel cells with anion exchange membrane. <i>Journal of Power Sources</i> , 2020 , 475, 228633	8.9	17
484	Impact of external resistance acclimation on charge transfer and diffusion resistance in bench-scale microbial fuel cells. <i>Bioresource Technology</i> , 2020 , 318, 123921	11	14
483	Impact of cathodic electron acceptor on microbial fuel cell internal resistance. <i>Bioresource Technology</i> , 2020 , 316, 123919	11	20
482	Chronoamperometry and linear sweep voltammetry reveals the adverse impact of high carbonate buffer concentrations on anode performance in microbial fuel cells. <i>Journal of Power Sources</i> , 2020 , 476, 228715	8.9	7
481	Using reverse osmosis membranes to control ion transport during water electrolysis. <i>Energy and Environmental Science</i> , 2020 , 13, 3138-3148	35.4	19
480	Low-cost Fe ₃ O ₄ catalyst derived from Fe (III)-chitosan hydrogel to enhance power production in microbial fuel cells. <i>Chemical Engineering Journal</i> , 2020 , 380, 122522	14.7	57
479	Stepwise ammonium enrichment using selective battery electrodes. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 1649-1657	4.2	3
478	Application of phase-pure nickel phosphide nanoparticles as cathode catalysts for hydrogen production in microbial electrolysis cells. <i>Bioresource Technology</i> , 2019 , 293, 122067	11	17
477	Electro-Forward Osmosis. <i>Environmental Science & Technology</i> , 2019 , 53, 8352-8361	10.3	6
476	Applying the electrode potential slope method as a tool to quantitatively evaluate the performance of individual microbial electrolysis cell components. <i>Bioresource Technology</i> , 2019 , 287, 121418	11	37
475	Effective Biofouling Control Using Periodic H ₂ O ₂ Cleaning with CuO Modified and Polypropylene Spacers. <i>ACS Sustainable Chemistry and Engineering</i> , 2019 , 7, 9582-9587	8.3	12
474	Nickel powder blended activated carbon cathodes for hydrogen production in microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2019 , 44, 13169-13174	6.7	24
473	Electroactive microorganisms in bioelectrochemical systems. <i>Nature Reviews Microbiology</i> , 2019 , 17, 307-319	22.2	456
472	Mutual benefits of acetate and mixed tungsten and molybdenum for their efficient removal in 40 L microbial electrolysis cells. <i>Water Research</i> , 2019 , 162, 358-368	12.5	18
471	Impact of cleaning procedures on restoring cathode performance for microbial fuel cells treating domestic wastewater. <i>Bioresource Technology</i> , 2019 , 290, 121759	11	20

470	Balancing Water Dissociation and Current Densities To Enable Sustainable Hydrogen Production with Bipolar Membranes in Microbial Electrolysis Cells. <i>Environmental Science & Technology</i> , 2019 , 53, 14761-14768	10.3	15
469	Evaluation of Electrode and Solution Area-Based Resistances Enables Quantitative Comparisons of Factors Impacting Microbial Fuel Cell Performance. <i>Environmental Science & Technology</i> , 2019 , 53, 3977-3986	10.3	52
468	Impact of flow recirculation and anode dimensions on performance of a large scale microbial fuel cell. <i>Journal of Power Sources</i> , 2019 , 412, 294-300	8.9	37
467	Evaluating a multi-panel air cathode through electrochemical and biotic tests. <i>Water Research</i> , 2019 , 148, 51-59	12.5	103
466	Efficient In Situ Utilization of Caustic for Sequential Recovery and Separation of Sn, Fe, and Cu in Microbial Fuel Cells. <i>ChemElectroChem</i> , 2018 , 5, 1658-1669	4.3	11
465	Copper current collectors reduce long-term fouling of air cathodes in microbial fuel cells. <i>Environmental Science: Water Research and Technology</i> , 2018 , 4, 513-519	4.2	13
464	The importance of OH ⁻ transport through anion exchange membrane in microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 2645-2653	6.7	11
463	Emerging electrochemical and membrane-based systems to convert low-grade heat to electricity. <i>Energy and Environmental Science</i> , 2018 , 11, 276-285	35.4	118
462	Hydrogen production rates with closely-spaced felt anodes and cathodes compared to brush anodes in two-chamber microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2018 , 43, 9599-9606	6.7	24
461	Fabrication of Nano-Structured Stacked Sphere SnO ₂ -Sb Electrode with Enhanced Performance Using a Situ Solvothermal Synthesis Method. <i>Journal of the Electrochemical Society</i> , 2018 , 165, E208-E213	3.9	9
460	Effective phosphate removal for advanced water treatment using low energy, migration electric-field assisted electrocoagulation. <i>Water Research</i> , 2018 , 138, 129-136	12.5	35
459	Removal of binary Cr(VI) and Cd(II) from the catholyte of MFCs and determining their fate in EAB using fluorescence probes. <i>Bioelectrochemistry</i> , 2018 , 122, 61-68	5.6	21
458	Electrical current generation in microbial electrolysis cells by hyperthermophilic archaea <i>Ferroglobus placidus</i> and <i>Geoglobus ahangari</i> . <i>Bioelectrochemistry</i> , 2018 , 119, 142-149	5.6	25
457	Evolving Microbial Communities in Cellulose-Fed Microbial Fuel Cell. <i>Energies</i> , 2018 , 11, 124	3.1	33
456	Impact of Ohmic Resistance on Measured Electrode Potentials and Maximum Power Production in Microbial Fuel Cells. <i>Environmental Science & Technology</i> , 2018 , 52, 8977-8985	10.3	52
455	A two-staged system to generate electricity in microbial fuel cells using methane. <i>Chemical Engineering Journal</i> , 2018 , 352, 262-267	14.7	24
454	Electrotrophic activity and electrosynthetic acetate production by <i>Desulfobacterium autotrophicum</i> HRM2. <i>Bioelectrochemistry</i> , 2018 , 123, 150-155	5.6	17
453	Ammonium Removal From Domestic Wastewater Using Selective Battery Electrodes. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 578-583	11	53

452	Polyelectrolyte-Based Sacrificial Protective Layer for Fouling Control in Reverse Osmosis Desalination. <i>Environmental Science and Technology Letters</i> , 2018 , 5, 584-590	11	24
451	In situ biofilm removal from air cathodes in microbial fuel cells treating domestic wastewater. <i>Bioresource Technology</i> , 2018 , 265, 200-206	11	68
450	Enhanced electricity generation and effective water filtration using graphene-based membrane air-cathodes in microbial fuel cells. <i>Journal of Power Sources</i> , 2018 , 395, 221-227	8.9	29
449	A thermally regenerative ammonia battery with carbon-silver electrodes for converting low-grade waste heat to electricity. <i>Journal of Power Sources</i> , 2018 , 373, 95-102	8.9	49
448	Mitigating external and internal cathode fouling using a polymer bonded separator in microbial fuel cells. <i>Bioresource Technology</i> , 2018 , 249, 1080-1084	11	21
447	Enhanced Charge Separation of TiO ₂ Nanotubes Photoelectrode for Efficient Conversion of CO ₂ . <i>ACS Sustainable Chemistry and Engineering</i> , 2018 , 6, 12953-12960	8.3	5
446	Regenerable Nickel-Functionalized Activated Carbon Cathodes Enhanced by Metal Adsorption to Improve Hydrogen Production in Microbial Electrolysis Cells. <i>Environmental Science & Technology</i> , 2018 , 52, 7131-7137	10.3	29
445	Improved electrical power production of thermally regenerative batteries using a poly(phenylene oxide) based anion exchange membrane. <i>Journal of Power Sources</i> , 2017 , 342, 956-963	8.9	41
444	A pH-Gradient Flow Cell for Converting Waste CO ₂ into Electricity. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 49-53	11	18
443	Combined carbon mesh and small graphite fiber brush anodes to enhance and stabilize power generation in microbial fuel cells treating domestic wastewater. <i>Journal of Power Sources</i> , 2017 , 356, 348-355	8.9	63
442	Assessment of a metal-organic framework catalyst in air cathode microbial fuel cells over time with different buffers and solutions. <i>Bioresource Technology</i> , 2017 , 233, 399-405	11	36
441	The impact of new cathode materials relative to baseline performance of microbial fuel cells all with the same architecture and solution chemistry. <i>Energy and Environmental Science</i> , 2017 , 10, 1025-1033	35.4	94
440	Enrichment of extremophilic exoelectrogens in microbial electrolysis cells using Red Sea brine pools as inocula. <i>Bioresource Technology</i> , 2017 , 239, 82-86	11	32
439	Integrating Reverse-Electrodialysis Stacks with Flow Batteries for Improved Energy Recovery from Salinity Gradients and Energy Storage. <i>ChemSusChem</i> , 2017 , 10, 797-803	8.3	19
438	Electricity from methane by reversing methanogenesis. <i>Nature Communications</i> , 2017 , 8, 15419	17.4	90
437	Comparison of cathode catalyst binders for the hydrogen evolution reaction in microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 15739-15744	6.7	20
436	Addition of conductive particles to improve the performance of activated carbon air-cathodes in microbial fuel cells. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 806-810	4.2	18
435	Electrical power production from low-grade waste heat using a thermally regenerative ethylenediamine battery. <i>Journal of Power Sources</i> , 2017 , 351, 45-50	8.9	50

434	High power densities created from salinity differences by combining electrode and Donnan potentials in a concentration flow cell. <i>Energy and Environmental Science</i> , 2017 , 10, 1003-1012	35.4	41
433	Current density reversibly alters metabolic spatial structure of exoelectrogenic anode biofilms. <i>Journal of Power Sources</i> , 2017 , 356, 566-571	8.9	28
432	Addition of acetate improves stability of power generation using microbial fuel cells treating domestic wastewater. <i>Bioelectrochemistry</i> , 2017 , 118, 154-160	5.6	22
431	Low Energy Desalination Using Battery Electrode Deionization. <i>Environmental Science and Technology Letters</i> , 2017 , 4, 444-449	11	166
430	Advanced Materials, Technologies, and Complex Systems Analyses: Emerging Opportunities to Enhance Urban Water Security. <i>Environmental Science & Technology</i> , 2017 , 51, 10274-10281	10.3	93
429	AQDS immobilized solid-phase redox mediators and their role during bioelectricity generation and RR2 decolorization in air-cathode single-chamber microbial fuel cells. <i>Bioelectrochemistry</i> , 2017 , 118, 123-130	5.6	20
428	Impact of catholyte recirculation on different 3-dimensional stainless steel cathodes in microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2017 , 42, 29708-29715	6.7	18
427	Removal of copper from water using a thermally regenerative electrodeposition battery. <i>Journal of Hazardous Materials</i> , 2017 , 322, 551-556	12.8	53
426	Improved Electrocoagulation Reactor for Rapid Removal of Phosphate from Wastewater. <i>ACS Sustainable Chemistry and Engineering</i> , 2017 , 5, 67-71	8.3	32
425	Effect of pre-acclimation of granular activated carbon on microbial electrolysis cell startup and performance. <i>Bioelectrochemistry</i> , 2017 , 113, 20-25	5.6	28
424	Harvesting Energy from Salinity Differences Using Battery Electrodes in a Concentration Flow Cell. <i>Environmental Science & Technology</i> , 2016 , 50, 9791-7	10.3	46
423	The effect of flow modes and electrode combinations on the performance of a multiple module microbial fuel cell installed at wastewater treatment plant. <i>Water Research</i> , 2016 , 105, 351-360	12.5	67
422	Continuous treatment of high strength wastewaters using air-cathode microbial fuel cells. <i>Bioresource Technology</i> , 2016 , 221, 96-101	11	64
421	Immobilization of a Metal-Nitrogen-Carbon Catalyst on Activated Carbon with Enhanced Cathode Performance in Microbial Fuel Cells. <i>ChemSusChem</i> , 2016 , 9, 2226-32	8.3	96
420	Substantial Humic Acid Adsorption to Activated Carbon Air Cathodes Produces a Small Reduction in Catalytic Activity. <i>Environmental Science & Technology</i> , 2016 , 50, 8904-9	10.3	23
419	Impact of acclimation methods on microbial communities and performance of anaerobic fluidized bed membrane bioreactors. <i>Environmental Science: Water Research and Technology</i> , 2016 , 2, 1041-1048	4.2	6
418	Engineering a membrane based air cathode for microbial fuel cells via hot pressing and using multi-catalyst layer stacking. <i>Environmental Science: Water Research and Technology</i> , 2016 , 2, 858-863	4.2	8
417	Evaluating Battery-like Reactions to Harvest Energy from Salinity Differences using Ammonium Bicarbonate Salt Solutions. <i>ChemSusChem</i> , 2016 , 9, 981-8	8.3	29

4 ¹⁶	Diffusion layer characteristics for increasing the performance of activated carbon air cathodes in microbial fuel cells. <i>Environmental Science: Water Research and Technology</i> , 2016 , 2, 266-273	4.2	36
4 ¹⁵	Cooperative cathode electrode and in situ deposited copper for subsequent enhanced Cd(II) removal and hydrogen evolution in bioelectrochemical systems. <i>Bioresource Technology</i> , 2016 , 200, 565-571	4.1	52
4 ¹⁴	Effect of buffer charge on performance of air-cathodes used in microbial fuel cells. <i>Electrochimica Acta</i> , 2016 , 194, 441-447	6.7	24
4 ¹³	Energy efficient electrocoagulation using an air-breathing cathode to remove nutrients from wastewater. <i>Chemical Engineering Journal</i> , 2016 , 292, 308-314	14.7	44
4 ¹²	Performance of anaerobic fluidized membrane bioreactors using effluents of microbial fuel cells treating domestic wastewater. <i>Bioresource Technology</i> , 2016 , 208, 58-63	11	55
4 ¹¹	Microbial fuel cells with an integrated spacer and separate anode and cathode modules. <i>Environmental Science: Water Research and Technology</i> , 2016 , 2, 186-195	4.2	45
4 ¹⁰	Graphene-Coated Hollow Fiber Membrane as the Cathode in Anaerobic Electrochemical Membrane Bioreactors--Effect of Configuration and Applied Voltage on Performance and Membrane Fouling. <i>Environmental Science & Technology</i> , 2016 , 50, 4439-47	10.3	77
4 ⁰⁹	A Thermally-Regenerative Ammonia-Based Flow Battery for Electrical Energy Recovery from Waste Heat. <i>ChemSusChem</i> , 2016 , 9, 873-9	8.3	71
4 ⁰⁸	Set anode potentials affect the electron fluxes and microbial community structure in propionate-fed microbial electrolysis cells. <i>Scientific Reports</i> , 2016 , 6, 38690	4.9	38
4 ⁰⁷	Multiple paths of electron flow to current in microbial electrolysis cells fed with low and high concentrations of propionate. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 5999-6011	5.7	32
4 ⁰⁶	Electrochemical technologies for wastewater treatment and resource reclamation. <i>Environmental Science: Water Research and Technology</i> , 2016 , 2, 800-831	4.2	144
4 ⁰⁵	An aerated and fluidized bed membrane bioreactor for effective wastewater treatment with low membrane fouling. <i>Environmental Science: Water Research and Technology</i> , 2016 , 2, 994-1003	4.2	9
4 ⁰⁴	Pressurized air cathodes for enhanced stability and power generation by microbial fuel cells. <i>Journal of Power Sources</i> , 2016 , 332, 447-453	8.9	19
4 ⁰³	High-Performance Carbon Aerogel Air Cathodes for Microbial Fuel Cells. <i>ChemSusChem</i> , 2016 , 9, 2718-2728	8.18	37
4 ⁰²	High-Performance Carbon Aerogel Air Cathodes for Microbial Fuel Cells. <i>ChemSusChem</i> , 2016 , 9, 2788-2795	8.19	37
4 ⁰¹	A logical data representation framework for electricity-driven bioproduction processes. <i>Biotechnology Advances</i> , 2015 , 33, 736-44	17.8	145
4 ⁰⁰	Enhancing low-grade thermal energy recovery in a thermally regenerative ammonia battery using elevated temperatures. <i>ChemSusChem</i> , 2015 , 8, 1043-8	8.3	55
3 ⁹⁹	Hydrogen production from continuous flow, microbial reverse-electrodialysis electrolysis cells treating fermentation wastewater. <i>Bioresource Technology</i> , 2015 , 195, 51-6	11	49

398	Influence of solution concentration and salt types on the performance of reverse electrodialysis cells. <i>Journal of Membrane Science</i> , 2015 , 494, 154-160	9.6	59
397	Assessment of Microbial Fuel Cell Configurations and Power Densities. <i>Environmental Science and Technology Letters</i> , 2015 , 2, 206-214	11	348
396	Reducing pumping energy by using different flow rates of high and low concentration solutions in reverse electrodialysis cells. <i>Journal of Membrane Science</i> , 2015 , 486, 215-221	9.6	63
395	Adaptively Evolving Bacterial Communities for Complete and Selective Reduction of Cr(VI), Cu(II), and Cd(II) in Biocathode Bioelectrochemical Systems. <i>Environmental Science & Technology</i> , 2015 , 49, 9914-24	10.3	111
394	Methanobacterium Dominates Biocathodic Archaeal Communities in Methanogenic Microbial Electrolysis Cells. <i>ACS Sustainable Chemistry and Engineering</i> , 2015 , 3, 1668-1676	8.3	102
393	Anode acclimation methods and their impact on microbial electrolysis cells treating fermentation effluent. <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 6782-6791	6.7	25
392	Impact of electrode configurations on retention time and domestic wastewater treatment efficiency using microbial fuel cells. <i>Water Research</i> , 2015 , 80, 41-6	12.5	113
391	Alamethicin suppresses methanogenesis and promotes acetogenesis in bioelectrochemical systems. <i>Applied and Environmental Microbiology</i> , 2015 , 81, 3863-8	4.8	22
390	Temporal-spatial changes in viabilities and electrochemical properties of anode biofilms. <i>Environmental Science & Technology</i> , 2015 , 49, 5227-35	10.3	130
389	Reducing nitrogen crossover in microbial reverse-electrodialysis cells by using adjacent anion exchange membranes and anion exchange resin. <i>Environmental Science: Water Research and Technology</i> , 2015 , 1, 865-873	4.2	2
388	Conjugated oligoelectrolyte represses hydrogen oxidation by <i>Geobacter sulfurreducens</i> in microbial electrolysis cells. <i>Bioelectrochemistry</i> , 2015 , 106, 379-82	5.6	6
387	Development of carbon free diffusion layer for activated carbon air cathode of microbial fuel cells. <i>Bioresour. Technol.</i> , 2015 , 197, 318-22	11	35
386	A thermally regenerative ammonia-based battery for efficient harvesting of low-grade thermal energy as electrical power. <i>Energy and Environmental Science</i> , 2015 , 8, 343-349	35.4	119
385	COD removal characteristics in air-cathode microbial fuel cells. <i>Bioresour. Technol.</i> , 2015 , 176, 23-31	11	162
384	Attenuation of trace organic compounds (TOCs) in bioelectrochemical systems. <i>Water Research</i> , 2015 , 73, 56-67	12.5	25
383	Intermittent contact of fluidized anode particles containing exoelectrogenic biofilms for continuous power generation in microbial fuel cells. <i>Journal of Power Sources</i> , 2014 , 261, 278-284	8.9	54
382	Electrochemical struvite precipitation from digestate with a fluidized bed cathode microbial electrolysis cell. <i>Water Research</i> , 2014 , 54, 297-306	12.5	98
381	Energy harvesting from organic liquids in micro-sized microbial fuel cells. <i>NPG Asia Materials</i> , 2014 , 6, e89-e89	10.3	58

380	Treating refinery wastewaters in microbial fuel cells using separator electrode assembly or spaced electrode configurations. <i>Bioresource Technology</i> , 2014 , 152, 46-52	11	51
379	Different electrode configurations to optimize performance of multi-electrode microbial fuel cells for generating power or treating domestic wastewater. <i>Journal of Power Sources</i> , 2014 , 249, 440-445	8.9	68
378	A novel anaerobic electrochemical membrane bioreactor (AnEMBR) with conductive hollow-fiber membrane for treatment of low-organic strength solutions. <i>Environmental Science & Technology</i> , 2014 , 48, 12833-41	10.3	151
377	Long-Term Performance of Chemically and Physically Modified Activated Carbons in Air Cathodes of Microbial Fuel Cells. <i>ChemElectroChem</i> , 2014 , 1, 1859-1866	4.3	127
376	Repression of hydrogen uptake using conjugated oligoelectrolytes in microbial electrolysis cells. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 19407-19415	6.7	9
375	Using Flow Electrodes in Multiple Reactors in Series for Continuous Energy Generation from Capacitive Mixing. <i>Environmental Science and Technology Letters</i> , 2014 , 1, 474-478	11	45
374	Specific ion effects on membrane potential and the permselectivity of ion exchange membranes. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 21673-81	3.6	125
373	Comparison of hydrogen production and electrical power generation for energy capture in closed-loop ammonium bicarbonate reverse electrodialysis systems. <i>Physical Chemistry Chemical Physics</i> , 2014 , 16, 1632-8	3.6	49
372	<i>Geobacter</i> sp. SD-1 with enhanced electrochemical activity in high-salt concentration solutions. <i>Environmental Microbiology Reports</i> , 2014 , 6, 723-9	3.7	41
371	Microbial community composition is unaffected by anode potential. <i>Environmental Science & Technology</i> , 2014 , 48, 1352-8	10.3	141
370	Comparison of Nonprecious Metal Cathode Materials for Methane Production by Electromethanogenesis. <i>ACS Sustainable Chemistry and Engineering</i> , 2014 , 2, 910-917	8.3	101
369	Enhanced water desalination efficiency in an air-cathode stacked microbial electrodeionization cell (SMEDIC). <i>Journal of Membrane Science</i> , 2014 , 469, 364-370	9.6	31
368	Hydrogen evolution catalyzed by viable and non-viable cells on biocathodes. <i>International Journal of Hydrogen Energy</i> , 2014 , 39, 16841-16851	6.7	42
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36	Size distributions and fractal properties of particles during a simulated phytoplankton bloom in a mesocosm. <i>Deep-Sea Research Part II: Topical Studies in Oceanography, 1995</i> , 42, 125-138	2.3	54
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32	Measurement of bacterial collision efficiencies in porous media. <i>Water Research, 1995</i> , 29, 1151-1158	12.5	49
31	Bacterial transport in laboratory columns and filters: Influence of ionic strength and pH on collision efficiency. <i>Water Research, 1995</i> , 29, 1673-1680	12.5	115
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27	Effect of bacterial heterogeneity on adhesion to uniform collectors by monoclonal populations. <i>FEMS Microbiology Letters, 1994</i> , 124, 321-326	2.9	87
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13	Fractal dimensions and porosities of <i>Zoogloea ramigera</i> and <i>Saccharomyces cerevisiae</i> aggregates. <i>Biotechnology and Bioengineering</i> , 1991 , 38, 389-96	4.9	48
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