

Korneel Rabaey

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.

242
papers

28,043
citations

76
h-index

166
g-index

253
ext. papers

31,335
ext. citations

9.4
avg, IF

7.41
L-index

#	Paper	IF	Citations
242	A review on ion-exchange nanofiber membranes: properties, structure and application in electrochemical (waste)water treatment. <i>Separation and Purification Technology</i> , 2022 , 287, 120529	8.3	2
241	Methylotrophs: from C1 compounds to food.. <i>Current Opinion in Biotechnology</i> , 2022 , 75, 102685	11.4	0
240	In silico assessment of household level closed water cycles: Towards extreme decentralization. <i>Environmental Science and Ecotechnology</i> , 2022 , 10, 100148	7.4	0
239	Electrochemical codeposition of arsenic from acidic copper sulfate baths: The implications for sustainable copper electrometallurgy. <i>Minerals Engineering</i> , 2022 , 176, 107312	4.9	1
238	Ammonia recovery from brines originating from a municipal wastewater ion exchange process and valorization of recovered nitrogen into microbial protein. <i>Chemical Engineering Journal</i> , 2022 , 427, 130896	14.7	5
237	Producing microbial-based protein from reactive nitrogen recovered from wastewater 2022 , 223-244		
236	Resource recovery from municipal wastewater: what and how much is there? 2022 , 1-19		
235	The third route: A techno-economic evaluation of extreme water and wastewater decentralization.. <i>Water Research</i> , 2022 , 218, 118408	12.5	0
234	High rate production of concentrated sulfides from metal bearing wastewater in an expanded bed hydrogenotrophic sulfate reducing bioreactor. <i>Environmental Science and Ecotechnology</i> , 2022 , 100173	7.4	0
233	Lignocellulose Fermentation Products Generated by Giant Panda Gut Microbiomes Depend Ultimately on pH Rather than Portion of Bamboo: A Preliminary Study. <i>Microorganisms</i> , 2022 , 10, 978	4.9	
232	Impact of Periodic Polarization on Groundwater Denitrification in Bioelectrochemical Systems. <i>Environmental Science & Technology</i> , 2021 , 55, 15371-15379	10.3	2
231	Production of microbial protein from fermented grass. <i>Chemical Engineering Journal</i> , 2021 , 433, 133631	14.7	1
230	Valorization of the organic fraction of municipal solid waste for fumaric acid production and electrochemical membrane extraction using <i>Candida blankii</i> . <i>Bioresource Technology Reports</i> , 2021 , 17, 100900	4.1	
229	A Scalable 128-Channel, Time-Multiplexed Potentiostat for Parallel Electrochemical Experiments. <i>IEEE Transactions on Circuits and Systems I: Regular Papers</i> , 2021 , 68, 1068-1079	3.9	4
228	Cow manure stabilizes anaerobic digestion of cocoa waste. <i>Waste Management</i> , 2021 , 126, 508-516	8.6	6
227	Directional Selection of Microbial Community Reduces Propionate Accumulation in Glycerol and Glucose Anaerobic Bioconversion Under Elevated pCO ₂ . <i>Frontiers in Microbiology</i> , 2021 , 12, 675763	5.7	1
226	Hydrogen peroxide in bioelectrochemical systems negatively affects microbial current generation. <i>Journal of Applied Electrochemistry</i> , 2021 , 51, 1463-1478	2.6	2

225	Electrochemical In Situ pH Control Enables Chemical-Free Full Urine Nitrification with Concomitant Nitrate Extraction. <i>Environmental Science & Technology</i> , 2021 , 55, 8287-8298	10.3	2
224	Lignin Aromatics to PHA Polymers: Nitrogen and Oxygen Are the Key Factors for Pseudomonas. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 10579-10590	8.3	6
223	Assessing the potential for up-cycling recovered resources from anaerobic digestion through microbial protein production. <i>Microbial Biotechnology</i> , 2021 , 14, 897-910	6.3	8
222	Stainless steel substrate pretreatment effects on copper nucleation and stripping during copper electrowinning. <i>Journal of Applied Electrochemistry</i> , 2021 , 51, 219-233	2.6	3
221	Biochar and activated carbon enhance ethanol conversion and selectivity to caproic acid by Clostridium kluyveri. <i>Bioresource Technology</i> , 2021 , 319, 124236	11	11
220	Effect of speciation and composition on the kinetics and precipitation of arsenic sulfide from industrial metallurgical wastewater. <i>Journal of Hazardous Materials</i> , 2021 , 409, 124418	12.8	16
219	Production and extraction of medium chain carboxylic acids at a semi-pilot scale. <i>Chemical Engineering Journal</i> , 2021 , 416, 127886	14.7	17
218	A chip-based 128-channel potentiostat for high-throughput studies of bioelectrochemical systems: Optimal electrode potentials for anodic biofilms. <i>Biosensors and Bioelectronics</i> , 2021 , 174, 112813	11.8	12
217	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
216	Electrochemical and phylogenetic comparisons of oxygen-reducing electroautotrophic communities. <i>Biosensors and Bioelectronics</i> , 2021 , 171, 112700	11.8	2
215	From Biogas and Hydrogen to Microbial Protein Through Co-Cultivation of Methane and Hydrogen Oxidizing Bacteria. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 733753	5.8	3
214	Copper and zinc extraction from automobile shredder residues via an integrated electrodeposition and crystallization process. <i>Resources, Conservation and Recycling</i> , 2021 , 172, 105672	11.9	2
213	Empowering electroactive microorganisms for soil remediation: Challenges in the bioelectrochemical removal of petroleum hydrocarbons. <i>Chemical Engineering Journal</i> , 2021 , 419, 130008	14.7	9
212	Boron extraction using selective ion exchange resins enables effective magnesium recovery from lithium rich brines with minimal lithium loss. <i>Separation and Purification Technology</i> , 2021 , 275, 119177	8.3	3
211	Continuous H ₂ /CO fermentation for acetic acid production under transient and continuous sulfide inhibition. <i>Chemosphere</i> , 2021 , 285, 131536	8.4	0
210	Estimation of pathogenic potential of an environmental Pseudomonas aeruginosa isolate using comparative genomics. <i>Scientific Reports</i> , 2021 , 11, 1370	4.9	2
209	Electrified bioreactors: the next power-up for biometallurgical wastewater treatment.. <i>Microbial Biotechnology</i> , 2021 ,	6.3	1
208	Integrating anaerobic digestion and slow pyrolysis improves the product portfolio of a cocoa waste biorefinery. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 3712-3725	5.8	21

207	Ethanol:propionate ratio drives product selectivity in odd-chain elongation with <i>Clostridium kluyveri</i> and mixed communities. <i>Bioresource Technology</i> , 2020 , 313, 123651	11	9
206	Open microbiome dominated by <i>Clostridium</i> and <i>Eubacterium</i> converts methanol into i-butyrate and n-butyrate. <i>Applied Microbiology and Biotechnology</i> , 2020 , 104, 5119-5131	5.7	10
205	Homoacetogenesis and microbial community composition are shaped by pH and total sulfide concentration. <i>Microbial Biotechnology</i> , 2020 , 13, 1026-1038	6.3	7
204	An Affordable Multichannel Potentiostat with 128 Individual Stimulation and Sensing Channels 2020 ,		4
203	Electrochemically Induced Precipitation Enables Fresh Urine Stabilization and Facilitates Source Separation. <i>Environmental Science & Technology</i> , 2020 , 54, 3618-3627	10.3	13
202	Enrichment and characterisation of ethanol chain elongating communities from natural and engineered environments. <i>Scientific Reports</i> , 2020 , 10, 3682	4.9	16
201	Covalent triazine framework/carbon nanotube hybrids enabling selective reduction of CO ₂ to CO at low overpotential. <i>Green Chemistry</i> , 2020 , 22, 3095-3103	10	8
200	Microbial electrochemistry for bioremediation. <i>Environmental Science and Ecotechnology</i> , 2020 , 1, 100013	3.4	45
199	Electrifying Enzymatic Bioproduction. <i>Joule</i> , 2020 , 4, 16-18	27.8	2
198	gen. nov., sp. nov., a Ubiquitous "Most-Wanted" Core Bacterial Taxon from Municipal Wastewater Treatment Plants. <i>Applied and Environmental Microbiology</i> , 2020 , 86,	4.8	11
197	Substrate-Dependent Fermentation of Bamboo in Giant Panda Gut Microbiomes: Leaf Primarily to Ethanol and Pith to Lactate. <i>Frontiers in Microbiology</i> , 2020 , 11, 530	5.7	3
196	Electrochemical tap water softening: A zero chemical input approach. <i>Water Research</i> , 2020 , 169, 115263	12.5	16
195	Membrane electrolysis for separation of cobalt from terephthalic acid industrial wastewater. <i>Hydrometallurgy</i> , 2020 , 191, 105216	4	7
194	Electrochemical treatment of industrial sulfidic spent caustic streams for sulfide removal and caustic recovery. <i>Journal of Hazardous Materials</i> , 2020 , 388, 121770	12.8	8
193	Microbial protein production from methane via electrochemical biogas upgrading. <i>Chemical Engineering Journal</i> , 2020 , 391, 123625	14.7	18
192	The type of microorganism and substrate determines the odor fingerprint of dried bacteria targeting microbial protein production. <i>FEMS Microbiology Letters</i> , 2020 , 367,	2.9	6
191	The third route: Using extreme decentralization to create resilient urban water systems. <i>Water Research</i> , 2020 , 185, 116276	12.5	9
190	Membrane electrolysis for the removal of Na ⁺ from brines for the subsequent recovery of lithium salts. <i>Separation and Purification Technology</i> , 2020 , 252, 117410	8.3	5

189	Lithium carbonate recovery from brines using membrane electrolysis. <i>Journal of Membrane Science</i> , 2020 , 615, 118416	9.6	7
188	Impact of substrate and growth conditions on microbial protein production and composition. <i>Bioresource Technology</i> , 2020 , 317, 124021	11	8
187	Mildly acidic pH selects for chain elongation to caproic acid over alternative pathways during lactic acid fermentation. <i>Water Research</i> , 2020 , 186, 116396	12.5	35
186	Bio-electrochemical COD removal for energy-efficient, maximum and robust nitrogen recovery from urine through membrane aerated nitrification. <i>Water Research</i> , 2020 , 185, 116223	12.5	25
185	Direct and Indirect Effects of Increased CO Partial Pressure on the Bioenergetics of Syntrophic Propionate and Butyrate Conversion. <i>Environmental Science & Technology</i> , 2020 , 54, 12583-12592	10.3	13
184	The hydrogen gas bio-based economy and the production of renewable building block chemicals, food and energy. <i>New Biotechnology</i> , 2020 , 55, 12-18	6.4	32
183	Microbial electrosynthesis from CO: forever a promise?. <i>Current Opinion in Biotechnology</i> , 2020 , 62, 48-57	11.4	126
182	Mainstream Ammonium Recovery to Advance Sustainable Urban Wastewater Management. <i>Environmental Science & Technology</i> , 2019 , 53, 11066-11079	10.3	50
181	Full-scale investigation of in-situ iron and alkalinity generation for efficient sulfide control. <i>Water Research</i> , 2019 , 167, 115032	12.5	8
180	Fruity flavors from waste: A novel process to upgrade crude glycerol to ethyl valerate. <i>Bioresource Technology</i> , 2019 , 289, 121574	11	13
179	Direct electrochemical extraction increases microbial succinic acid production from spent sulphite liquor. <i>Green Chemistry</i> , 2019 , 21, 2401-2411	10	11
178	A Current-Driven Six-Channel Potentiostat for Rapid Performance Characterization of Microbial Electrolysis Cells. <i>IEEE Transactions on Instrumentation and Measurement</i> , 2019 , 68, 4694-4702	5.2	7
177	Reversible Effects of Periodic Polarization on Anodic Electroactive Biofilms. <i>ChemElectroChem</i> , 2019 , 6, 1921-1925	4.3	10
176	Oxygen-reducing microbial cathodes monitoring toxic shocks in tap water. <i>Biosensors and Bioelectronics</i> , 2019 , 132, 115-121	11.8	31
175	Membrane electrolysis for the removal of Mg and Ca from lithium rich brines. <i>Water Research</i> , 2019 , 154, 117-124	12.5	34
174	Reactors for Microbial Electrobiotechnology. <i>Advances in Biochemical Engineering/Biotechnology</i> , 2019 , 167, 231-271	1.7	8
173	High-rate activated sludge systems combined with dissolved air flotation enable effective organics removal and recovery. <i>Bioresource Technology</i> , 2019 , 291, 121833	11	15
172	Granular fermentation enables high rate caproic acid production from solid-free thin stillage. <i>Green Chemistry</i> , 2019 , 21, 1330-1339	10	34

171	A 64-channel, 1.1-pA-accurate On-chip Potentiostat for Parallel Electrochemical Monitoring 2019 ,		4
170	Membrane stripping enables effective electrochemical ammonia recovery from urine while retaining microorganisms and micropollutants. <i>Water Research</i> , 2019 , 150, 349-357	12.5	31
169	Anode materials for sulfide oxidation in alkaline wastewater: An activity and stability performance comparison. <i>Water Research</i> , 2019 , 149, 111-119	12.5	12
168	An <i>Acetobacterium</i> strain isolated with metallic iron as electron donor enhances iron corrosion by a similar mechanism as <i>Sporomusa sphaeroides</i> . <i>FEMS Microbiology Ecology</i> , 2019 , 95,	4.3	22
167	Anaerobic ureolysis of source-separated urine for NH recovery enables direct removal of divalent ions at the toilet. <i>Water Research</i> , 2019 , 148, 97-105	12.5	14
166	Membrane electrolysis-assisted CO ₂ and H ₂ S extraction as innovative pretreatment method for biological biogas upgrading. <i>Chemical Engineering Journal</i> , 2019 , 361, 1479-1486	14.7	13
165	The Urgent Need to Re-engineer Nitrogen-Efficient Food Production for the Planet 2018 , 35-69		12
164	Growth and current production of mixed culture anodic biofilms remain unaffected by sub-microscale surface roughness. <i>Bioelectrochemistry</i> , 2018 , 122, 213-220	5.6	10
163	Metal recovery by microbial electro-metallurgy. <i>Progress in Materials Science</i> , 2018 , 94, 435-461	42.2	86
162	Upgrading the value of anaerobic digestion via chemical production from grid injected biomethane. <i>Energy and Environmental Science</i> , 2018 , 11, 1788-1802	35.4	64
161	Effect of the anode potential on the physiology and proteome of <i>Shewanella oneidensis</i> MR-1. <i>Bioelectrochemistry</i> , 2018 , 119, 172-179	5.6	18
160	Carbon emission avoidance and capture by producing in-reactor microbial biomass based food, feed and slow release fertilizer: Potentials and limitations. <i>Science of the Total Environment</i> , 2018 , 644, 1525-1530	10.2	22
159	A Novel <i>Shewanella</i> Isolate Enhances Corrosion by Using Metallic Iron as the Electron Donor with Fumarate as the Electron Acceptor. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	35
158	A novel high-throughput method for kinetic characterisation of anaerobic bioproduction strains, applied to <i>Clostridium kluyveri</i> . <i>Scientific Reports</i> , 2018 , 8, 9724	4.9	26
157	Porous nickel hollow fiber cathodes coated with CNTs for efficient microbial electrosynthesis of acetate from CO ₂ using <i>Sporomusa ovata</i> . <i>Journal of Materials Chemistry A</i> , 2018 , 6, 17201-17211	13	57
156	Ionic liquid ion exchange: exclusion from strong interactions condemns cations to the most weakly interacting anions and dictates reaction equilibrium. <i>Green Chemistry</i> , 2018 , 20, 4277-4286	10	24
155	Periodic polarization of electroactive biofilms increases current density and charge carriers concentration while modifying biofilm structure. <i>Biosensors and Bioelectronics</i> , 2018 , 121, 183-191	11.8	29
154	Sanitation of blackwater via sequential wetland and electrochemical treatment. <i>Npj Clean Water</i> , 2018 , 1,	11.2	11

153	Anode potential selection for sulfide removal in contaminated marine sediments. <i>Journal of Hazardous Materials</i> , 2018 , 360, 498-503	12.8	5
152	Cocoa residues as viable biomass for renewable energy production through anaerobic digestion. <i>Bioresource Technology</i> , 2018 , 265, 568-572	11	10
151	Decoupling Livestock from Land Use through Industrial Feed Production Pathways. <i>Environmental Science & Technology</i> , 2018 , 52, 7351-7359	10.3	76
150	Combined extrusion and alkali pretreatment improves grass storage towards fermentation and anaerobic digestion. <i>Biomass and Bioenergy</i> , 2018 , 119, 121-127	5.3	6
149	Membrane Electrolysis Assisted Gas Fermentation for Enhanced Acetic Acid Production. <i>Frontiers in Energy Research</i> , 2018 , 6,	3.8	16
148	Interfacing anaerobic digestion with (bio)electrochemical systems: Potentials and challenges. <i>Water Research</i> , 2018 , 146, 244-255	12.5	85
147	Capture-Ferment-Upgrade: A Three-Step Approach for the Valorization of Sewage Organics as Commodities. <i>Environmental Science & Technology</i> , 2018 , 52, 6729-6742	10.3	62
146	Rapid and Quantitative Assessment of Redox Conduction Across Electroactive Biofilms by using Double Potential Step Chronoamperometry. <i>ChemElectroChem</i> , 2017 , 4, 1026-1036	4.3	34
145	Electrobioremediation of oil spills. <i>Water Research</i> , 2017 , 114, 351-370	12.5	81
144	Electrochemical oxidation of iron and alkalinity generation for efficient sulfide control in sewers. <i>Water Research</i> , 2017 , 118, 114-120	12.5	28
143	Nitrogen cycling in Bioregenerative Life Support Systems: Challenges for waste refinery and food production processes. <i>Progress in Aerospace Sciences</i> , 2017 , 91, 87-98	8.8	41
142	The type of ion selective membrane determines stability and production levels of microbial electrosynthesis. <i>Bioresource Technology</i> , 2017 , 224, 358-364	11	33
141	Simultaneous use of caustic and oxygen for efficient sulfide control in sewers. <i>Science of the Total Environment</i> , 2017 , 601-602, 776-783	10.2	16
140	Microbes and the Next Nitrogen Revolution. <i>Environmental Science & Technology</i> , 2017 , 51, 7297-7303	10.3	63
139	Continuous long-term electricity-driven bioproduction of carboxylates and isopropanol from CO ₂ with a mixed microbial community. <i>Journal of CO₂ Utilization</i> , 2017 , 20, 141-149	7.6	97
138	A Gibbs Free Energy-Based Assessment of Microbial Electrocatalysis. <i>Trends in Biotechnology</i> , 2017 , 35, 393-406	15.1	25
137	A novel tubular microbial electrolysis cell for high rate hydrogen production. <i>Journal of Power Sources</i> , 2017 , 356, 484-490	8.9	73
136	Upgrading syngas fermentation effluent using in a continuous fermentation. <i>Biotechnology for Biofuels</i> , 2017 , 10, 83	7.8	70

135	The Chemical Route to a Carbon Dioxide Neutral World. <i>ChemSusChem</i> , 2017 , 10, 1039-1055	8.3	129
134	Concomitant Leaching and Electrochemical Extraction of Rare Earth Elements from Monazite. <i>Environmental Science & Technology</i> , 2017 , 51, 1654-1661	10.3	67
133	Bridging spatially segregated redox zones with a microbial electrochemical snorkel triggers biogeochemical cycles in oil-contaminated River Tyne (UK) sediments. <i>Water Research</i> , 2017 , 127, 11-21	12.5	25
132	Electrochemical Production of Magnetite Nanoparticles for Sulfide Control in Sewers. <i>Environmental Science & Technology</i> , 2017 , 51, 12229-12234	10.3	7
131	Electricity-assisted production of caproic acid from grass. <i>Biotechnology for Biofuels</i> , 2017 , 10, 180	7.8	55
130	Electroactive Biofilms for Sensing: Reflections and Perspectives. <i>ACS Sensors</i> , 2017 , 2, 1072-1085	9.2	54
129	Electrochemical Ammonia Recovery from Source-Separated Urine for Microbial Protein Production. <i>Environmental Science & Technology</i> , 2017 , 51, 13143-13150	10.3	55
128	Efficient molasses fermentation under high salinity by inocula of marine and terrestrial origin. <i>Biotechnology for Biofuels</i> , 2017 , 10, 23	7.8	14
127	Successive parabolic interpolation as extremum seeking control for microbial fuel & electrolysis cells 2017 ,		1
126	A Group IV Species Dominates and Suppresses a Mixed Culture Fermentation by Tolerance to Medium Chain Fatty Acids Products. <i>Frontiers in Bioengineering and Biotechnology</i> , 2017 , 5, 8	5.8	46
125	Materials and Their Surface Modification for Use as Anode in Microbial Bioelectrochemical Systems 2017 , 403-427		4
124	Biofilm Formation by <i>Clostridium ljungdahlii</i> Is Induced by Sodium Chloride Stress: Experimental Evaluation and Transcriptome Analysis. <i>PLoS ONE</i> , 2017 , 12, e0170406	3.7	42
123	Anodes Stimulate Anaerobic Toluene Degradation via Sulfur Cycling in Marine Sediments. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 297-307	4.8	62
122	The electron donating capacity of biochar is dramatically underestimated. <i>Scientific Reports</i> , 2016 , 6, 32870	4.9	75
121	Extraction and Esterification of Low-Titer Short-Chain Volatile Fatty Acids from Anaerobic Fermentation with Ionic Liquids. <i>ChemSusChem</i> , 2016 , 9, 2059-63	8.3	30
120	Redox dependent metabolic shift in by extracellular electron supply. <i>Biotechnology for Biofuels</i> , 2016 , 9, 249	7.8	42
119	Anoxic metabolism and biochemical production in <i>Pseudomonas putida</i> F1 driven by a bioelectrochemical system. <i>Biotechnology for Biofuels</i> , 2016 , 9, 39	7.8	55
118	Electrochemical sulfide removal and caustic recovery from spent caustic streams. <i>Water Research</i> , 2016 , 92, 38-43	12.5	30

117	Enhanced Product Recovery from Glycerol Fermentation into 3-Carbon Compounds in a Bioelectrochemical System Combined with Extraction. <i>Frontiers in Bioengineering and Biotechnology</i> , 2016 , 4, 73	5.8	13
116	Genome-centric resolution of microbial diversity, metabolism and interactions in anaerobic digestion. <i>Environmental Microbiology</i> , 2016 , 18, 3144-58	5.2	85
115	Direct anodic hydrochloric acid and cathodic caustic production during water electrolysis. <i>Scientific Reports</i> , 2016 , 6, 20494	4.9	12
114	Anode potential influences the structure and function of anodic electrode and electrolyte-associated microbiomes. <i>Scientific Reports</i> , 2016 , 6, 39114	4.9	44
113	Pyrolytic carbon-coated stainless steel felt as a high-performance anode for bioelectrochemical systems. <i>Bioresource Technology</i> , 2016 , 211, 664-8	11	37
112	Electro-Fermentation - Merging Electrochemistry with Fermentation in Industrial Applications. <i>Trends in Biotechnology</i> , 2016 , 34, 866-878	15.1	165
111	High salinity in molasses wastewaters shifts anaerobic digestion to carboxylate production. <i>Water Research</i> , 2016 , 98, 293-301	12.5	45
110	Production of carboxylates from high rate activated sludge through fermentation. <i>Bioresource Technology</i> , 2016 , 217, 165-72	11	25
109	Acetate accumulation enhances mixed culture fermentation of biomass to lactic acid. <i>Applied Microbiology and Biotechnology</i> , 2016 , 100, 8337-48	5.7	16
108	A review of sustainable sanitation systems in Africa. <i>Reviews in Environmental Science and Biotechnology</i> , 2016 , 15, 465-478	13.9	33
107	Product Diversity Linked to Substrate Usage in Chain Elongation by Mixed-Culture Fermentation. <i>Environmental Science & Technology</i> , 2016 , 50, 6467-76	10.3	66
106	Electrochemical nutrient recovery enables ammonia toxicity control and biogas desulfurization in anaerobic digestion. <i>Environmental Science & Technology</i> , 2015 , 49, 948-55	10.3	62
105	A logical data representation framework for electricity-driven bioproduction processes. <i>Biotechnology Advances</i> , 2015 , 33, 736-44	17.8	145
104	Hydrodynamic chronoamperometry for probing kinetics of anaerobic microbial metabolism--case study of <i>Faecalibacterium prausnitzii</i> . <i>Scientific Reports</i> , 2015 , 5, 11484	4.9	23
103	Selective Enrichment Establishes a Stable Performing Community for Microbial Electrosynthesis of Acetate from CO ₂ . <i>Environmental Science & Technology</i> , 2015 , 49, 8833-43	10.3	189
102	Heat-treated stainless steel felt as scalable anode material for bioelectrochemical systems. <i>Bioresource Technology</i> , 2015 , 195, 46-50	11	59
101	Temperature and solids retention time control microbial population dynamics and volatile fatty acid production in replicated anaerobic digesters. <i>Scientific Reports</i> , 2015 , 5, 8496	4.9	76
100	In-line and selective phase separation of medium-chain carboxylic acids using membrane electrolysis. <i>Chemical Communications</i> , 2015 , 51, 6847-50	5.8	98

99	Engineering electrodes for microbial electrocatalysis. <i>Current Opinion in Biotechnology</i> , 2015 , 33, 149-56	11.4	191
98	Development of bioelectrocatalytic activity stimulates mixed-culture reduction of glycerol in a bioelectrochemical system. <i>Microbial Biotechnology</i> , 2015 , 8, 483-9	6.3	29
97	Integrated Production, Extraction, and Concentration of Acetic Acid from CO ₂ through Microbial Electrosynthesis. <i>Environmental Science and Technology Letters</i> , 2015 , 2, 325-328	11	131
96	Electrochemically driven extraction and recovery of ammonia from human urine. <i>Water Research</i> , 2015 , 87, 367-77	12.5	86
95	Scaling-Free Electrochemical Production of Caustic and Oxygen for Sulfide Control in Sewers. <i>Environmental Science & Technology</i> , 2015 , 49, 11395-402	10.3	4
94	Use of SWATH mass spectrometry for quantitative proteomic investigation of <i>Shewanella oneidensis</i> MR-1 biofilms grown on graphite cloth electrodes. <i>Systematic and Applied Microbiology</i> , 2015 , 38, 135-9	4.2	30
93	Electrochemical Abatement of Hydrogen Sulfide from Waste Streams. <i>Critical Reviews in Environmental Science and Technology</i> , 2015 , 45, 1555-1578	11.1	52
92	Low temperature calcium hydroxide treatment enhances anaerobic methane production from (extruded) biomass. <i>Bioresource Technology</i> , 2015 , 176, 181-8	11	38
91	Global Phosphorus Scarcity and Full-Scale P-Recovery Techniques: A Review. <i>Critical Reviews in Environmental Science and Technology</i> , 2015 , 45, 336-384	11.1	386
90	Evaluating the potential impact of proton carriers on syntrophic propionate oxidation. <i>Scientific Reports</i> , 2015 , 5, 18364	4.9	16
89	Electrochemically and bioelectrochemically induced ammonium recovery. <i>Journal of Visualized Experiments</i> , 2015 , 52405	1.6	10
88	Digestion of high rate activated sludge coupled to biochar formation for soil improvement in the tropics. <i>Water Research</i> , 2015 , 81, 216-22	12.5	16
87	Electrolytic extraction drives volatile fatty acid chain elongation through lactic acid and replaces chemical pH control in thin stillage fermentation. <i>Biotechnology for Biofuels</i> , 2015 , 8, 221	7.8	77
86	Electrolytic membrane extraction enables production of fine chemicals from biorefinery sidestreams. <i>Environmental Science & Technology</i> , 2014 , 48, 7135-42	10.3	86
85	Flame oxidation of stainless steel felt enhances anodic biofilm formation and current output in bioelectrochemical systems. <i>Environmental Science & Technology</i> , 2014 , 48, 7151-6	10.3	105
84	Surfactant treatment of carbon felt enhances anodic microbial electrocatalysis in bioelectrochemical systems. <i>Electrochemistry Communications</i> , 2014 , 39, 1-4	5.1	39
83	Biomass retention on electrodes rather than electrical current enhances stability in anaerobic digestion. <i>Water Research</i> , 2014 , 54, 211-21	12.5	119
82	A critical revisit of the key parameters used to describe microbial electrochemical systems. <i>Electrochimica Acta</i> , 2014 , 140, 191-208	6.7	124

81	Chain elongation in anaerobic reactor microbiomes to recover resources from waste. <i>Current Opinion in Biotechnology</i> , 2014 , 27, 115-22	11.4	232
80	Microbial Fuel Cells as an Engineered Ecosystem 2014 , 307-320		6
79	Bioelectrochemical Systems 2014 , 167-184		
78	Deterministic processes guide long-term synchronised population dynamics in replicate anaerobic digesters. <i>ISME Journal</i> , 2014 , 8, 2015-28	11.9	224
77	Greenhouse gas emissions from rice microcosms amended with a plant microbial fuel cell. <i>Applied Microbiology and Biotechnology</i> , 2014 , 98, 3205-17	5.7	78
76	In-situ caustic generation from sewage: the impact of caustic strength and sewage composition. <i>Water Research</i> , 2013 , 47, 5828-35	12.5	13
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