

Largus Angenent

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/7266890/largus-angenent-publications-by-year.pdf>

Version: 2024-04-26

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	The Measurement, Application and Effect of Oxygen in Microbial Fermentations: Focusing on Methane and Carboxylate Production. <i>Fermentation</i> , 2022 , 8, 138	4.7	0
189	Recycling carbon for sustainable protein production using gas fermentation.. <i>Current Opinion in Biotechnology</i> , 2022 , 76, 102723	11.4	0
188	Near-neutral pH increased n-caprylate production in a microbiome with product inhibition of methanogenesis. <i>Chemical Engineering Journal</i> , 2022 , 446, 137170	14.7	0
187	A Shuttle-Vector System Allows Heterologous Gene Expression in the Thermophilic Methanogen Methanothermobacter thermautotrophicus H. <i>MBio</i> , 2021 , e0276621	7.8	1
186	A coupled function of biochar as geobattery and geoconductor leads to stimulation of microbial Fe(III) reduction and methanogenesis in a paddy soil enrichment culture. <i>Soil Biology and Biochemistry</i> , 2021 , 163, 108446	7.5	3
185	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
184	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
183	Suppressing peatland methane production by electron snorkeling through pyrogenic carbon in controlled laboratory incubations. <i>Nature Communications</i> , 2021 , 12, 4119	17.4	4
182	Production and extraction of medium chain carboxylic acids at a semi-pilot scale. <i>Chemical Engineering Journal</i> , 2021 , 416, 127886	14.7	17
181	Long-Term Continuous Extraction of Medium-Chain Carboxylates by Pertraction With Submerged Hollow-Fiber Membranes. <i>Frontiers in Bioengineering and Biotechnology</i> , 2021 , 9, 726946	5.8	1
180	The short-term effect of residential home energy retrofits on indoor air quality and microbial exposure: A case-control study. <i>PLoS ONE</i> , 2021 , 16, e0230700	3.7	0
179	Shaping a reactor microbiome generating stable n-caproate productivity through Design-Build-Test-Learn approach. <i>Chemical Engineering Journal</i> , 2021 , 425, 131587	14.7	1
178	Sustainable district energy integrating biomass peaking with geothermal baseload heating: A case study of decarbonizing Cornell's energy system. <i>Journal of Renewable and Sustainable Energy</i> , 2020 , 12, 066302	2.5	4
177	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
176	Power-to-Protein: Carbon Fixation with Renewable Electric Power to Feed the World. <i>Joule</i> , 2020 , 4, 1142-1147	27.8	15
175	Reprogramming Acetogenic Bacteria with CRISPR-Targeted Base Editing Deamination. <i>ACS Synthetic Biology</i> , 2020 , 9, 2162-2171	5.7	13
174	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

173	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
172	Syntrophy via Interspecies H Transfer between and Underlies Their Global Cooccurrence in the Human Gut. <i>MBio</i> , 2020 , 11,	7.8	43
171	Nitrate Feed Improves Growth and Ethanol Production of With CO and H, but Results in Stochastic Inhibition Events. <i>Frontiers in Microbiology</i> , 2020 , 11, 724	5.7	16
170	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
169	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
168	Eco-Mimicry Opens New Doors for Bioprocess Engineers. <i>Joule</i> , 2020 , 4, 2074-2077	27.8	2
167	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
166	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
165	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
164	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
163	Current time-temperature relationships for thermal inactivation of eggs at mesophilic temperatures are too conservative and may hamper development of simple, but effective sanitation. <i>Water Research X</i> , 2019 , 5, 100036	8.1	4
162	Development of a Bioelectrochemical System as a Tool to Enrich H-Producing Syntrophic Bacteria. <i>Frontiers in Microbiology</i> , 2019 , 10, 110	5.7	6
161	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
160	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
159	Field-Scale Co-fermentation of Solid Waste From Urine-Diverting Dry Toilets (UDDT-SW) and Banana Waste to Produce Undissociated Carboxylic Acids to Inactivate Ascaris Eggs. <i>Frontiers in Environmental Science</i> , 2019 , 7,	4.8	2
158	Redundancy in Anaerobic Digestion Microbiomes during Disturbances by the Antibiotic Monensin. <i>Applied and Environmental Microbiology</i> , 2018 , 84,	4.8	12
157	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
156	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

155	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
154	Controlled experiment contradicts the apparent benefits of the Fenton reaction during anaerobic digestion at a municipal wastewater treatment plant. <i>Water Science and Technology</i> , 2018 , 78, 1861-1870 ^{2.2}		5
153	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
152	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
151	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
150	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
149	Anaerobic fermentation for n-caproic acid production: A review. <i>Process Biochemistry</i> , 2017 , 54, 106-119 ^{4.8}		134
148	Coupling hydrothermal liquefaction and anaerobic digestion for energy valorization from model biomass feedstocks. <i>Bioresource Technology</i> , 2017 , 233, 134-143	11	110
147	Rapid electron transfer by the carbon matrix in natural pyrogenic carbon. <i>Nature Communications</i> , 2017 , 8, 14873	17.4	223
146	Upgrading syngas fermentation effluent using in a continuous fermentation. <i>Biotechnology for Biofuels</i> , 2017 , 10, 83	7.8	70
145	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
144	A communal catalogue reveals Earth's multiscale microbial diversity. <i>Nature</i> , 2017 , 551, 457-463	50.4	1076
143	Metabolic engineering of for the obligate reduction of -butyrate to -butanol. <i>Biotechnology for Biofuels</i> , 2017 , 10, 178	7.8	15
142	An open-source biomass pyrolysis reactor. <i>Biofuels, Bioproducts and Biorefining</i> , 2017 , 11, 945-954	5.3	13
141	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
140	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
139	Overcoming the energetic limitations of syngas fermentation. <i>Current Opinion in Chemical Biology</i> , 2017 , 41, 84-92	9.7	39
138	Extracellular Electron Uptake: Among Autotrophs and Mediated by Surfaces. <i>Trends in Biotechnology</i> , 2017 , 35, 360-371	15.1	112

137	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
136	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
135	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
134	Conversion of L-lactate into n-caproate by a continuously fed reactor microbiome. <i>Water Research</i> , 2016 , 93, 163-171	12.5	128
133	Chain Elongation with Reactor Microbiomes: Open-Culture Biotechnology To Produce Biochemicals. <i>Environmental Science & Technology</i> , 2016 , 50, 2796-810	10.3	281
132	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
131	Single-Genotype Syntrophy by <i>Rhodospseudomonas palustris</i> Is Not a Strategy to Aid Redox Balance during Anaerobic Degradation of Lignin Monomers. <i>Frontiers in Microbiology</i> , 2016 , 7, 1082	5.7	1
130	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
129	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
128	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
127	Traits of selected <i>Clostridium</i> strains for syngas fermentation to ethanol. <i>Biotechnology and Bioengineering</i> , 2016 , 113, 531-9	4.9	79
126	Pigment-targeted light wavelength and intensity promotes efficient photoautotrophic growth of Cyanobacteria. <i>Bioresource Technology</i> , 2016 , 216, 579-86	11	19
125	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
124	Carbon recovery by fermentation of CO-rich off gases - Turning steel mills into biorefineries. <i>Bioresource Technology</i> , 2016 , 215, 386-396	11	99
123	The fermentation product 2,3-butanediol alters <i>P. aeruginosa</i> clearance, cytokine response and the lung microbiome. <i>ISME Journal</i> , 2016 , 10, 2978-2983	11.9	18
122	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
121	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
120	Integrated hollow fiber membranes for gas delivery into optical waveguide based photobioreactors. <i>Bioresource Technology</i> , 2015 , 192, 845-9	11	12

119	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
118	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
117	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
116	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
115	Electrolysis within anaerobic bioreactors stimulates breakdown of toxic products from azo dye treatment. <i>Biodegradation</i> , 2015 , 26, 151-60	4.1	18
114	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
113	Inoculum selection influences the biochemical methane potential of agro-industrial substrates. <i>Microbial Biotechnology</i> , 2015 , 8, 776-86	6.3	65
112	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
111	Microbial electrochemistry and technology: terminology and classification. <i>Energy and Environmental Science</i> , 2015 , 8, 513-519	35.4	306
110	Corrigendum to Production and physiological responses of heat-stressed lactating dairy cattle to conductive cooling (J. Dairy Sci. 98:5252-61). <i>Journal of Dairy Science</i> , 2015 , 98, 9060	4	
109	The Carboxylate Platform: Conversion of Carbon-rich Wastes into Liquid Fuels and Chemicals. <i>Proceedings of the Water Environment Federation</i> , 2015 , 2015, 3067-3067		
108	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
107	Conventional mesophilic vs. thermophilic anaerobic digestion: a trade-off between performance and stability?. <i>Water Research</i> , 2014 , 53, 249-58	12.5	168
106	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
105	Techno-economic assessment of biomass slow pyrolysis into different biochar and methanol concepts. <i>Fuel</i> , 2014 , 117, 742-748	7.1	98
104	Correlation between microbial community and granule conductivity in anaerobic bioreactors for brewery wastewater treatment. <i>Bioresource Technology</i> , 2014 , 174, 306-10	11	101
103	Stacked optical waveguide photobioreactor for high density algal cultures. <i>Bioresource Technology</i> , 2014 , 171, 495-9	11	32
102	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

101	In situ UV disinfection of a waveguide-based photobioreactor. <i>Environmental Science & Technology</i> , 2014 , 48, 11521-6	10.3	2
100	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
99	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
98	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
97	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
96	Hollow fibre membrane arrays for CO ₂ delivery in microalgae photobioreactors. <i>RSC Advances</i> , 2014 , 4, 1460-1468	3.7	8
95	Substrate type drives variation in reactor microbiomes of anaerobic digesters. <i>Bioresource Technology</i> , 2014 , 151, 397-401	11	61
94	Upgrading dilute ethanol from syngas fermentation to n-caproate with reactor microbiomes. <i>Bioresource Technology</i> , 2014 , 151, 378-82	11	102
93	Chain elongation in anaerobic reactor microbiomes to recover resources from waste. <i>Current Opinion in Biotechnology</i> , 2014 , 27, 115-22	11.4	232
92	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
91	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
90	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
89	Regulated expression of polysaccharide utilization and capsular biosynthesis loci in biofilm and planktonic <i>Bacteroides thetaiotaomicron</i> during growth in chemostats. <i>Biotechnology and Bioengineering</i> , 2014 , 111, 165-73	4.9	17
88	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
87	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
86	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
85	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
84	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

83	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
82	A Two-Stage Continuous Fermentation System for Conversion of Syngas into Ethanol. <i>Energies</i> , 2013 , 6, 3987-4000	3.1	114
81	A single-culture bioprocess of <i>Methanothermobacter thermautotrophicus</i> to upgrade digester biogas by CO ₂ -to-CH ₄ conversion with H ₂ . <i>Archaea</i> , 2013 , 2013, 157529	2	79
80	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
79	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
78	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
77	Biotests for hazard assessment of biofuel fermentation. <i>Energy and Environmental Science</i> , 2012 , 5, 9778	35.4	21
76	Host remodeling of the gut microbiome and metabolic changes during pregnancy. <i>Cell</i> , 2012 , 150, 470-80	6.2	1117
75	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
74	Development of Bacteria-Based Cellular Computing Circuits for Sensing and Control in Biological Systems 2012 , 265-277		
73	Slab waveguide photobioreactors for microalgae based biofuel production. <i>Lab on A Chip</i> , 2012 , 12, 3740-5	4.5	31
72	Assessment of the Ecotoxicological and Environmental Effects of Biorefineries 2012 , 435-467		
71	Chain elongation with reactor microbiomes: upgrading dilute ethanol to medium-chain carboxylates. <i>Energy and Environmental Science</i> , 2012 , 5, 8189	35.4	220
70	A laminar-flow microfluidic device for quantitative analysis of microbial electrochemical activity. <i>ChemSusChem</i> , 2012 , 5, 1119-23	8.3	35
69	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
68	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
67	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
66	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

65	Bacteria-based AND logic gate: a decision-making and self-powered biosensor. <i>Chemical Communications</i> , 2011 , 47, 3060-2	5.8	107
64	Waste to bioproduct conversion with undefined mixed cultures: the carboxylate platform. <i>Trends in Biotechnology</i> , 2011 , 29, 70-8	15.1	556
63	Cathodes as electron donors for microbial metabolism: which extracellular electron transfer mechanisms are involved?. <i>Bioresource Technology</i> , 2011 , 102, 324-33	11	409
62	Biochemical methane potential and biodegradability of complex organic substrates. <i>Bioresource Technology</i> , 2011 , 102, 2255-64	11	378
61	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
60	<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
59	Comments on Electricity generation by <i>Enterobacter cloacae</i> SU-1 in mediator less microbial fuel cell by Samrot et al., Int. J. Hydrogen Energy, 35 (15) 2010, 7723-7729. <i>International Journal of Hydrogen Energy</i> , 2011 , 36, 9396-9397	6.7	3
58	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
57	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
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	Potential pathogenic bacteria in metalworking fluids and aerosols from a machining facility. <i>FEMS Microbiology Ecology</i> , 2010 , 74, 643-54	4.3	26
54	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
53	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
52	Light energy to bioelectricity: photosynthetic microbial fuel cells. <i>Current Opinion in Biotechnology</i> , 2010 , 21, 259-64	11.4	271
51	Electric Power Generation from Municipal, Food, and Animal Wastewaters Using Microbial Fuel Cells. <i>Electroanalysis</i> , 2010 , 22, 832-843	3	144
50	Practical Aspects of Methane Production from Agricultural Wastes 2010 , 39-66		1
49	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
48	Production of gaseous or liquid value-added products in bioelectrochemical systems. <i>Journal of Biotechnology</i> , 2010 , 150, 179-179	3.7	1

47	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
46	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
45	Enzymatic and Microbial Electrochemical Systems 2010 , 1-5		
44	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
43	Airborne virus capture and inactivation by an electrostatic particle collector. <i>Environmental Science & Technology</i> , 2009 , 43, 5940-6	10.3	48
42	Interaction between temperature and ammonia in mesophilic digesters for animal waste treatment. <i>Water Research</i> , 2009 , 43, 2373-82	12.5	68
41	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
40	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
39	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
38	Microbial fuel cell performance with a pressurized cathode chamber. <i>Environmental Science & Technology</i> , 2008 , 42, 8578-84	10.3	62
37	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
36	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
35	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
34	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
33	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
32	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
31	Molecular Methods in Biological Systems. <i>Water Environment Research</i> , 2007 , 79, 1109-1151	2.8	1
30	Evaluation of chemical indicators for tracking and apportionment of phosphorus sources to Table Rock Lake in Southwest Missouri, USA. <i>Water Research</i> , 2007 , 41, 1525-33	12.5	1

29	Monitoring granule formation in anaerobic upflow bioreactors using oligonucleotide hybridization probes. <i>Biotechnology and Bioengineering</i> , 2006 , 94, 458-72	4.9	50
28	Application of Bacterial Biocathodes in Microbial Fuel Cells. <i>Electroanalysis</i> , 2006 , 18, 2009-2015	3	437
27	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
26	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
25	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
24	Electricity generation from artificial wastewater using an upflow microbial fuel cell. <i>Environmental Science & Technology</i> , 2005 , 39, 5262-7	10.3	599
23	Molecular Methods in Biological Systems. <i>Water Environment Research</i> , 2005 , 77, 718-779	2.8	
22	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
21	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
20	Molecular analysis of shower curtain biofilm microbes. <i>Applied and Environmental Microbiology</i> , 2004 , 70, 4187-92	4.8	116
19	Formation of granules and Methanosaeta fibres in an anaerobic migrating blanket reactor (AMBR). <i>Environmental Microbiology</i> , 2004 , 6, 315-22	5.2	40
18	Production of bioenergy and biochemicals from industrial and agricultural wastewater. <i>Trends in Biotechnology</i> , 2004 , 22, 477-85	15.1	744
17	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
16	Molecular Methods in Biological Systems. <i>Water Environment Research</i> , 2004 , 76, 605-667	2.8	
15	Molecular Methods in Biological Systems. <i>Water Environment Research</i> , 2003 , 75, 65-139	2.8	
14	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
13	Microbial community structure and activity in a compartmentalized, anaerobic bioreactor. <i>Water Environment Research</i> , 2002 , 74, 450-61	2.8	23
12	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

11	Anaerobic migrating blanket reactor treatment of low-strength wastewater at low temperatures. <i>Water Environment Research</i> , 2001 , 73, 567-74	2.8	43
10	MONITORING ANTIBIOTIC RESISTANCE IN BIOLOGICAL WASTE TREATMENT SYSTEMS. <i>Proceedings of the Water Environment Federation</i> , 2001 , 2001, 740-754		
9	Development of anaerobic migrating blanket reactor (AMBR), a novel anaerobic treatment system. <i>Water Research</i> , 2001 , 35, 1739-47	12.5	111
8	PSYCHROPHILIC ANAEROBIC PRETREATMENT OF LOW-STRENGTH WASTEWATER USING THE ANAEROBIC MIGRATING BLANKET REACTOR. <i>Proceedings of the Water Environment Federation</i> , 2000 , 2000, 746-763		1
7	Methanosaeta fibers in anaerobic migrating blanket reactors. <i>Water Science and Technology</i> , 2000 , 41, 35-39	2.2	8
6	Optimizing Mixed-Culture Bioprocessing To Convert Wastes into Bioenergy 179-194		18
5	Two-Phase Bioconversion of Greek-Yogurt Waste Into Medium-Chain Carboxylic Acid Oil via Lactic Acid Without External Electron Donor Addition. <i>SSRN Electronic Journal</i> ,	1	1
4	An open-source multiple-bioreactor system for replicable gas-fermentation experiments: Nitrate feed results in stochastic inhibition events, but improves ethanol production of <i>Clostridium ljungdahlii</i> with CO ₂ and H ₂		3
3	Reprogramming acetogenic bacteria with CRISPR-targeted base editing via deamination		1
2	The isolate <i>Caproiciproducens</i> sp. 7D4C2 produces n-caproate at mildly acidic conditions from hexoses: genome and rBOX comparison with related strains and chain-elongating bacteria		2
1	A shuttle-vector system allows heterologous gene expression in the thermophilic methanogen <i>Methanothermobacter thermautotrophicus</i> Δ		3