

Largus Angenent

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190
papers

17,425
citations

65
h-index

130
g-index

208
ext. papers

20,620
ext. citations

9.8
avg, IF

6.94
L-index

#	Paper	IF	Citations
190	Succession of microbial consortia in the developing infant gut microbiome. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108 Suppl 1, 4578-85	11.5	1674
189	Host remodeling of the gut microbiome and metabolic changes during pregnancy. <i>Cell</i> , 2012 , 150, 470-80	16.2	1117
188	A communal catalogue reveals Earth's multiscale microbial diversity. <i>Nature</i> , 2017 , 551, 457-463	50.4	1076
187	Production of bioenergy and biochemicals from industrial and agricultural wastewater. <i>Trends in Biotechnology</i> , 2004 , 22, 477-85	15.1	744
186	Electricity generation from artificial wastewater using an upflow microbial fuel cell. <i>Environmental Science & Technology</i> , 2005 , 39, 5262-7	10.3	599
185	Waste to bioproduct conversion with undefined mixed cultures: the carboxylate platform. <i>Trends in Biotechnology</i> , 2011 , 29, 70-8	15.1	556
184	Application of Bacterial Biocathodes in Microbial Fuel Cells. <i>Electroanalysis</i> , 2006 , 18, 2009-2015	3	437
183	Cathodes as electron donors for microbial metabolism: which extracellular electron transfer mechanisms are involved?. <i>Bioresource Technology</i> , 2011 , 102, 324-33	11	409
182	Impact of training sets on classification of high-throughput bacterial 16s rRNA gene surveys. <i>ISME Journal</i> , 2012 , 6, 94-103	11.9	385
181	An upflow microbial fuel cell with an interior cathode: assessment of the internal resistance by impedance spectroscopy. <i>Environmental Science & Technology</i> , 2006 , 40, 5212-7	10.3	385
180	Biochemical methane potential and biodegradability of complex organic substrates. <i>Bioresource Technology</i> , 2011 , 102, 2255-64	11	378
179	Bacterial community structures are unique and resilient in full-scale bioenergy systems. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 4158-63	11.5	325
178	Microbial electrochemistry and technology: terminology and classification. <i>Energy and Environmental Science</i> , 2015 , 8, 513-519	35.4	306
177	Getting a grip on things: how do communities of bacterial symbionts become established in our intestine?. <i>Nature Immunology</i> , 2004 , 5, 569-73	19.1	302
176	Chain Elongation with Reactor Microbiomes: Open-Culture Biotechnology To Produce Biochemicals. <i>Environmental Science & Technology</i> , 2016 , 50, 2796-810	10.3	281
175	Light energy to bioelectricity: photosynthetic microbial fuel cells. <i>Current Opinion in Biotechnology</i> , 2010 , 21, 259-64	11.4	271
174	Innate and adaptive immunity interact to quench microbiome flagellar motility in the gut. <i>Cell Host and Microbe</i> , 2013 , 14, 571-81	23.4	236

173	Chain elongation in anaerobic reactor microbiomes to recover resources from waste. <i>Current Opinion in Biotechnology</i> , 2014 , 27, 115-22	11.4	232
172	Rapid electron transfer by the carbon matrix in natural pyrogenic carbon. <i>Nature Communications</i> , 2017 , 8, 14873	17.4	223
171	Chain elongation with reactor microbiomes: upgrading dilute ethanol to medium-chain carboxylates. <i>Energy and Environmental Science</i> , 2012 , 5, 8189	35.4	220
170	Methanogenic population dynamics during startup of a full-scale anaerobic sequencing batch reactor treating swine waste. <i>Water Research</i> , 2002 , 36, 4648-54	12.5	198
169	Increased power production from a sediment microbial fuel cell with a rotating cathode. <i>Biosensors and Bioelectronics</i> , 2007 , 22, 3252-5	11.8	186
168	Molecular identification of potential pathogens in water and air of a hospital therapy pool. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2005 , 102, 4860-5	11.5	183
167	Conventional mesophilic vs. thermophilic anaerobic digestion: a trade-off between performance and stability?. <i>Water Research</i> , 2014 , 53, 249-58	12.5	168
166	Self-sustained phototrophic microbial fuel cells based on the synergistic cooperation between photosynthetic microorganisms and heterotrophic bacteria. <i>Environmental Science & Technology</i> , 2009 , 43, 1648-54	10.3	154
165	Sampling methodologies and dosage assessment techniques for submicrometre and ultrafine virus aerosol particles. <i>Journal of Applied Microbiology</i> , 2005 , 99, 1422-34	4.7	148
164	Electric Power Generation from Municipal, Food, and Animal Wastewaters Using Microbial Fuel Cells. <i>Electroanalysis</i> , 2010 , 22, 832-843	3	144
163	Anaerobic fermentation for n-caproic acid production: A review. <i>Process Biochemistry</i> , 2017 , 54, 106-119	4.8	134
162	Long-Term n-Caproic Acid Production from Yeast-Fermentation Beer in an Anaerobic Bioreactor with Continuous Product Extraction. <i>Environmental Science & Technology</i> , 2015 , 49, 8012-21	10.3	134
161	Effect of shear on performance and microbial ecology of continuously stirred anaerobic digesters treating animal manure. <i>Biotechnology and Bioengineering</i> , 2008 , 100, 38-48	4.9	130
160	Conversion of L-lactate into n-caproate by a continuously fed reactor microbiome. <i>Water Research</i> , 2016 , 93, 163-171	12.5	128
159	Molecular analysis of shower curtain biofilm microbes. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 4187-92	4.8	116
158	High n-caprylate productivities and specificities from dilute ethanol and acetate: chain elongation with microbiomes to upgrade products from syngas fermentation. <i>Energy and Environmental Science</i> , 2016 , 9, 3482-3494	35.4	114
157	A Two-Stage Continuous Fermentation System for Conversion of Syngas into Ethanol. <i>Energies</i> , 2013 , 6, 3987-4000	3.1	114
156	Extracellular Electron Uptake: Among Autotrophs and Mediated by Surfaces. <i>Trends in Biotechnology</i> , 2017 , 35, 360-371	15.1	112

155	Development of anaerobic migrating blanket reactor (AMBR), a novel anaerobic treatment system. <i>Water Research</i> , 2001 , 35, 1739-47	12.5	111
154	Coupling hydrothermal liquefaction and anaerobic digestion for energy valorization from model biomass feedstocks. <i>Bioresource Technology</i> , 2017 , 233, 134-143	11	110
153	Bacteria-based AND logic gate: a decision-making and self-powered biosensor. <i>Chemical Communications</i> , 2011 , 47, 3060-2	5.8	107
152	An arsenic-specific biosensor with genetically engineered <i>Shewanella oneidensis</i> in a bioelectrochemical system. <i>Biosensors and Bioelectronics</i> , 2014 , 62, 320-4	11.8	105
151	Upgrading dilute ethanol from syngas fermentation to n-caproate with reactor microbiomes. <i>Bioresource Technology</i> , 2014 , 151, 378-82	11	102
150	Correlation between microbial community and granule conductivity in anaerobic bioreactors for brewery wastewater treatment. <i>Bioresource Technology</i> , 2014 , 174, 306-10	11	101
149	Microbial community dynamics and stability during an ammonia-induced shift to syntrophic acetate oxidation. <i>Applied and Environmental Microbiology</i> , 2014 , 80, 3375-83	4.8	100
148	Carbon recovery by fermentation of CO-rich off gases - Turning steel mills into biorefineries. <i>Bioresource Technology</i> , 2016 , 215, 386-396	11	99
147	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
146	Techno-economic assessment of biomass slow pyrolysis into different biochar and methanol concepts. <i>Fuel</i> , 2014 , 117, 742-748	7.1	98
145	A Narrow pH Range Supports Butanol, Hexanol, and Octanol Production from Syngas in a Continuous Co-culture of and with In-Line Product Extraction. <i>Frontiers in Microbiology</i> , 2016 , 7, 1773	5.7	98
144	Ethanol production in syngas-fermenting <i>Clostridium ljungdahlii</i> is controlled by thermodynamics rather than by enzyme expression. <i>Energy and Environmental Science</i> , 2016 , 9, 2392-2399	35.4	98
143	Biocatalytic reduction of short-chain carboxylic acids into their corresponding alcohols with syngas fermentation. <i>Biotechnology and Bioengineering</i> , 2013 , 110, 1066-77	4.9	95
142	Metabolite-based mutualism between <i>Pseudomonas aeruginosa</i> PA14 and <i>Enterobacter aerogenes</i> enhances current generation in bioelectrochemical systems. <i>Energy and Environmental Science</i> , 2011 , 4, 4550	35.4	94
141	Quorum sensing regulates electric current generation of <i>Pseudomonas aeruginosa</i> PA14 in bioelectrochemical systems. <i>Electrochemistry Communications</i> , 2010 , 12, 459-462	5.1	94
140	Production of drop-in fuels from biomass at high selectivity by combined microbial and electrochemical conversion. <i>Energy and Environmental Science</i> , 2017 , 10, 2231-2244	35.4	88
139	Carbon dioxide addition to microbial fuel cell cathodes maintains sustainable catholyte pH and improves anolyte pH, alkalinity, and conductivity. <i>Environmental Science & Technology</i> , 2010 , 44, 2728-34	10.3	84
138	Temperature-Phased Conversion of Acid Whey Waste Into Medium-Chain Carboxylic Acids via Lactic Acid: No External e-Donor. <i>Joule</i> , 2018 , 2, 280-295	27.8	84

137	Comparison of Illumina paired-end and single-direction sequencing for microbial 16S rRNA gene amplicon surveys. <i>ISME Journal</i> , 2012 , 6, 1273-6	11.9	79
136	A single-culture bioprocess of <i>Methanothermobacter thermoautotrophicus</i> to upgrade digester biogas by CO ₂ -to-CH ₄ conversion with H ₂ . <i>Archaea</i> , 2013 , 2013, 157529	2	79
135	Traits of selected <i>Clostridium</i> strains for syngas fermentation to ethanol. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 531-9	4.9	79
134	<i>Shewanella oneidensis</i> in a lactate-fed pure-culture and a glucose-fed co-culture with <i>Lactococcus lactis</i> with an electrode as electron acceptor. <i>Bioresource Technology</i> , 2011 , 102, 2623-8	11	74
133	Waste Conversion into -Caprylate and -Caproate: Resource Recovery from Wine Lees Using Anaerobic Reactor Microbiomes and In-line Extraction. <i>Frontiers in Microbiology</i> , 2016 , 7, 1892	5.7	74
132	A portable anaerobic microbioreactor reveals optimum growth conditions for the methanogen <i>Methanosaeta concilii</i> . <i>Applied and Environmental Microbiology</i> , 2007 , 73, 1653-8	4.8	72
131	Metabolite transfer with the fermentation product 2,3-butanediol enhances virulence by <i>Pseudomonas aeruginosa</i> . <i>ISME Journal</i> , 2014 , 8, 1210-20	11.9	71
130	Thermophilic anaerobic digestion to increase the net energy balance of corn grain ethanol. <i>Environmental Science & Technology</i> , 2008 , 42, 6723-9	10.3	71
129	Upgrading syngas fermentation effluent using in a continuous fermentation. <i>Biotechnology for Biofuels</i> , 2017 , 10, 83	7.8	70
128	Aerated <i>Shewanella oneidensis</i> in continuously fed bioelectrochemical systems for power and hydrogen production. <i>Biotechnology and Bioengineering</i> , 2010 , 105, 880-8	4.9	70
127	Thermophilic sludge digestion improves energy balance and nutrient recovery potential in full-scale municipal wastewater treatment plants. <i>Bioresource Technology</i> , 2016 , 218, 1237-45	11	69
126	Interaction between temperature and ammonia in mesophilic digesters for animal waste treatment. <i>Water Research</i> , 2009 , 43, 2373-82	12.5	68
125	Inoculum selection influences the biochemical methane potential of agro-industrial substrates. <i>Microbial Biotechnology</i> , 2015 , 8, 776-86	6.3	65
124	Tuning promoter strengths for improved synthesis and function of electron conduits in <i>Escherichia coli</i> . <i>ACS Synthetic Biology</i> , 2013 , 2, 150-9	5.7	65
123	Microbial fuel cell performance with a pressurized cathode chamber. <i>Environmental Science & Technology</i> , 2008 , 42, 8578-84	10.3	62
122	Substrate type drives variation in reactor microbiomes of anaerobic digesters. <i>Bioresource Technology</i> , 2014 , 151, 397-401	11	61
121	Prolonged conversion of n-butyrate to n-butanol with <i>Clostridium saccharoperbutylacetonicum</i> in a two-stage continuous culture with in-situ product removal. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 913-21	4.9	55
120	Endotracheal tube biofilm inoculation of oral flora and subsequent colonization of opportunistic pathogens. <i>International Journal of Medical Microbiology</i> , 2010 , 300, 503-11	3.7	55

119	Development of a highly specific and productive process for n-caproic acid production: applying lessons from methanogenic microbiomes. <i>Water Science and Technology</i> , 2014 , 69, 62-8	2.2	53
118	Simultaneous Quantification of Electron Transfer by Carbon Matrices and Functional Groups in Pyrogenic Carbon. <i>Environmental Science & Technology</i> , 2018 , 52, 8538-8547	10.3	52
117	Effect of the presence of the antimicrobial tylosin in swine waste on anaerobic treatment. <i>Water Research</i> , 2008 , 42, 2377-84	12.5	51
116	Methane suppression by iron and humic acids in soils of the Arctic Coastal Plain. <i>Soil Biology and Biochemistry</i> , 2015 , 83, 176-183	7.5	50
115	Potentially pathogenic bacteria in shower water and air of a stem cell transplant unit. <i>Applied and Environmental Microbiology</i> , 2009 , 75, 5363-72	4.8	50
114	Monitoring granule formation in anaerobic upflow bioreactors using oligonucleotide hybridization probes. <i>Biotechnology and Bioengineering</i> , 2006 , 94, 458-72	4.9	50
113	Airborne virus capture and inactivation by an electrostatic particle collector. <i>Environmental Science & Technology</i> , 2009 , 43, 5940-6	10.3	48
112	Biofuels from pyrolysis in perspective: trade-offs between energy yields and soil-carbon additions. <i>Environmental Science & Technology</i> , 2014 , 48, 6492-9	10.3	45
111	Transcriptional analysis of <i>Shewanella oneidensis</i> MR-1 with an electrode compared to Fe(III)citrate or oxygen as terminal electron acceptor. <i>PLoS ONE</i> , 2012 , 7, e30827	3.7	45
110	Syntrophy via Interspecies H Transfer between and Underlies Their Global Cooccurrence in the Human Gut. <i>MBio</i> , 2020 , 11,	7.8	43
109	Anaerobic migrating blanket reactor treatment of low-strength wastewater at low temperatures. <i>Water Environment Research</i> , 2001 , 73, 567-74	2.8	43
108	Integrating electrochemical, biological, physical, and thermochemical process units to expand the applicability of anaerobic digestion. <i>Bioresource Technology</i> , 2018 , 247, 1085-1094	11	42
107	Microbial diversity and dynamics in multi- and single-compartment anaerobic bioreactors processing sulfate-rich waste streams. <i>Environmental Microbiology</i> , 2007 , 9, 93-106	5.2	42
106	Shaping reactor microbiomes to produce the fuel precursor n-butyrate from pretreated cellulosic hydrolysates. <i>Environmental Science & Technology</i> , 2012 , 46, 10229-38	10.3	41
105	Comparing the inhibitory thresholds of dairy manure co-digesters after prolonged acclimation periods: Part 1--Performance and operating limits. <i>Water Research</i> , 2015 , 87, 446-57	12.5	40
104	Formation of granules and <i>Methanosaeta</i> fibres in an anaerobic migrating blanket reactor (AMBR). <i>Environmental Microbiology</i> , 2004 , 6, 315-22	5.2	40
103	A cost-effective and field-ready potentiostat that poises subsurface electrodes to monitor bacterial respiration. <i>Biosensors and Bioelectronics</i> , 2012 , 32, 309-13	11.8	39
102	Overcoming the energetic limitations of syngas fermentation. <i>Current Opinion in Chemical Biology</i> , 2017 , 41, 84-92	9.7	39

101	Oxygen allows <i>Shewanella oneidensis</i> MR-1 to overcome mediator washout in a continuously fed bioelectrochemical system. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 692-9	4.9	39
100	Bacteria-based biocomputing with Cellular Computing Circuits to sense, decide, signal, and act. <i>Energy and Environmental Science</i> , 2011 , 4, 4907	35.4	39
99	Higher Substrate Ratios of Ethanol to Acetate Steered Chain Elongation toward n-Caprylate in a Bioreactor with Product Extraction. <i>Environmental Science & Technology</i> , 2018 , 52, 13438-13447	10.3	39
98	Power-to-protein: converting renewable electric power and carbon dioxide into single cell protein with a two-stage bioprocess. <i>Energy and Environmental Science</i> , 2019 , 12, 3515-3521	35.4	36
97	A laminar-flow microfluidic device for quantitative analysis of microbial electrochemical activity. <i>ChemSusChem</i> , 2012 , 5, 1119-23	8.3	35
96	Production of medium-chain carboxylic acids by anaerobic fermentation of glycerol using a bioaugmented open culture. <i>Biomass and Bioenergy</i> , 2018 , 118, 1-7	5.3	33
95	Stacked optical waveguide photobioreactor for high density algal cultures. <i>Bioresource Technology</i> , 2014 , 171, 495-9	11	32
94	Oxidizing Electrode Potentials Decrease Current Production and Coulombic Efficiency through Cytochrome c Inactivation in <i>Shewanella oneidensis</i> MR-1. <i>ChemElectroChem</i> , 2014 , 1, 2000-2006	4.3	31
93	Slab waveguide photobioreactors for microalgae based biofuel production. <i>Lab on A Chip</i> , 2012 , 12, 3740-5	4.5	31
92	Comparing the inhibitory thresholds of dairy manure co-digesters after prolonged acclimation periods: Part 2--correlations between microbiomes and environment. <i>Water Research</i> , 2015 , 87, 458-66	12.5	29
91	Toward Electrosynthesis with Uncoupled Extracellular Electron Uptake and Metabolic Growth: Enhancing Current Uptake with <i>Rhodospseudomonas palustris</i> . <i>Environmental Science and Technology Letters</i> , 2014 , 1, 351-355	11	28
90	Performance of electro-spun carbon nanofiber electrodes with conductive poly(3,4-ethylenedioxythiophene) coatings in bioelectrochemical systems. <i>Journal of Power Sources</i> , 2017 , 356, 331-337	8.9	27
89	Aggregation-dependent electron transfer via redox-active biochar particles stimulate microbial ferrihydrite reduction. <i>Science of the Total Environment</i> , 2020 , 703, 135515	10.2	27
88	Potential pathogenic bacteria in metalworking fluids and aerosols from a machining facility. <i>FEMS Microbiology Ecology</i> , 2010 , 74, 643-54	4.3	26
87	Production and physiological responses of heat-stressed lactating dairy cattle to conductive cooling. <i>Journal of Dairy Science</i> , 2015 , 98, 5252-61	4	25
86	Characterization of microbial trophic structures of two anaerobic bioreactors processing sulfate-rich waste streams. <i>Water Research</i> , 2009 , 43, 4451-60	12.5	25
85	Anaerobic digestion of secondary residuals from an anaerobic bioreactor at a brewery to enhance bioenergy generation. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2008 , 35, 321-329	4.2	25
84	Integrating syngas fermentation with the carboxylate platform and yeast fermentation to reduce medium cost and improve biofuel productivity. <i>Environmental Technology (United Kingdom)</i> , 2013 , 34, 1983-94	2.6	24

83	An evaluation of anaerobic co-digestion implementation on New York State dairy farms using an environmental and economic life-cycle framework. <i>Applied Energy</i> , 2018 , 211, 28-40	10.7	24
82	Anaerobic digestion of brewery primary sludge to enhance bioenergy generation: a comparison between low- and high-rate solids treatment and different temperatures. <i>Bioresource Technology</i> , 2010 , 101, 5842-51	11	23
81	Microbial community structure and activity in a compartmentalized, anaerobic bioreactor. <i>Water Environment Research</i> , 2002 , 74, 450-61	2.8	23
80	Techno-economic analysis of a conceptual biofuel production process from bioethylene produced by photosynthetic recombinant cyanobacteria. <i>Green Chemistry</i> , 2016 , 18, 6266-6281	10	21
79	Biotests for hazard assessment of biofuel fermentation. <i>Energy and Environmental Science</i> , 2012 , 5, 9778-9785	5.4	21
78	Effect of an Organic Shock Load on the Stability of an Anaerobic Migrating Blanket Reactor. <i>Journal of Environmental Engineering, ASCE</i> , 2002 , 128, 1109-1120	2	20
77	Optimal intensity and biomass density for biofuel production in a thin-light-path photobioreactor. <i>Environmental Science & Technology</i> , 2015 , 49, 6327-34	10.3	19
76	Pigment-targeted light wavelength and intensity promotes efficient photoautotrophic growth of Cyanobacteria. <i>Bioresource Technology</i> , 2016 , 216, 579-86	11	19
75	Electrolysis within anaerobic bioreactors stimulates breakdown of toxic products from azo dye treatment. <i>Biodegradation</i> , 2015 , 26, 151-60	4.1	18
74	AQDS and Redox-Active NOM Enables Microbial Fe(III)-Mineral Reduction at cm-Scales. <i>Environmental Science & Technology</i> , 2020 , 54, 4131-4139	10.3	18
73	Optimizing Mixed-Culture Bioprocessing To Convert Wastes into Bioenergy	179-194	18
72	Oxygen Tension and Riboflavin Gradients Cooperatively Regulate the Migration of MR-1 Revealed by a Hydrogel-Based Microfluidic Device. <i>Frontiers in Microbiology</i> , 2016 , 7, 1438	5.7	18
71	The fermentation product 2,3-butanediol alters P. aeruginosa clearance, cytokine response and the lung microbiome. <i>ISME Journal</i> , 2016 , 10, 2978-2983	11.9	18
70	Regulated expression of polysaccharide utilization and capsular biosynthesis loci in biofilm and planktonic Bacteroides thetaiotaomicron during growth in chemostats. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 165-73	4.9	17
69	Upgrading sugarcane biorefineries: Acetate addition allows for conversion of fermented sugarcane molasses into high-value medium chain carboxylic acids. <i>Journal of Environmental Chemical Engineering</i> , 2020 , 8, 103649	6.8	17
68	Production and extraction of medium chain carboxylic acids at a semi-pilot scale. <i>Chemical Engineering Journal</i> , 2021 , 416, 127886	14.7	17
67	Nitrate Feed Improves Growth and Ethanol Production of With CO and H ₂ , but Results in Stochastic Inhibition Events. <i>Frontiers in Microbiology</i> , 2020 , 11, 724	5.7	16
66	Power-to-Protein: Carbon Fixation with Renewable Electric Power to Feed the World. <i>Joule</i> , 2020 , 4, 1142-1147	27.8	15

65	Integrating anaerobic digestion, hydrothermal liquefaction, and biomethanation within a power-to-gas framework for dairy waste management and grid decarbonization: a techno-economic assessment. <i>Sustainable Energy and Fuels</i> , 2020 , 4, 4644-4661	5.8	15
64	Metabolic engineering of for the obligate reduction of -butyrate to -butanol. <i>Biotechnology for Biofuels</i> , 2017 , 10, 178	7.8	15
63	A rapid reverse transcription-PCR assay for F+ RNA coliphages to trace fecal pollution in Table Rock Lake on the Arkansas-Missouri border. <i>Water Research</i> , 2006 , 40, 3719-24	12.5	15
62	Reprogramming Acetogenic Bacteria with CRISPR-Targeted Base Editing Deamination. <i>ACS Synthetic Biology</i> , 2020 , 9, 2162-2171	5.7	13
61	An open-source biomass pyrolysis reactor. <i>Biofuels, Bioproducts and Biorefining</i> , 2017 , 11, 945-954	5.3	13
60	Electron Hopping Enables Rapid Electron Transfer between Quinone-/Hydroquinone-Containing Organic Molecules in Microbial Iron(III) Mineral Reduction. <i>Environmental Science & Technology</i> , 2020 , 54, 10646-10653	10.3	13
59	Integrated hollow fiber membranes for gas delivery into optical waveguide based photobioreactors. <i>Bioresource Technology</i> , 2015 , 192, 845-9	11	12
58	Redundancy in Anaerobic Digestion Microbiomes during Disturbances by the Antibiotic Monensin. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	12
57	Inactivation of Ascaris Eggs in Human Fecal Material Through In Situ Production of Carboxylic Acids. <i>Environmental Science & Technology</i> , 2017 , 51, 9729-9738	10.3	12
56	Comparative 16S rRNA gene surveys of granular sludge from three upflow anaerobic bioreactors treating purified terephthalic acid (PTA) wastewater. <i>Water Science and Technology</i> , 2011 , 64, 1406-12	2.2	12
55	Effects of ceiling-mounted HEPA-UV air filters on airborne bacteria concentrations in an indoor therapy pool building. <i>Journal of the Air and Waste Management Association</i> , 2005 , 55, 210-8	2.4	12
54	Direct Medium-Chain Carboxylic Acid Oil Separation from a Bioreactor by an Electrodialysis/Phase Separation Cell. <i>Environmental Science & Technology</i> , 2021 , 55, 634-644	10.3	12
53	Harnessing anaerobic digestion for combined cooling, heat, and power on dairy farms: An environmental life cycle and techno-economic assessment of added cooling pathways. <i>Journal of Dairy Science</i> , 2019 , 102, 3630-3645	4	11
52	Novel Rhizosphere Soil Alleles for the Enzyme 1-Aminocyclopropane-1-Carboxylate Deaminase Queried for Function with an In Vivo Competition Assay. <i>Applied and Environmental Microbiology</i> , 2016 , 82, 1050-9	4.8	11
51	Modularized production of fuels and other value-added products from distributed, wasted, or stranded feedstocks. <i>Wiley Interdisciplinary Reviews: Energy and Environment</i> , 2018 , 7, e308	4.7	11
50	A biogeochemical/hydrological framework for the role of redox-active compounds in aquatic systems. <i>Nature Geoscience</i> , 2021 , 14, 264-272	18.3	11
49	Improved design of anaerobic digesters for household biogas production in indonesia: one cow, one digester, and one hour of cooking per day. <i>Scientific World Journal, The</i> , 2014 , 2014, 318054	2.2	9
48	Continuously-stirred anaerobic digester to convert organic wastes into biogas: system setup and basic operation. <i>Journal of Visualized Experiments</i> , 2012 , e3978	1.6	9

47	Systematic Analysis of Factors That Affect Food-Waste Storage: Toward Maximizing Lactate Accumulation for Resource Recovery. <i>ACS Sustainable Chemistry and Engineering</i> , 2020 , 8, 13934-13944	8.3	9
46	Methane Emission in a Specific Riparian-Zone Sediment Decreased with Bioelectrochemical Manipulation and Corresponded to the Microbial Community Dynamics. <i>Frontiers in Microbiology</i> , 2015 , 6, 1523	5.7	9
45	The Isolate sp. 7D4C2 Produces -Caproate at Mildly Acidic Conditions From Hexoses: Genome and rBOX Comparison With Related Strains and Chain-Elongating Bacteria. <i>Frontiers in Microbiology</i> , 2020 , 11, 594524	5.7	9
44	Hollow fibre membrane arrays for CO ₂ delivery in microalgae photobioreactors. <i>RSC Advances</i> , 2014 , 4, 1460-1468	3.7	8
43	In situ hollow fiber membrane facilitated CO ₂ delivery to a cyanobacterium for enhanced productivity. <i>RSC Advances</i> , 2013 , 3, 13203	3.7	8
42	Potentiostatically Poised Electrodes Mimic Iron Oxide and Interact with Soil Microbial Communities to Alter the Biogeochemistry of Arctic Peat Soils. <i>Minerals (Basel, Switzerland)</i> , 2013 , 3, 318-336	2.4	8
41	Methanosaeta fibers in anaerobic migrating blanket reactors. <i>Water Science and Technology</i> , 2000 , 41, 35-39	2.2	8
40	Granular sludge is a preferable inoculum for the biochemical methane potential assay for two complex substrates. <i>Bioresource Technology</i> , 2020 , 309, 123359	11	7
39	Development of a Bioelectrochemical System as a Tool to Enrich H ₂ -Producing Syntrophic Bacteria. <i>Frontiers in Microbiology</i> , 2019 , 10, 110	5.7	6
38	Comparison of semi-batch vs. continuously fed anaerobic bioreactors for the treatment of a high-strength, solids-rich pumpkin-processing wastewater. <i>Environmental Technology (United Kingdom)</i> , 2015 , 36, 1974-83	2.6	5
37	Optimal pH set point for simultaneous production and pertraction of n-caproic acid: an experimental and simulation study. <i>Journal of Chemical Technology and Biotechnology</i> , 2020 , 95, 3105-3118	3.5	5
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