

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Wastewater treatment meets artificial photosynthesis: Solar to green fuel production, water remediation and carbon emission reduction. Frontiers of Environmental Science and Engineering, 2022, 16, 1.		5
2	Wearable Microbial Fuel Cells for Sustainable Self-Powered Electronic Skins. ACS Applied Materials & Interfaces, 2022, 14, 8664-8668.		11
3	Long-term metal pollution shifts microbial functional profiles of nitrification and denitrification in agricultural soils. Science of the Total Environment, 2022, 830, 154732.	8.0	15
4	Electrochemical biofilm control by reconstructing microbial community in agricultural water distribution systems. Journal of Hazardous Materials, 2021, 403, 123616.		20
5	Electrical decoupling of microbial electrochemical reactions enables spontaneous H ₂ evolution. Energy and Environmental Science, 2020, 13, 495-502.	30.8	20
6	Spontaneous Solar Syngas Production from CO2 Driven by Energetically Favorable Wastewater Microbial Anodes. Joule, 2020, 4, 2149-2161.	24.0	27
7	Moisture retention extended enhanced bioelectrochemical remediation of unsaturated soil. Science of the Total Environment, 2020, 724, 138169.	8.0	16
8	Molecular Transformation of Crude Oil Contaminated Soil after Bioelectrochemical Degradation Revealed by FT-ICR Mass Spectrometry. Environmental Science & Technology, 2020, 54, 2500-2509.	10.0	19
9	Geochemical and microbial characterizations of flowback and produced water in three shale oil and gas plays in the central and western United States. Water Research, 2019, 164, 114942.	11.3	64
10	Dominance of electroactive microbiomes in bioelectrochemical remediation of hydrocarbon-contaminated soils with different textures. Chemosphere, 2019, 235, 776-784.	8.2	42
11	Microbial electrochemical treatment of biorefinery black liquor and resource recovery. Green Chemistry, 2019, 21, 1258-1266.	9.0	28
12	Active harvesting enhances energy recovery and function of electroactive microbiomes in microbial fuel cells. Applied Energy, 2019, 247, 492-502.	10.1	33
13	Sensitivity and Bifurcation Analysis of a Differential-Algebraic Equation Model for a Microbial Electrolysis Cell. SIAM Journal on Applied Dynamical Systems, 2019, 18, 709-728.	1.6	8
14	Concurrent Nitrogen and Phosphorus Recovery Using Flow-Electrode Capacitive Deionization. ACS Sustainable Chemistry and Engineering, 2019, 7, 7844-7850.	6.7	84
15	Unbiased solar H ₂ production with current density up to 23 mA cm ^{â^'2} by Swiss-cheese black Si coupled with wastewater bioanode. Energy and Environmental Science, 2019, 12, 1088-1099.	30.8	48
16	Comment on "Unbiased solar H ₂ production with current density up to 23 mA cm ^{â^²2} by Swiss-cheese black Si coupled with wastewater bioanode―by L. Lu, W. Vakki, J. A. Aguiar, C. Xiao, K. Hurst, M. Fairchild, X. Chen, F. Yang, J. Gu and Z. J. Ren, <i>Energy Environ. Sci.</i> , 2019, 12 , 1088. Energy and Environmental Science, 2019, 12, 3412-3414.	30.8	6
17	Carbon dioxide and organic waste valorization by microbial electrosynthesis and electro-fermentation. Water Research, 2019, 149, 42-55.	11.3	191
18	Wastewater treatment for carbon capture and utilization. Nature Sustainability, 2018, 1, 750-758.	23.7	299

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19	Electrochemical Control of Redox Potential Arrests Methanogenesis and Regulates Products in Mixed Culture Electro-Fermentation. ACS Sustainable Chemistry and Engineering, 2018, 6, 8650-8658.	6.7	54
20	Urine-powered synergy of nutrient recovery and urine purification in a microbial electrochemical system. Environmental Science: Water Research and Technology, 2018, 4, 1427-1438.	2.4	25
21	Autotrophic Vanadium(V) Bioreduction in Groundwater by Elemental Sulfur and Zerovalent Iron. Environmental Science & Technology, 2018, 52, 7434-7442.	10.0	125
22	Microbial electrochemical nutrient recovery in anaerobic osmotic membrane bioreactors. Water Research, 2017, 114, 181-188.	11.3	81
23	Electrochemical hythane production for renewable energy storage and biogas upgrading. Applied Energy, 2017, 187, 595-600.	10.1	47
24	Resin-enhanced rolling activated carbon electrode for efficient capacitive deionization. Desalination, 2017, 419, 20-28.	8.2	56
25	The Microbial Electrochemical Current Accelerates Urea Hydrolysis for Recovery of Nutrients from Source-Separated Urine. Environmental Science and Technology Letters, 2017, 4, 305-310.	8.7	50
26	Microbial Photoelectrosynthesis for Self-Sustaining Hydrogen Generation. Environmental Science & Technology, 2017, 51, 13494-13501.	10.0	34
27	Geophysical Monitoring of Hydrocarbon-Contaminated Soils Remediated with a Bioelectrochemical System. Environmental Science & Technology, 2016, 50, 8205-8213.	10.0	46
28	Active H ₂ Harvesting Prevents Methanogenesis in Microbial Electrolysis Cells. Environmental Science and Technology Letters, 2016, 3, 286-290.	8.7	70
29	Microbial electrolysis cells for waste biorefinery: A state of the art review. Bioresource Technology, 2016, 215, 254-264.	9.6	273
30	Microbial fuel cells and osmotic membrane bioreactors have mutual benefits for wastewater treatment and energy production. Water Research, 2016, 98, 183-189.	11.3	78
31	Nickel based catalysts for highly efficient H2 evolution from wastewater in microbial electrolysis cells. Electrochimica Acta, 2016, 206, 381-387.	5.2	102
32	Self-sustaining carbon capture and mineralization via electrolytic carbonation of coal fly ash. Chemical Engineering Journal, 2016, 306, 330-335.	12.7	17
33	Alternating Current Influences Anaerobic Electroactive Biofilm Activity. Environmental Science & Technology, 2016, 50, 9169-9176.	10.0	52
34	Ambient CO2 capture and storage in bioelectrochemically mediated wastewater treatment. Bioresource Technology, 2016, 215, 380-385.	9.6	17
35	Iron-rich nanoparticle encapsulated, nitrogen doped porous carbon materials as efficient cathode electrocatalyst for microbial fuel cells. Journal of Power Sources, 2016, 315, 302-307.	7.8	76
36	Individual and competitive removal of heavy metals using capacitive deionization. Journal of Hazardous Materials, 2016, 302, 323-331.	12.4	162

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37	Graphene oxide and H2 production from bioelectrochemical graphite oxidation. Scientific Reports, 2015, 5, 16242.	3.3	22
38	Characteristic changes in algal organic matter derived from Microcystis aeruginosa in microbial fuel cells. Bioresource Technology, 2015, 195, 25-30.	9.6	23
39	Microbial community structure accompanied with electricity production in a constructed wetland plant microbial fuel cell. Bioresource Technology, 2015, 195, 115-121.	9.6	228
40	Microbial Electrolytic Carbon Capture for Carbon Negative and Energy Positive Wastewater Treatment. Environmental Science & amp; Technology, 2015, 49, 8193-8201.	10.0	76
41	Microbial Metabolism and Community Structure in Response to Bioelectrochemically Enhanced Remediation of Petroleum Hydrocarbon-Contaminated Soil. Environmental Science & Technology, 2014, 48, 4021-4029.	10.0	254
42	Enhanced bioremediation of hydrocarbon-contaminated soil using pilot-scale bioelectrochemical systems. Journal of Hazardous Materials, 2014, 274, 8-15.	12.4	154
43	Ferric iron enhances electricity generation by Shewanella oneidensis MR-1 in MFCs. Bioresource Technology, 2013, 135, 630-634.	9.6	66
44	Simultaneous bioelectrochemical degradation of algae sludge and energy recovery in microbial fuel cells. RSC Advances, 2012, 2, 7228.	3.6	23
45	Bioreactor Performance and Quantitative Analysis of Methanogenic and Bacterial Community Dynamics in Microbial Electrolysis Cells during Large Temperature Fluctuations. Environmental Science & Technology, 2012, 46, 6874-6881.	10.0	64
46	Enhanced hydrogen production from waste activated sludge by cascade utilization of organic matter in microbial electrolysis cells. Water Research, 2012, 46, 1015-1026.	11.3	166
47	Pyrosequencing reveals highly diverse microbial communities in microbial electrolysis cells involved in enhanced H2 production from waste activated sludge. Water Research, 2012, 46, 2425-2434.	11.3	317
48	Combined effects of enrichment procedure and non-fermentable or fermentable co-substrate on performance and bacterial community for pentachlorophenol degradation in microbial fuel cells. Bioresource Technology, 2012, 120, 120-126.	9.6	50
49	The effects of metal ions and l-cysteine on hydA gene expression and hydrogen production by Clostridium beijerinckii RZF-1108. International Journal of Hydrogen Energy, 2012, 37, 13711-13717.	7.1	54
50	Syntrophic interactions drive the hydrogen production from glucose at low temperature in microbial electrolysis cells. Bioresource Technology, 2012, 124, 68-76.	9.6	149
51	Degradation of algal organic matter using microbial fuel cells and its association with trihalomethane precursor removal. Bioresource Technology, 2012, 116, 80-85.	9.6	48
52	Hydrogen production, methanogen inhibition and microbial community structures in psychrophilic single-chamber microbial electrolysis cells. Energy and Environmental Science, 2011, 4, 1329.	30.8	163
53	Photocatalytic pretreatment of oily wastewater from the restaurant by a vacuum ultraviolet/TiO2 system. Journal of Hazardous Materials, 2011, 186, 849-854.	12.4	48
54	Hydrogen production from proteins via electrohydrogenesis in microbial electrolysis cells. Biosensors and Bioelectronics, 2010, 25, 2690-2695.	10.1	108

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55	Hydrogen production with effluent from an ethanol–H2-coproducing fermentation reactor us single-chamber microbial electrolysis cell. Biosensors and Bioelectronics, 2009, 24, 3055-3060.	sing a	10.1	197

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