

Thja Sleutels

List of Publications by Year in descending order

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65
papers

4,846
citations

159585

30
h-index

106344

65
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66
all docs

66
docs citations

66
times ranked

3346
citing authors

#	ARTICLE	IF	CITATIONS
1	The effect of intermittent anode potential regimes on the morphology and extracellular matrix composition of electro-active bacteria. <i>Biofilm</i> , 2022, 4, 100064.	3.8	10
2	Application of ammonium fertilizers recovered by an Electrochemical System. <i>Resources, Conservation and Recycling</i> , 2022, 181, 106225.	10.8	10
3	Real-time monitoring of biofilm thickness allows for determination of acetate limitations in bio-anodes. <i>Bioresource Technology Reports</i> , 2022, 18, 101028.	2.7	6
4	Methane-Dependent Extracellular Electron Transfer at the Bioanode by the Anaerobic Archaeal Methanotroph <i>Candidatus Methanoperedens</i> . <i>Frontiers in Microbiology</i> , 2022, 13, 820989.	3.5	10
5	Ammonia recovery from anaerobic digester centrate using onsite pilot scale bipolar membrane electro dialysis coupled to membrane stripping. <i>Water Research</i> , 2022, 218, 118504.	11.3	22
6	Opportunities for visual techniques to determine characteristics and limitations of electro-active biofilms. <i>Biotechnology Advances</i> , 2022, 60, 108011.	11.7	4
7	Effects of Current on the Membrane and Boundary Layer Selectivity in Electrochemical Systems Designed for Nutrient Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , 2022, 10, 9411-9418.	6.7	5
8	Electron Storage in Electroactive Biofilms. <i>Trends in Biotechnology</i> , 2021, 39, 34-42.	9.3	56
9	Enrichment of Hydrogen-Oxidizing Bacteria from High-Temperature and High-Salinity Environments. <i>Applied and Environmental Microbiology</i> , 2021, 87, .	3.1	5
10	Making the best use of capacitive current: Comparison between fixed and moving granular bioanodes. <i>Journal of Power Sources</i> , 2021, 489, 229453.	7.8	4
11	Safeguarding the microbial water quality from source to tap. <i>Npj Clean Water</i> , 2021, 4, .	8.0	25
12	Improving the discharge of capacitive granules in a moving bed reactor. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105556.	6.7	3
13	Donnan Dialysis for scaling mitigation during electrochemical ammonium recovery from complex wastewater. <i>Water Research</i> , 2021, 201, 117260.	11.3	21
14	Bio-electrochemical degradability of prospective wastewaters to determine their ammonium recovery potential. <i>Sustainable Energy Technologies and Assessments</i> , 2021, 47, 101423.	2.7	0
15	Fouling fractionation in reverse electro dialysis with natural feed waters demonstrates dual media rapid filtration as an effective pre-treatment for fresh water. <i>Desalination</i> , 2021, 518, 115277.	8.2	18
16	Effective orthophosphate removal from surface water using hydrogen-oxidizing bacteria: Moving towards applicability. <i>Science of the Total Environment</i> , 2021, 800, 149648.	8.0	5
17	An acid-doped ice membrane for selective proton transport. <i>International Journal of Energy Research</i> , 2021, 45, 8041-8048.	4.5	2
18	Combination of bioelectrochemical systems and electrochemical capacitors: Principles, analysis and opportunities. <i>Biotechnology Advances</i> , 2020, 39, 107456.	11.7	55

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19	Competition of electrogens with methanogens for hydrogen in bioanodes. <i>Water Research</i> , 2020, 170, 115292.	11.3	20
20	Enhanced Phototrophic Biomass Productivity through Supply of Hydrogen Gas. <i>Environmental Science and Technology Letters</i> , 2020, 7, 861-865.	8.7	1
21	Minimal Bipolar Membrane Cell Configuration for Scaling Up Ammonium Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020, 8, 17359-17367.	6.7	26
22	Considerations for application of granular activated carbon as capacitive bioanode in bioelectrochemical systems. <i>Renewable Energy</i> , 2020, 157, 782-792.	8.9	29
23	Exploiting Donnan Dialysis to enhance ammonia recovery in an electrochemical system. <i>Chemical Engineering Journal</i> , 2020, 395, 125143.	12.7	18
24	Hydrogen oxidizing bacteria are capable of removing orthophosphate to ultra-low concentrations in a fed batch reactor configuration. <i>Bioresource Technology</i> , 2020, 311, 123494.	9.6	9
25	The granular capacitive moving bed reactor for the scale up of bioanodes. <i>Journal of Chemical Technology and Biotechnology</i> , 2019, 94, 2738-2748.	3.2	16
26	Comparison of Two Sustainable Counter Electrodes for Energy Storage in the Microbial Rechargeable Battery. <i>ChemElectroChem</i> , 2019, 6, 2464-2473.	3.4	6
27	The RED Fouling Monitor: A novel tool for fouling analysis. <i>Journal of Membrane Science</i> , 2019, 570-571, 294-302.	8.2	15
28	Haloalkaliphilic microorganisms assist sulfide removal in a microbial electrolysis cell. <i>Journal of Hazardous Materials</i> , 2019, 363, 197-204.	12.4	29
29	(Bio)electrochemical ammonia recovery: progress and perspectives. <i>Applied Microbiology and Biotechnology</i> , 2018, 102, 3865-3878.	3.6	130
30	In-situ Biofilm Quantification in Bioelectrochemical Systems by using Optical Coherence Tomography. <i>ChemSusChem</i> , 2018, 11, 2171-2178.	6.8	30
31	Microbial Community and Metabolic Activity in Thiocyanate Degrading Low Temperature Microbial Fuel Cells. <i>Frontiers in Microbiology</i> , 2018, 9, 2308.	3.5	7
32	Energy-Efficient Ammonia Recovery in an Up-Scaled Hydrogen Gas Recycling Electrochemical System. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 7638-7644.	6.7	43
33	Quantification of bio-anode capacitance in bioelectrochemical systems using Electrochemical Impedance Spectroscopy. <i>Journal of Power Sources</i> , 2018, 400, 533-538.	7.8	50
34	Ammonia recovery from urine in a scaled-up Microbial Electrolysis Cell. <i>Journal of Power Sources</i> , 2017, 356, 491-499.	7.8	132
35	Hydrogen Gas Recycling for Energy Efficient Ammonia Recovery in Electrochemical Systems. <i>Environmental Science & Technology</i> , 2017, 51, 3110-3116.	10.0	82
36	Membrane Selectivity Determines Energetic Losses for Ion Transport in Bioelectrochemical Systems. <i>ChemistrySelect</i> , 2017, 2, 3462-3470.	1.5	38

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37	Prototype of a scaled-up microbial fuel cell for copper recovery. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2817-2824.	3.2	20
38	Mixed Culture Biocathodes for Production of Hydrogen, Methane, and Carboxylates. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2017, 167, 203-229.	1.1	12
39	Gas diffusion electrodes improve hydrogen gas mass transfer for a hydrogen oxidizing bioanode. <i>Journal of Chemical Technology and Biotechnology</i> , 2017, 92, 2963-2968.	3.2	9
40	Competition between Methanogens and Acetogens in Biocathodes: A Comparison between Potentiostatic and Galvanostatic Control. <i>International Journal of Molecular Sciences</i> , 2017, 18, 204.	4.1	42
41	Low Substrate Loading Limits Methanogenesis and Leads to High Coulombic Efficiency in Bioelectrochemical Systems. <i>Microorganisms</i> , 2016, 4, 7.	3.6	63
42	Performance of single carbon granules as perspective for larger scale capacitive bioanodes. <i>Journal of Power Sources</i> , 2016, 325, 690-696.	7.8	66
43	Gas-permeable hydrophobic membranes enable transport of CO ₂ and NH ₃ to improve performance of bioelectrochemical systems. <i>Environmental Science: Water Research and Technology</i> , 2016, 2, 743-748.	2.4	13
44	Hydrogen as electron donor for copper removal in bioelectrochemical systems. <i>International Journal of Hydrogen Energy</i> , 2016, 41, 5758-5764.	7.1	35
45	Microbial Rechargeable Battery: Energy Storage and Recovery through Acetate. <i>Environmental Science and Technology Letters</i> , 2016, 3, 144-149.	8.7	27
46	Possibilities for extremophilic microorganisms in microbial electrochemical systems. <i>FEMS Microbiology Reviews</i> , 2016, 40, 164-181.	8.6	99
47	High rate copper and energy recovery in microbial fuel cells. <i>Frontiers in Microbiology</i> , 2015, 6, 527.	3.5	55
48	Bioelectrochemical systems for nitrogen removal and recovery from wastewater. <i>Environmental Science: Water Research and Technology</i> , 2015, 1, 22-33.	2.4	117
49	Fluidized Capacitive Bioanode As a Novel Reactor Concept for the Microbial Fuel Cell. <i>Environmental Science & Technology</i> , 2015, 49, 1929-1935.	10.0	86
50	Hydrogen production and ammonium recovery from urine by a Microbial Electrolysis Cell. <i>International Journal of Hydrogen Energy</i> , 2014, 39, 4771-4778.	7.1	170
51	Steady-state performance and chemical efficiency of Microbial Electrolysis Cells. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 7201-7208.	7.1	46
52	Relating MEC population dynamics to anode performance from DGGE and electrical data. <i>Systematic and Applied Microbiology</i> , 2013, 36, 408-416.	2.8	17
53	Influence of the thickness of the capacitive layer on the performance of bioanodes in Microbial Fuel Cells. <i>Journal of Power Sources</i> , 2013, 243, 611-616.	7.8	59
54	Bioelectrochemical Production of Caproate and Caprylate from Acetate by Mixed Cultures. <i>ACS Sustainable Chemistry and Engineering</i> , 2013, 1, 513-518.	6.7	155

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55	Capacitive Bioanodes Enable Renewable Energy Storage in Microbial Fuel Cells. <i>Environmental Science & Technology</i> , 2012, 46, 3554-3560.	10.0	168
56	Ammonium recovery and energy production from urine by a microbial fuel cell. <i>Water Research</i> , 2012, 46, 2627-2636.	11.3	381
57	Bioelectrochemical Systems: An Outlook for Practical Applications. <i>ChemSusChem</i> , 2012, 5, 1012-1019.	6.8	220
58	Effect of operational parameters on Coulombic efficiency in bioelectrochemical systems. <i>Bioresource Technology</i> , 2011, 102, 11172-11176.	9.6	126
59	Effect of mass and charge transport speed and direction in porous anodes on microbial electrolysis cell performance. <i>Bioresource Technology</i> , 2011, 102, 399-403.	9.6	42
60	New applications and performance of bioelectrochemical systems. <i>Applied Microbiology and Biotechnology</i> , 2010, 85, 1673-1685.	3.6	237
61	Reduction of pH Buffer Requirement in Bioelectrochemical Systems. <i>Environmental Science & Technology</i> , 2010, 44, 8259-8263.	10.0	31
62	Ion transport resistance in Microbial Electrolysis Cells with anion and cation exchange membranes. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 3612-3620.	7.1	219
63	Improved performance of porous bio-anodes in microbial electrolysis cells by enhancing mass and charge transport. <i>International Journal of Hydrogen Energy</i> , 2009, 34, 9655-9661.	7.1	103
64	Effect of the type of ion exchange membrane on performance, ion transport, and pH in biocatalyzed electrolysis of wastewater. <i>Water Science and Technology</i> , 2008, 57, 1757-1762.	2.5	189
65	Microbial Electrolysis Cells for High Yield Hydrogen Gas Production from Organic Matter. <i>Environmental Science & Technology</i> , 2008, 42, 8630-8640.	10.0	1,091