Peter Clauwaert

List of Publications by Year
in descending order

41 papers	4,720 citations	201385 27 h-index	288905 40 g-index
41 all docs	41 docs citations	41 times ranked	3569 citing authors

#	Article	IF	Citations
1	Biological Denitrification in Microbial Fuel Cells. Environmental Science & Technology, 2007, 41, 3354-3360.	4.6	739
2	Tubular Microbial Fuel Cells for Efficient Electricity Generation. Environmental Science & Technology, 2005, 39, 8077-8082.	4.6	597
3	Minimizing losses in bio-electrochemical systems: the road to applications. Applied Microbiology and Biotechnology, 2008, 79, 901-913.	1.7	382
4	Microbial Fuel Cells for Sulfide Removalâ€. Environmental Science & Technology, 2006, 40, 5218-5224.	4.6	366
5	Open Air Biocathode Enables Effective Electricity Generation with Microbial Fuel Cells. Environmental Science & Technology, 2007, 41, 7564-7569.	4.6	359
6	Metabolites produced by Pseudomonas sp. enable a Gram-positive bacterium to achieve extracellular electron transfer. Applied Microbiology and Biotechnology, 2008, 77, 1119-1129.	1.7	272
7	Cathodic oxygen reduction catalyzed by bacteria in microbial fuel cells. ISME Journal, 2008, 2, 519-527.	4.4	268
8	Methanogenesis in membraneless microbial electrolysis cells. Applied Microbiology and Biotechnology, 2009, 82, 829-836.	1.7	265
9	Bacterial community structure corresponds to performance during cathodic nitrate reduction. ISME Journal, 2010, 4, 1443-1455.	4.4	137
10	Bioelectrochemical Perchlorate Reduction in a Microbial Fuel Cell. Environmental Science & Technology, 2010, 44, 4685-4691.	4.6	137
11	Strategies to mitigate N2O emissions from biological nitrogen removal systems. Current Opinion in Biotechnology, 2012, 23, 474-482.	3.3	133
12	High shear enrichment improves the performance of the anodophilic microbial consortium in a microbial fuel cell. Microbial Biotechnology, 2008, 1, 487-496.	2.0	128
13	Enhanced nitrogen removal in bio-electrochemical systems by pH control. Biotechnology Letters, 2009, 31, 1537-1543.	1.1	87
14	Used water and nutrients: Recovery perspectives in a â€˜panta rheiâ€™ context. Bioresource Technology, 2016, 215, 199-208.	4.8	79
15	Litre-scale microbial fuel cells operated in a complete loop. Applied Microbiology and Biotechnology, 2009, 83, 241-247.	1.7	65
16	Nitrogen cycling in Bioregenerative Life Support Systems: Challenges for waste refinery and food production processes. Progress in Aerospace Sciences, 2017, 91, 87-98.	6.3	65
17	Biocathodic Nitrous Oxide Removal in Bioelectrochemical Systems. Environmental Science & Technology, 2011, 45, 10557-10566.	4.6	54
18	Bio-electrochemical COD removal for energy-efficient, maximum and robust nitrogen recovery from urine through membrane aerated nitrification. Water Research, 2020, 185, 116223.	5.3	54

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19	Oxygen-reducing microbial cathodes monitoring toxic shocks in tap water. Biosensors and Bioelectronics, 2019, 132, 115-121.	5.3	53
20	Nitrification and microalgae cultivation for two-stage biological nutrient valorization from source separated urine. Bioresource Technology, 2016, 211, 41-50.	4.8	52
21	Refinery and concentration of nutrients from urine with electrodialysis enabled by upstream precipitation and nitrification. Water Research, 2018, 144, 76-86.	5.3	51
22	Adapting a denitrifying biocathode for perchlorate reduction. Water Science and Technology, 2008, 58, 1941-1946.	1.2	44
23	Energy recovery from energy rich vegetable products with microbial fuel cells. Biotechnology Letters, 2008, 30, 1947-1951.	1.1	40
24	Dehalogenation of environmental pollutants in microbial electrolysis cells with biogenic palladium nanoparticles. Biotechnology Letters, 2011, 33, 89-95.	1.1	39
25	Electrochemical tap water softening: A zero chemical input approach. Water Research, 2020, 169, 115263.	5.3	37
26	Microbial Protein out of Thin Air: Fixation of Nitrogen Gas by an Autotrophic Hydrogen-Oxidizing Bacterial Enrichment. Environmental Science & Technology, 2020, 54, 3609-3617.	4.6	35
27	Electrochemically Induced Precipitation Enables Fresh Urine Stabilization and Facilitates Source Separation. Environmental Science & Technology, 2020, 54, 3618-3627.	4.6	28
28	Sanitation of blackwater via sequential wetland and electrochemical treatment. Npj Clean Water, 2018, 1, .	3.1	24
29	Nitrogen cycle microorganisms can be reactivated after Space exposure. Scientific Reports, 2018, 8, 13783.	1.6	16
30	Sub- and supercritical water oxidation of anaerobic fermentation sludge for carbon and nitrogen recovery in a regenerative life support system. Waste Management, 2018, 77, 268-275.	3.7	16
31	An Appraisal of Urine Derivatives Integrated in the Nitrogen and Phosphorus Inputs of a Lettuce Soilless Cultivation System. Sustainability, 2021, 13, 4218.	1.6	15
32	Metabolic and Proteomic Responses to Salinity in Synthetic Nitrifying Communities of Nitrosomonas spp. and Nitrobacter spp.. Frontiers in Microbiology, 2018, 9, 2914.	1.5	14
33	Urine nitrification with a synthetic microbial community. Systematic and Applied Microbiology, 2019, 42, 126021.	1.2	12
34	Reactivation of Microbial Strains and Synthetic Communities After a Spaceflight to the International Space Station: Corroborating the Feasibility of Essential Conversions in the MELiSSA Loop. Astrobiology, 2019, 19, 1167-1176.	1.5	9
35	Media Optimization, Strain Compatibility, and Low-Shear Modeled Microgravity Exposure of Synthetic Microbial Communities for Urine Nitrification in Regenerative Life-Support Systems. Astrobiology, 2019, 19, 1353-1362.	1.5	9
36	Electrochemical In Situ pH Control Enables Chemical-Free Full Urine Nitrification with Concomitant Nitrate Extraction. Environmental Science & Technology, 2021, 55, 8287-8298.	4.6	9

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37	Ureolytic Activity and Its Regulation in <i>Vibrio campbellii</i> and <i>Vibrio harveyi</i> in Relation to Nitrogen Recovery from Human Urine. Environmental Science & Technology, 2017, 51, 13335-13343.	4.6	8
38	Root-Associated Bacterial Community Shifts in Hydroponic Lettuce Cultured with Urine-Derived Fertilizer. Microorganisms, 2021, 9, 1326.	1.6	8
39	Microbial Fuel Cells as an Engineered Ecosystem. , 0, , 307-320.		7
40	Assessment of carbon recovery from solid organic wastes by supercritical water oxidation for a regenerative life support system. Environmental Science and Pollution Research, 2020, 27, 8260-8270.	2.7	5
41	Electrochemical and phylogenetic comparisons of oxygen-reducing electroautotrophic communities. Biosensors and Bioelectronics, 2021, 171, 112700.	5.3	2