Cees J N Buisman

List of Publications by Citations

63 papers	6,627 citations	39 h-index	63 g-index
63 ext. papers	7,440 ext. citations	8.1 avg, IF	5.99 L-index

#	Paper	IF	Citations
63	Towards practical implementation of bioelectrochemical wastewater treatment. *Trends in Biotechnology*, **2008**, 26, 450-9	15.1	921
62	Hydrogen production with a microbial biocathode. *Environmental Science & Technology*, **2008**, 42, 629-34	10.3	391
61	Performance of single chamber biocatalyzed electrolysis with different types of ion exchange membranes. *Water Research*, **2007**, 41, 1984-94	12.5	315
60	Ammonium recovery and energy production from urine by a microbial fuel cell. *Water Research*, **2012**, 46, 2627-36	12.5	306
59	Chain Elongation with Reactor Microbiomes: Open-Culture Biotechnology To Produce Biochemicals. *Environmental Science & Technology*, **2016**, 50, 2796-810	10.3	281
58	A bipolar membrane combined with ferric iron reduction as an efficient cathode system in microbial fuel cells. *Environmental Science & Technology*, **2006**, 40, 5200-5	10.3	254
57	Bioelectrochemical ethanol production through mediated acetate reduction by mixed cultures. *Environmental Science & Technology*, **2010**, 44, 513-7	10.3	232
56	Microbial electrolysis cell with a microbial biocathode. *Bioelectrochemistry*, **2010**, 78, 39-43	5.6	218
55	Carbon dioxide reduction by mixed and pure cultures in microbial electrosynthesis using an assembly of graphite felt and stainless steel as a cathode. *Bioresource Technology*, **2015**, 195, 14-24	11	207
54	Ion transport resistance in Microbial Electrolysis Cells with anion and cation exchange membranes. *International Journal of Hydrogen Energy*, **2009**, 34, 3612-3620	6.7	199
53	Bioelectrochemical systems: an outlook for practical applications. *ChemSusChem*, **2012**, 5, 1012-9	8.3	192
52	Microbial solar cells: applying photosynthetic and electrochemically active organisms. *Trends in Biotechnology*, **2011**, 29, 41-9	15.1	181
51	Performance of non-porous graphite and titanium-based anodes in microbial fuel cells. *Electrochimica Acta*, **2008**, 53, 5697-5703	6.7	167
50	Analysis and improvement of a scaled-up and stacked microbial fuel cell. *Environmental Science & Technology*, **2009**, 43, 9038-42	10.3	165
49	Microbial electrolysis cells for production of methane from CO2: long-term performance and perspectives. *International Journal of Energy Research*, **2012**, 36, 809-819	4.5	147
48	Bioelectrochemical Power-to-Gas: State of the Art and Future Perspectives. *Trends in Biotechnology* , **2016**, 34, 879-894	15.1	135
47	Alcohol production through volatile fatty acids reduction with hydrogen as electron donor by mixed cultures. *Water Research*, **2008**, 42, 4059-66	12.5	129

46	Capacitive bioanodes enable renewable energy storage in microbial fuel cells. *Environmental Science & Technology*, **2012**, 46, 3554-60	10.3	128
45	Bioelectrochemical Production of Caproate and Caprylate from Acetate by Mixed Cultures. *ACS Sustainable Chemistry and Engineering*, **2013**, 1, 513-518	8.3	123
44	Source-separated urine opens golden opportunities for microbial electrochemical technologies. *Trends in Biotechnology*, **2015**, 33, 214-20	15.1	121
43	Two-stage medium chain fatty acid (MCFA) production from municipal solid waste and ethanol. *Applied Energy*, **2014**, 116, 223-229	10.7	120
42	Effect of operational parameters on Coulombic efficiency in bioelectrochemical systems. *Bioresource Technology*, **2011**, 102, 11172-6	11	111
41	Butler-Volmer-Monod model for describing bio-anode polarization curves. *Bioresource Technology*, **2011**, 102, 381-7	11	105
40	Ammonia recovery from urine in a scaled-up Microbial Electrolysis Cell. *Journal of Power Sources*, **2017**, 356, 491-499	8.9	97
39	Improved performance of porous bio-anodes in microbial electrolysis cells by enhancing mass and charge transport. *International Journal of Hydrogen Energy*, **2009**, 34, 9655-9661	6.7	96
38	Improving medium chain fatty acid productivity using chain elongation by reducing the hydraulic retention time in an upflow anaerobic filter. *Bioresource Technology*, **2013**, 136, 735-8	11	95
37	Critical Biofilm Growth throughout Unmodified Carbon Felts Allows Continuous Bioelectrochemical Chain Elongation from CO2 up to Caproate at High Current Density. *Frontiers in Energy Research*, **2018**, 6,	3.8	93
36	Analysis of the mechanisms of bioelectrochemical methane production by mixed cultures. *Journal of Chemical Technology and Biotechnology*, **2015**, 90, 963-970	3.5	77
35	Microbial community analysis of a methane-producing biocathode in a bioelectrochemical system. *Archaea*, **2013**, 2013, 481784	2	76
34	Controlling Ethanol Use in Chain Elongation by CO Loading Rate. *Environmental Science & Technology*, **2018**, 52, 1496-1505	10.3	71
33	Fluidized capacitive bioanode as a novel reactor concept for the microbial fuel cell. *Environmental Science & Technology*, **2015**, 49, 1929-35	10.3	61
32	Continuous Long-Term Bioelectrochemical Chain Elongation to Butyrate. *ChemElectroChem*, **2017**, 4, 386-395	4.3	60
31	Hydrogen Gas Recycling for Energy Efficient Ammonia Recovery in Electrochemical Systems. *Environmental Science & Technology*, **2017**, 51, 3110-3116	10.3	56
30	Bioelectrochemical conversion of CO to chemicals: CO as a next generation feedstock for electricity-driven bioproduction in batch and continuous modes. *Faraday Discussions*, **2017**, 202, 433-449	3.6	55
29	Performance of single carbon granules as perspective for larger scale capacitive bioanodes. *Journal of Power Sources*, **2016**, 325, 690-696	8.9	53

28	Influence of the thickness of the capacitive layer on the performance of bioanodes in Microbial Fuel Cells. *Journal of Power Sources*, **2013**, 243, 611-616	8.9	51
27	Methanol as an alternative electron donor in chain elongation for butyrate and caproate formation. *Biomass and Bioenergy*, **2016**, 93, 201-208	5.3	45
26	Monophyletic group of unclassified Proteobacteria dominates in mixed culture biofilm of high-performing oxygen reducing biocathode. *Bioelectrochemistry*, **2015**, 106, 167-76	5.6	42
25	Low Substrate Loading Limits Methanogenesis and Leads to High Coulombic Efficiency in Bioelectrochemical Systems. *Microorganisms*, **2016**, 4,	4.9	42
24	Heat-Treated Stainless Steel Felt as a New Cathode Material in a Methane-Producing Bioelectrochemical System. *ACS Sustainable Chemistry and Engineering*, **2017**, 5, 11346-11353	8.3	39
23	Granular Carbon-Based Electrodes as Cathodes in Methane-Producing Bioelectrochemical Systems. *Frontiers in Bioengineering and Biotechnology*, **2018**, 6, 78	5.8	35
22	Energy Efficient Phosphorus Recovery by Microbial Electrolysis Cell Induced Calcium Phosphate Precipitation. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 8860-8867	8.3	33
21	Calcium addition to increase the production of phosphate granules in anaerobic treatment of black water. *Water Research*, **2018**, 130, 333-342	12.5	32
20	Granular sludge formation and characterization in a chain elongation process. *Process Biochemistry*, **2016**, 51, 1594-1598	4.8	31
19	Hydrogen as electron donor for copper removal in bioelectrochemical systems. *International Journal of Hydrogen Energy*, **2016**, 41, 5758-5764	6.7	31
18	Enhanced selectivity to butyrate and caproate above acetate in continuous bioelectrochemical chain elongation from CO2: Steering with CO2 loading rate and hydraulic retention time. *Bioresource Technology Reports*, **2019**, 7, 100284	4.1	30
17	Competition between Methanogens and Acetogens in Biocathodes: A Comparison between Potentiostatic and Galvanostatic Control. *International Journal of Molecular Sciences*, **2017**, 18,	6.3	30
16	Reduction of pH buffer requirement in bioelectrochemical systems. *Environmental Science & Technology*, **2010**, 44, 8259-63	10.3	28
15	Microbial Rechargeable Battery: Energy Storage and Recovery through Acetate. *Environmental Science and Technology Letters*, **2016**, 3, 144-149	11	22
14	Electrochemical and microbiological characterization of single carbon granules in a multi-anode microbial fuel cell. *Journal of Power Sources*, **2019**, 435, 126514	8.9	20
13	Activated Carbon Mixed with Marine Sediment is Suitable as Bioanode Material for Spartina anglica Sediment/Plant Microbial Fuel Cell: Plant Growth, Electricity Generation, and Spatial Microbial Community Diversity. *Water (Switzerland)*, **2019**, 11, 1810	3	16
12	In situ Biofilm Quantification in Bioelectrochemical Systems by using Optical Coherence Tomography. *ChemSusChem*, **2018**, 11, 2171-2178	8.3	16
11	The granular capacitive moving bed reactor for the scale up of bioanodes. *Journal of Chemical Technology and Biotechnology*, **2019**, 94, 2738-2748	3.5	11

List of Publications

10	Competition of electrogens with methanogens for hydrogen in bioanodes. *Water Research*, **2020**, 170, 115292	12.5	9
9	Bioelectrochemical Chain Elongation of Short-Chain Fatty Acids Creates Steering Opportunities for Selective Formation of n-Butyrate, n-Valerate or n-Caproate. *ChemistrySelect*, **2020**, 5, 9127-9133	1.8	7
8	Comparison of Two Sustainable Counter Electrodes for Energy Storage in the Microbial Rechargeable Battery. *ChemElectroChem*, **2019**, 6, 2464-2473	4.3	6
7	Water-Based Synthesis of Hydrophobic Ionic Liquids [N][oleate] and [P][oleate] and their Bioprocess Compatibility. *ChemistryOpen*, **2018**, 7, 878-884	2.3	4
6	Making the best use of capacitive current: Comparison between fixed and moving granular bioanodes. *Journal of Power Sources*, **2021**, 489, 229453	8.9	3
5	Reactor microbiome enriches vegetable oil with n-caproate and n-caprylate for potential functionalized feed additive production via extractive lactate-based chain elongation. *Biotechnology for Biofuels*, **2021**, 14, 232	7.8	3
4	Improving the discharge of capacitive granules in a moving bed reactor. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105556	6.8	2
3	Cyclic Voltammetry is Invasive on Microbial Electrosynthesis. *ChemElectroChem*, **2021**, 8, 3384-3396	4.3	1
2	Methane Production at Biocathodes **2020**, 129-159		0
1	Bio-electrochemical degradability of prospective wastewaters to determine their ammonium recovery potential. *Sustainable Energy Technologies and Assessments*, **2021**, 47, 101423	4.7	