## **Theodore Bouchez**

List of Publications by Year in descending order

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72 papers

3,321 citations

32 h-index 56 g-index

73 all docs

73 docs citations

times ranked

73

4458 citing authors

#	Article	IF	Citations
1	Circular Economy Applied to Organic Residues and Wastewater: Research Challenges. Waste and Biomass Valorization, 2022, 13, 1267-1276.	3.4	26
2	Systematic and quantitative analysis of two decades of anodic wastewater treatment in bioelectrochemical reactors. Water Research, 2022, 214, 118142.	11.3	13
3	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
4	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
5	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
6	Electrochemical analysis of a microbial electrochemical snorkel in laboratory and constructed wetlands. Bioelectrochemistry, 2021, 142, 107895.	4.6	5
7	Emergence of a Synergistic Diversity as a Response to Competition in Pseudomonas putida Biofilms. Microbial Ecology, 2020, 80, 47-59.	2.8	6
8	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
9	Insights from Microbial Transition State Theory on Monod's Affinity Constant. Scientific Reports, 2020, 10, 5323.	3.3	8
10	Biorefinery for heterogeneous organic waste using microbial electrochemical technology. Bioresource Technology, 2019, 292, 121943.	9.6	15
11	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
12	Comparative metatranscriptomic analysis of anaerobic digesters treating anionic surfactant contaminated wastewater. Science of the Total Environment, 2019, 649, 482-494.	8.0	33
13	Consistent microbial dynamics and functional community patterns derived from first principles. ISME Journal, 2019, 13, 263-276.	9.8	15
14	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
15	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
16	Improving anaerobic digestion with support media: Mitigation of ammonia inhibition and effect on microbial communities. Bioresource Technology, 2017, 235, 229-239.	9.6	107
17	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
18	Community shifts within anaerobic digestion microbiota facing phenol inhibition: Towards early warning microbial indicators?. Water Research, 2016, 100, 296-305.	11.3	108

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19	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
20	Asymmetrical response of anaerobic digestion microbiota to temperature changes. Applied Microbiology and Biotechnology, 2016, 100, 1445-1457.	3.6	23
21	Molecular microbiology methods for environmental diagnosis. Environmental Chemistry Letters, 2016, 14, 423-441.	16.2	75
22	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
23	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
24	New insights into the key microbial phylotypes of anaerobic sludge digesters under different operational conditions. Water Research, 2016, 102, 158-169.	11.3	73
25	Perspectives in mathematical modelling for microbial ecology. Ecological Modelling, 2016, 321, 64-74.	2.5	47
26	Increasing concentrations of phenol progressively affect anaerobic digestion of cellulose and associated microbial communities. Biodegradation, 2016, 27, 15-27.	3.0	43
27	Anaerobic digestion of biowaste under extreme ammonia concentration: Identification of key microbial phylotypes. Bioresource Technology, 2016, 207, 92-101.	9.6	140
28	Multi-system Nernst–Michaelis–Menten model applied to bioanodes formed from sewage sludge. Bioresource Technology, 2015, 195, 162-169.	9.6	25
29	Fluorescence-based tools for single-cell approaches in food microbiology. International Journal of Food Microbiology, 2015, 213, 2-16.	4.7	30
30	Successive bioanode regenerations to maintain efficient current production from biowaste. Bioelectrochemistry, 2015, 106, 133-140.	4.6	20
31	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
32	Shotgun metaproteomic profiling of biomimetic anaerobic digestion processes treating sewage sludge. Proteomics, 2015, 15, 3532-3543.	2.2	30
33	The current provided by oxygen-reducing microbial cathodes is related to the composition of their bacterial community. Bioelectrochemistry, 2015, 102, 42-49.	<b>4.</b> 6	40
34	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
35	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
36	Co-inoculating ruminal content neither provides active hydrolytic microbes nor improves methanization of <sup>13 &lt; /sup&gt;C-cellulose in batch digesters. FEMS Microbiology Ecology, 2014, 87, 616-629.</sup>	2.7	41

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37	Genome Sequences of Two Nondomesticated Bacillus subtilis Strains Able To Form Thick Biofilms on Submerged Surfaces. Genome Announcements, 2014, 2, .	0.8	6
38	Metaproteomics of cellulose methanisation under thermophilic conditions reveals a surprisingly high proteolytic activity. ISME Journal, 2014, 8, 88-102.	9.8	131
39	A thermodynamic theory of microbial growth. ISME Journal, 2014, 8, 1747-1751.	9.8	58
40	Occurrence of lignin degradation genotypes and phenotypes among prokaryotes. Applied Microbiology and Biotechnology, 2014, 98, 9527-9544.	3.6	114
41	A model-based approach to detect interspecific interactions during biofilm development. Biofouling, 2014, 30, 761-771.	2.2	23
42	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
43	Municipal Solid Waste Stabilization Efficiency Using Fluorescence Excitation–Emission Spectroscopy. Environmental Engineering Science, 2013, 30, 232-240.	1.6	11
44	SIMSISH Technique Does Not Alter the Apparent Isotopic Composition of Bacterial Cells. PLoS ONE, 2013, 8, e77522.	2.5	7
45	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
46	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
47	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
48	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
49	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
50	Similar evolution in δ 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
51	Combined monitoring of changes in $\tilde{A}\check{Z}\hat{A}'13$ CH4 and archaeal community structure during mesophilic methanization of municipal solid waste. FEMS Microbiology Ecology, 2009, 68, 236-245.	2.7	69
52	Impact of nitrate-enhanced leachate recirculation on gaseous releases from a landfill bioreactor cell. Waste Management, 2009, 29, 2078-2084.	7.4	7
53	Insights into networks of functional microbes catalysing methanization of cellulose under mesophilic conditions. Environmental Microbiology, 2009, 11, 889-904.	3.8	105
54	Successful bacterial incorporation into activated sludge flocs using alginate. Bioresource Technology, 2009, 100, 1031-1032.	9.6	36

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55	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
56	Methanosarcina as the dominant aceticlastic methanogens during mesophilic anaerobic digestion of putrescible waste. Antonie Van Leeuwenhoek, 2008, 94, 593-605.	1.7	51
57	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
58	Simultaneous analysis of microbial identity and function using NanoSIMS. Environmental Microbiology, 2008, 10, 580-588.	3.8	187
59	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
60	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
61	Nitrate and nitrite injection during municipal solid waste anaerobic biodegradation. Waste Management, 2007, 27, 778-791.	7.4	50
62	Methanogenic diversity and activity in municipal solid waste landfill leachates. Antonie Van Leeuwenhoek, 2006, 89, 423-434.	1.7	51
63	Acidophilic microbial communities catalyzing sludge bioleaching monitored by fluorescent in situ hybridization. Antonie Van Leeuwenhoek, 2006, 89, 435-442.	1.7	6
64	Leachate pre-treatment strategies before recirculation in landfill bioreactors. Water Science and Technology, 2005, 52, 289-297.	2.5	14
65	Leachate pre-treatment strategies before recirculation in landfill bioreactors. Water Science and Technology, 2005, 52, 289-97.	2.5	1
66	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
67	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
68	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
69	Ecological study of a bioaugmentation failure. Environmental Microbiology, 2000, 2, 179-190.	3.8	271
70	Successful and unsuccessful bioaugmentation experiments monitored by fluorescent in situ hybridization. Water Science and Technology, 2000, 41, 61-68.	2.5	49
71	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
72	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