Theodore Bouchez

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Ecological study of a bioaugmentation failure. Environmental Microbiology, 2000, 2, 179-190.	3.8	271
2	Simultaneous analysis of microbial identity and function using NanoSIMS. Environmental Microbiology, 2008, 10, 580-588.	3.8	187
3	Amoebae in domestic water systems: resistance to disinfection treatments and implication in Legionella persistence. Journal of Applied Microbiology, 2004, 97, 950-963.	3.1	176
4	Anaerobic digestion of biowaste under extreme ammonia concentration: Identification of key microbial phylotypes. Bioresource Technology, 2016, 207, 92-101.	9.6	140
5	Metaproteomics of cellulose methanisation under thermophilic conditions reveals a surprisingly high proteolytic activity. ISME Journal, 2014, 8, 88-102.	9.8	131
6	Members of the uncultured bacterial candidate division <scp>WWE</scp> 1 are implicated in anaerobic digestion of cellulose. MicrobiologyOpen, 2014, 3, 157-167.	3.0	114
7	Occurrence of lignin degradation genotypes and phenotypes among prokaryotes. Applied Microbiology and Biotechnology, 2014, 98, 9527-9544.	3.6	114
8	Community shifts within anaerobic digestion microbiota facing phenol inhibition: Towards early warning microbial indicators?. Water Research, 2016, 100, 296-305.	11.3	108
9	Improving anaerobic digestion with support media: Mitigation of ammonia inhibition and effect on microbial communities. Bioresource Technology, 2017, 235, 229-239.	9.6	107
10	Insights into networks of functional microbes catalysing methanization of cellulose under mesophilic conditions. Environmental Microbiology, 2009, 11, 889-904.	3.8	105
11	Effect of inoculum to substrate ratio (I/S) on municipal solid waste anaerobic degradation kinetics and potential. Waste Management, 2012, 32, 2258-2265.	7.4	78
12	Stable isotope probing of acetate fed anaerobic batch incubations shows a partial resistance of acetoclastic methanogenesis catalyzed by Methanosarcina to sudden increase of ammonia level. Water Research, 2015, 69, 90-99.	11.3	76
13	Microvirgula aerodenitrificans gen. nov., sp. nov., a new Gram-negative bacterium exhibiting co-respiration of oxygen and nitrogen oxides up to oxygen-saturated conditions. International Journal of Systematic Bacteriology, 1998, 48, 775-782.	2.8	75
14	Molecular microbiology methods for environmental diagnosis. Environmental Chemistry Letters, 2016, 14, 423-441.	16.2	75
15	Cloacibacillus evryensis gen. nov., sp. nov., a novel asaccharolytic, mesophilic, amino-acid-degrading bacterium within the phylum 'Synergistetes', isolated from an anaerobic sludge digester. International Journal of Systematic and Evolutionary Microbiology, 2008, 58, 2003-2012.	1.7	75
16	Anaerobic biodegradation of cellulosic material: Batch experiments and modelling based on isotopic data and focusing on aceticlastic and non-aceticlastic methanogenesis. Waste Management, 2009, 29, 1828-1837.	7.4	74
17	New insights into the key microbial phylotypes of anaerobic sludge digesters under different operational conditions. Water Research, 2016, 102, 158-169.	11.3	73
18	Combined phosphate and nitrogen removal in a sequencing batch reactor using the aerobic denitrifier, Microvirgula aerodenitrificans. Water Research, 2001, 35, 189-197.	11.3	69

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19	Combined monitoring of changes in δ13CH4 and archaeal community structure during mesophilic methanization of municipal solid waste. FEMS Microbiology Ecology, 2009, 68, 236-245.	2.7	69
20	A thermodynamic theory of microbial growth. ISME Journal, 2014, 8, 1747-1751.	9.8	58
21	Methanogenic diversity and activity in municipal solid waste landfill leachates. Antonie Van Leeuwenhoek, 2006, 89, 423-434.	1.7	51
22	Methanosarcina as the dominant aceticlastic methanogens during mesophilic anaerobic digestion of putrescible waste. Antonie Van Leeuwenhoek, 2008, 94, 593-605.	1.7	51
23	Comparison of synthetic medium and wastewater used as dilution medium to design scalable microbial anodes: Application to food waste treatment. Bioresource Technology, 2015, 185, 106-115.	9.6	51
24	Nitrate and nitrite injection during municipal solid waste anaerobic biodegradation. Waste Management, 2007, 27, 778-791.	7.4	50
25	Direct and correlated responses to selection in two lines of rabbits selected for feed efficiency under ad libitum and restricted feeding: I. Production traits and gut microbiota characteristics1. Journal of Animal Science, 2016, 94, 38-48.	0.5	50
26	Successful and unsuccessful bioaugmentation experiments monitored by fluorescent in situ hybridization. Water Science and Technology, 2000, 41, 61-68.	2.5	49
27	Perspectives in mathematical modelling for microbial ecology. Ecological Modelling, 2016, 321, 64-74.	2.5	47
28	Increasing concentrations of phenol progressively affect anaerobic digestion of cellulose and associated microbial communities. Biodegradation, 2016, 27, 15-27.	3.0	43
29	Co-inoculating ruminal content neither provides active hydrolytic microbes nor improves methanization of ¹³ C-cellulose in batch digesters. FEMS Microbiology Ecology, 2014, 87, 616-629.	2.7	41
30	The current provided by oxygen-reducing microbial cathodes is related to the composition of their bacterial community. Bioelectrochemistry, 2015, 102, 42-49.	4.6	40
31	Successful bacterial incorporation into activated sludge flocs using alginate. Bioresource Technology, 2009, 100, 1031-1032.	9.6	36
32	Evaluation of biodegradability of phenol and bisphenol A during mesophilic and thermophilic municipal solid waste anaerobic digestion using 13C-labeled contaminants. Chemosphere, 2013, 90, 512-520.	8.2	35
33	Comparative metatranscriptomic analysis of anaerobic digesters treating anionic surfactant contaminated wastewater. Science of the Total Environment, 2019, 649, 482-494.	8.0	33
34	Fluorescence-based tools for single-cell approaches in food microbiology. International Journal of Food Microbiology, 2015, 213, 2-16.	4.7	30
35	Shotgun metaproteomic profiling of biomimetic anaerobic digestion processes treating sewage sludge. Proteomics, 2015, 15, 3532-3543.	2.2	30
36	Discovery and characterization of a new bacterial candidate division by an anaerobic sludge digester metagenomic approach. Environmental Microbiology, 2008, 10, 2111-2123.	3.8	27

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37	Effect of ammonia on methane production pathways and reaction rates in acetate-fed biogas processes. Water Science and Technology, 2017, 75, 1839-1848.	2.5	27
38	Combined eukaryotic and bacterial community fingerprinting of natural freshwater biofilms using automated ribosomal intergenic spacer analysis. FEMS Microbiology Ecology, 2010, 74, 542-553.	2.7	26
39	Circular Economy Applied to Organic Residues and Wastewater: Research Challenges. Waste and Biomass Valorization, 2022, 13, 1267-1276.	3.4	26
40	Multi-system Nernst–Michaelis–Menten model applied to bioanodes formed from sewage sludge. Bioresource Technology, 2015, 195, 162-169.	9.6	25
41	A model-based approach to detect interspecific interactions during biofilm development. Biofouling, 2014, 30, 761-771.	2.2	23
42	Asymmetrical response of anaerobic digestion microbiota to temperature changes. Applied Microbiology and Biotechnology, 2016, 100, 1445-1457.	3.6	23
43	Denitrifying bio-cathodes developed from constructed wetland sediments exhibit electroactive nitrate reducing biofilms dominated by the genera Azoarcus and Pontibacter. Bioelectrochemistry, 2021, 140, 107819.	4.6	22
44	Successive bioanode regenerations to maintain efficient current production from biowaste. Bioelectrochemistry, 2015, 106, 133-140.	4.6	20
45	Gradual development of ammonia-induced syntrophic acetate-oxidizing activities under mesophilic and thermophilic conditions quantitatively tracked using multiple isotopic approaches. Water Research, 2021, 204, 117586.	11.3	20
46	Biocathodes reducing oxygen at high potential select biofilms dominated by Ectothiorhodospiraceae populations harboring a specific association of genes. Bioresource Technology, 2016, 214, 55-62.	9.6	19
47	Penta- and 2,4,6-tri-chlorophenol biodegradation during municipal solid waste anaerobic digestion. Ecotoxicology and Environmental Safety, 2016, 130, 270-278.	6.0	18
48	Whole Proteome Analyses on Ruminiclostridium cellulolyticum Show a Modulation of the Cellulolysis Machinery in Response to Cellulosic Materials with Subtle Differences in Chemical and Structural Properties. PLoS ONE, 2017, 12, e0170524.	2.5	16
49	Biorefinery for heterogeneous organic waste using microbial electrochemical technology. Bioresource Technology, 2019, 292, 121943.	9.6	15
50	Consistent microbial dynamics and functional community patterns derived from first principles. ISME Journal, 2019, 13, 263-276.	9.8	15
51	Leachate pre-treatment strategies before recirculation in landfill bioreactors. Water Science and Technology, 2005, 52, 289-297.	2.5	14
52	Life cycle assessment of a bioelectrochemical system as a new technological platform for biosuccinic acid production from waste. Environmental Science and Pollution Research, 2018, 25, 36485-36502.	5.3	14
53	Eco-design of microbial electrochemical technologies for the production of waste-based succinic acid thanks to a life cycle assessment. Journal of Cleaner Production, 2019, 225, 1155-1168.	9.3	14
54	Systematic and quantitative analysis of two decades of anodic wastewater treatment in bioelectrochemical reactors. Water Research, 2022, 214, 118142.	11.3	13

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55	Biological nitrogen removal in a single aerobic reactor by association of a nitrifying ecosystem to an aerobic denitrifier, Microvirgula aerodenitrificans. Journal of Molecular Catalysis B: Enzymatic, 1998, 5, 435-439.	1.8	12
56	Elucidation of nitrate reduction pathways in anaerobic bioreactors using a stable isotope approach. Rapid Communications in Mass Spectrometry, 2008, 22, 1746-1750.	1.5	12
57	Diversity of novel archaeal viruses infecting methanogens discovered through coupling of stable isotope probing and metagenomics. Environmental Microbiology, 2022, 24, 4853-4868.	3.8	12
58	Detection of WWE2-related <i>Lentisphaerae</i> by 16S rRNA gene sequencing and fluorescence in situ hybridization in landfill leachate. Canadian Journal of Microbiology, 2010, 56, 846-852.	1.7	11
59	Municipal Solid Waste Stabilization Efficiency Using Fluorescence Excitation–Emission Spectroscopy. Environmental Engineering Science, 2013, 30, 232-240.	1.6	11
60	Measurement of Biochemical Methane Potential of Heterogeneous Solid Substrates: Results of a Two-Phase French Inter-Laboratory Study. Water (Switzerland), 2020, 12, 2814.	2.7	11
61	Insights from Microbial Transition State Theory on Monod's Affinity Constant. Scientific Reports, 2020, 10, 5323.	3.3	8
62	Impact of nitrate-enhanced leachate recirculation on gaseous releases from a landfill bioreactor cell. Waste Management, 2009, 29, 2078-2084.	7.4	7
63	SIMSISH Technique Does Not Alter the Apparent Isotopic Composition of Bacterial Cells. PLoS ONE, 2013, 8, e77522.	2.5	7
64	Acidophilic microbial communities catalyzing sludge bioleaching monitored by fluorescent in situ hybridization. Antonie Van Leeuwenhoek, 2006, 89, 435-442.	1.7	6
65	Genome Sequences of Two Nondomesticated Bacillus subtilis Strains Able To Form Thick Biofilms on Submerged Surfaces. Genome Announcements, 2014, 2, .	0.8	6
66	Emergence of a Synergistic Diversity as a Response to Competition in Pseudomonas putida Biofilms. Microbial Ecology, 2020, 80, 47-59.	2.8	6
67	Quantification of bacterial populations in complex ecosystems using fluorescent in situ hybridization, confocal laser scanning microscopy and image analysis. Genetics Selection Evolution, 2001, 33, S307.	3.0	5
68	Electrochemical analysis of a microbial electrochemical snorkel in laboratory and constructed wetlands. Bioelectrochemistry, 2021, 142, 107895.	4.6	5
69	Similar evolution in Î′ 13CH4 and model-predicted relative rate of aceticlastic methanogenesis during mesophilic methanization of municipal solid wastes. Water Science and Technology, 2009, 60, 3173-3179.	2.5	2
70	Influence de la préoxydation d'un PEHD sur l'extraction des carbonyles et la croissance d'un biofilm. Materiaux Et Techniques, 2012, 100, 211-220.	0.9	1
71	Leachate pre-treatment strategies before recirculation in landfill bioreactors. Water Science and Technology, 2005, 52, 289-97.	2.5	1
72	The role of oxidation compounds in biofilm growth on polyethylene geomembrane barriers used in landfill. Journal of Applied Polymer Science, 2012, 124, E251.	2.6	0