

Thomas P Curtis

List of Publications by Year in descending order

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75
papers

8,472
citations

101384

36
h-index

85405

71
g-index

80
all docs

80
docs citations

80
times ranked

10088
citing authors

#	ARTICLE	IF	CITATIONS
1	The Rational Design of a Financially Viable Microbial Electrolysis Cell for Domestic Wastewater Treatment. <i>Frontiers in Chemical Engineering</i> , 2022, 3, .	1.3	1
2	Looking for lipases and lipolytic organisms in low-temperature anaerobic reactors treating domestic wastewater. <i>Water Research</i> , 2022, 212, 118115.	5.3	10
3	The limitations of the current protein classification tools in identifying lipolytic features in putative bacterial lipase sequences. <i>Journal of Biotechnology</i> , 2022, 351, 30-37.	1.9	6
4	Sewage treatment at 4 Â°C in anaerobic upflow reactors with and without a membrane â€œ performance, function and microbial diversity. <i>Environmental Science: Water Research and Technology</i> , 2021, 7, 156-171.	1.2	7
5	Drift dynamics in microbial communities and the effective community size. <i>Environmental Microbiology</i> , 2021, 23, 2473-2483.	1.8	10
6	Valorization of pulp and paper industry wastewater using sludge enriched with nitrogenâ€fixing bacteria. <i>Water Environment Research</i> , 2021, 93, 1734-1747.	1.3	5
7	N-acyl-homoserine-lactones signaling as a critical control point for phosphorus entrapment by multi-species microbial aggregates. <i>Water Research</i> , 2021, 204, 117627.	5.3	19
8	Understanding the complexity of wastewater: The combined impacts of carbohydrates and sulphate on the performance of bioelectrochemical systems. <i>Water Research</i> , 2020, 176, 115737.	5.3	18
9	Nonlinear rheological characteristics of single species bacterial biofilms. <i>Npj Biofilms and Microbiomes</i> , 2020, 6, 19.	2.9	35
10	An efficient oxic-anoxic process for treating low COD/N tropical wastewater: Startup, optimization and nitrifying community structure. <i>Chemosphere</i> , 2020, 259, 127444.	4.2	15
11	Characterization of slowly-biodegradable organic compounds and hydrolysis kinetics in tropical wastewater for biological nitrogen removal. <i>Water Science and Technology</i> , 2020, 81, 71-80.	1.2	13
12	Enrichment of Nitrogen-Fixing Bacteria in a Nitrogen-Deficient Wastewater Treatment System. <i>Environmental Science & Technology</i> , 2020, 54, 3539-3548.	4.6	22
13	The effect of anode potential on current production from complex substrates in bioelectrochemical systems: a case study with glucose. <i>Applied Microbiology and Biotechnology</i> , 2020, 104, 5133-5143.	1.7	7
14	Enhanced nitrogen removal in an anoxic-oxic-anoxic process treating low COD/N tropical wastewater: Low-dissolved oxygen nitrification and utilization of slowly-biodegradable COD for denitrification. <i>Science of the Total Environment</i> , 2019, 693, 133526.	3.9	45
15	Individual Based Model Links Thermodynamics, Chemical Speciation and Environmental Conditions to Microbial Growth. <i>Frontiers in Microbiology</i> , 2019, 10, 1871.	1.5	20
16	High rate domestic wastewater treatment at 15 Â°C using anaerobic reactors inoculated with cold-adapted sediments/soils â€œ shaping robust methanogenic communities. <i>Environmental Science: Water Research and Technology</i> , 2019, 5, 70-82.	1.2	26
17	Avenues to the financial viability of microbial electrolysis cells [MEC] for domestic wastewater treatment and hydrogen production. <i>International Journal of Hydrogen Energy</i> , 2019, 44, 2426-2434.	3.8	73
18	Regulating, Measuring, and Modeling the Viscoelasticity of Bacterial Biofilms. <i>Journal of Bacteriology</i> , 2019, 201, .	1.0	33

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19	Global diversity and biogeography of bacterial communities in wastewater treatment plants. <i>Nature Microbiology</i> , 2019, 4, 1183-1195.	5.9	491
20	Bioenergetics analysis of ammonia-oxidizing bacteria and the estimation of their maximum growth yield. <i>Water Research</i> , 2019, 154, 238-245.	5.3	35
21	NUFEB: A massively parallel simulator for individual-based modelling of microbial communities. <i>PLoS Computational Biology</i> , 2019, 15, e1007125.	1.5	40
22	Metabolites of an Oil Field Sulfide-Oxidizing, Nitrate-Reducing <i>Sulfurimonas</i> sp. Cause Severe Corrosion. <i>Applied and Environmental Microbiology</i> , 2019, 85, .	1.4	38
23	EBI Metagenomics in 2017: enriching the analysis of microbial communities, from sequence reads to assemblies. <i>Nucleic Acids Research</i> , 2018, 46, D726-D735.	6.5	175
24	Community Assembly in Wastewater-Fed Pilot-Scale Microbial Electrolysis Cells. <i>Frontiers in Energy Research</i> , 2018, 6, .	1.2	22
25	Lipolysis of domestic wastewater in anaerobic reactors operating at low temperatures. <i>Environmental Science: Water Research and Technology</i> , 2018, 4, 1002-1013.	1.2	24
26	Developing cold-adapted biomass for the anaerobic treatment of domestic wastewater at low temperatures (4, 8 and 15°C) with inocula from cold environments. <i>Water Research</i> , 2017, 112, 100-109.	5.3	67
27	Challenges in microbial ecology: building predictive understanding of community function and dynamics. <i>ISME Journal</i> , 2016, 10, 2557-2568.	4.4	570
28	Quantification of effective exoelectrogens by most probable number (MPN) in a microbial fuel cell. <i>Bioresource Technology</i> , 2016, 218, 27-30.	4.8	28
29	A preliminary and qualitative study of resource ratio theory to nitrifying lab-scale bioreactors. <i>Microbial Biotechnology</i> , 2015, 8, 590-603.	2.0	10
30	An Evaluation of the Performance and Economics of Membranes and Separators in Single Chamber Microbial Fuel Cells Treating Domestic Wastewater. <i>PLoS ONE</i> , 2015, 10, e0136108.	1.1	41
31	Performance of a pilot scale microbial electrolysis cell fed on domestic wastewater at ambient temperatures for a 12 month period. <i>Bioresource Technology</i> , 2014, 173, 87-95.	4.8	230
32	Multi-scale modelling of bioreactor-separator system for wastewater treatment with two-dimensional activated sludge floc dynamics. <i>Water Research</i> , 2014, 50, 382-395.	5.3	24
33	Low-temperature limitation of bioreactor sludge in anaerobic treatment of domestic wastewater. <i>Water Science and Technology</i> , 2014, 69, 1004-1013.	1.2	77
34	Characterization of aerobic granular sludge treating high strength agro-based wastewater at different volumetric loadings. <i>Bioresource Technology</i> , 2013, 127, 181-187.	4.8	71
35	Modelling the effects of dispersal mechanisms and hydrodynamic regimes upon the structure of microbial communities within fluvial biofilms. <i>Environmental Microbiology</i> , 2013, 15, 1216-1225.	1.8	22
36	Microbial community assembly, theory and rare functions. <i>Frontiers in Microbiology</i> , 2013, 4, 68.	1.5	74

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37	Ammonia-Oxidizing Bacteria in Wastewater. <i>Methods in Enzymology</i> , 2011, 496, 269-286.	0.4	19
38	Maintenance affects the stability of a two-tiered microbial "food chain"? <i>Journal of Theoretical Biology</i> , 2011, 276, 35-41.	0.8	25
39	Low-Dissolved-Oxygen Nitrifying Systems Exploit Ammonia-Oxidizing Bacteria with Unusually High Yields. <i>Applied and Environmental Microbiology</i> , 2011, 77, 7787-7796.	1.4	80
40	Multi-scale modeling of activated sludge floc structure formation in wastewater bioreactors. <i>Computer Aided Chemical Engineering</i> , 2011, 29, 96-100.	0.3	0
41	The effect of flavin electron shuttles in microbial fuel cells current production. <i>Applied Microbiology and Biotechnology</i> , 2010, 85, 1373-1381.	1.7	123
42	Open circuit versus closed circuit enrichment of anodic biofilms in MFC: effect on performance and anodic communities. <i>Applied Microbiology and Biotechnology</i> , 2010, 87, 1699-1713.	1.7	59
43	Model based evaluation of the effect of pH and electrode geometry on microbial fuel cell performance. <i>Bioelectrochemistry</i> , 2010, 78, 8-24.	2.4	186
44	Combined niche and neutral effects in a microbial wastewater treatment community. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2010, 107, 15345-15350.	3.3	504
45	Systematic study of the effect of operating variables on reactor performance and microbial diversity in laboratory-scale activated sludge reactors. <i>Water Research</i> , 2010, 44, 1341-1352.	5.3	78
46	Modeling Risk of Failure in Nitrification: Simple Model Incorporating Abundance and Diversity. <i>Journal of Environmental Engineering, ASCE</i> , 2009, 135, 660-665.	0.7	3
47	Accurate determination of microbial diversity from 454 pyrosequencing data. <i>Nature Methods</i> , 2009, 6, 639-641.	9.0	895
48	Effect of Sludge Age on the Bacterial Diversity of Bench Scale Sequencing Batch Reactors. <i>Environmental Science & Technology</i> , 2009, 43, 2950-2956.	4.6	31
49	The rational exploration of microbial diversity. <i>ISME Journal</i> , 2008, 2, 997-1006.	4.4	190
50	The microbial diversity of laboratory-scale wetlands appears to be randomly assembled. <i>Water Research</i> , 2008, 42, 3182-3190.	5.3	54
51	Neutral assembly of bacterial communities. <i>FEMS Microbiology Ecology</i> , 2007, 62, 171-180.	1.3	177
52	Pro-poor sanitation technologies. <i>Geoforum</i> , 2007, 38, 901-907.	1.4	73
53	Modeling Taxa-Abundance Distributions in Microbial Communities using Environmental Sequence Data. <i>Microbial Ecology</i> , 2007, 53, 443-455.	1.4	151
54	Towards the design of diversity: stochastic models for community assembly in wastewater treatment plants. <i>Water Science and Technology</i> , 2006, 54, 227-236.	1.2	55

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55	Taxa-area relationships for microbes: the unsampled and the unseen. <i>Ecology Letters</i> , 2006, 9, 805-812.	3.0	112
56	Quantifying the roles of immigration and chance in shaping prokaryote community structure. <i>Environmental Microbiology</i> , 2006, 8, 732-740.	1.8	971
57	What is the extent of prokaryotic diversity?. <i>Philosophical Transactions of the Royal Society B: Biological Sciences</i> , 2006, 361, 2023-2037.	1.8	90
58	Response of the soil bacterial community to perturbation. , 2005, , 273-292.		1
59	Development of a Rapid Assay for Determining the Relative Abundance of Bacteria. <i>Applied and Environmental Microbiology</i> , 2005, 71, 8481-8490.	1.4	4
60	Agreement between Theory and Measurement in Quantification of Ammonia-Oxidizing Bacteria. <i>Applied and Environmental Microbiology</i> , 2005, 71, 6325-6334.	1.4	73
61	MICROBIOLOGY: Exploring Microbial Diversity--A Vast Below. <i>Science</i> , 2005, 309, 1331-1333.	6.0	181
62	Effect of wastewater composition on archaeal population diversity. <i>Water Research</i> , 2005, 39, 1576-1584.	5.3	70
63	Estimating bacterial diversity from clone libraries with flat rank abundance distributions. <i>Environmental Microbiology</i> , 2004, 6, 1081-1085.	1.8	23
64	Prokaryotic diversity and its limits: microbial community structure in nature and implications for microbial ecology. <i>Current Opinion in Microbiology</i> , 2004, 7, 221-226.	2.3	275
65	Composition and diversity of ammonia-oxidising bacterial communities in wastewater treatment reactors of different design treating identical wastewater. <i>FEMS Microbiology Ecology</i> , 2003, 43, 195-206.	1.3	165
66	Peer Reviewed: Theoretical Ecology for Engineering Biology. <i>Environmental Science & Technology</i> , 2003, 37, 64A-70A.	4.6	96
67	Estimating prokaryotic diversity and its limits. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 10494-10499.	3.3	975
68	Fate of <i>Cryptosporidium</i> oocysts in an immobilised titanium dioxide reactor with electric field enhancement. <i>Water Research</i> , 2002, 36, 2410-2413.	5.3	34
69	Occurrence and activity of Archaea in aerated activated sludge wastewater treatment plants. <i>Environmental Microbiology</i> , 2002, 4, 158-168.	1.8	70
70	Theory, community assembly, diversity and evolution in the microbial world. , 2001, , 59-76.		1
71	Quantitative Use of Fluorescent In Situ Hybridization To Examine Relationships between Mycolic Acid-Containing Actinomycetes and Foaming in Activated Sludge Plants. <i>Applied and Environmental Microbiology</i> , 2000, 66, 1158-1166.	1.4	148
72	In situ detection of rhodococci associated with activated sludge foams. <i>Antonie Van Leeuwenhoek</i> , 1998, 74, 41-48.	0.7	17

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73	The comparison of the diversity of activated sludge plants. Water Science and Technology, 1998, 37, 71-78.	1.2	16
74	Composition and diversity of ammonia-oxidising bacterial communities in wastewater treatment reactors of different design treating identical wastewater. , 0, .		4
75	The Uncountables. , 0, , 33-54.		0