

Fabrice Bline

List of Publications by Citations

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

75
papers

2,759
citations

32
h-index

51
g-index

76
ext. papers

3,037
ext. citations

6.3
avg, IF

4.95
L-index

#	Paper	IF	Citations
75	Biochemical methane potential (BMP) of solid organic substrates: evaluation of anaerobic biodegradability using data from an international interlaboratory study. <i>Journal of Chemical Technology and Biotechnology</i> , 2011 , 86, 1088-1098	3.5	337
74	Recycling of livestock manure in a whole-farm perspective. <i>Livestock Science</i> , 2007 , 112, 180-191	1.7	177
73	Challenges and innovations on biological treatment of livestock effluents. <i>Bioresource Technology</i> , 2009 , 100, 5431-6	11	118
72	Optimization of struvite precipitation in synthetic biologically treated swine wastewater--determination of the optimal process parameters. <i>Journal of Hazardous Materials</i> , 2013 , 244-245, 357-69	12.8	103
71	The effect of incubation conditions on the laboratory measurement of the methane producing capacity of livestock wastes. <i>Bioresource Technology</i> , 2008 , 99, 146-55	11	100
70	Digestate color and light intensity affect nutrient removal and competition phenomena in a microalgal-bacterial ecosystem. <i>Water Research</i> , 2014 , 64, 278-287	12.5	97
69	Anaerobic co-digestion of waste activated sludge and greasy sludge from flotation process: batch versus CSTR experiments to investigate optimal design. <i>Bioresource Technology</i> , 2012 , 105, 1-8	11	92
68	Feasibility and interest of the anammox process as treatment alternative for anaerobic digester supernatants in manure processing--an overview. <i>Journal of Environmental Management</i> , 2013 , 131, 170-84	7.9	86
67	Nitrite effect on nitrous oxide emission from denitrifying activated sludge. <i>Process Biochemistry</i> , 2008 , 43, 683-689	4.8	77
66	Sulphur fate and anaerobic biodegradation potential during co-digestion of seaweed biomass (<i>Ulva</i> sp.) with pig slurry. <i>Bioresource Technology</i> , 2011 , 102, 10794-802	11	73
65	Piggery wastewater characterisation for biological nitrogen removal process design. <i>Bioresource Technology</i> , 2005 , 96, 351-8	11	68
64	Prediction of hydrogen sulphide production during anaerobic digestion of organic substrates. <i>Bioresource Technology</i> , 2012 , 121, 419-24	11	67
63	A waste characterisation procedure for ADM1 implementation based on degradation kinetics. <i>Water Research</i> , 2012 , 46, 4099-110	12.5	60
62	Monitoring GHG from manure stores on organic and conventional dairy farms. <i>Agriculture, Ecosystems and Environment</i> , 2006 , 112, 122-128	5.7	58
61	Region-specific assessment of greenhouse gas mitigation with different manure management strategies in four agroecological zones. <i>Global Change Biology</i> , 2009 , 15, 2825-2837	11.4	56
60	Factors affecting Nitrogen Transformations and Related Nitrous Oxide Emissions from Aerobically Treated Piggery Slurry. <i>Biosystems Engineering</i> , 1999 , 73, 235-243		55
59	Application of the 15N technique to determine the contributions of nitrification and denitrification to the flux of nitrous oxide from aerated pig slurry. <i>Water Research</i> , 2001 , 35, 2774-8	12.5	54

58	Nitrogen transformations during biological aerobic treatment of pig slurry: effect of intermittent aeration on nitrous oxide emissions. <i>Bioresource Technology</i> , 2002 , 83, 225-8	11	53
57	Modelling of manure production by pigs and NH ₃ , N ₂ O and CH ₄ emissions. Part II: effect of animal housing, manure storage and treatment practices. <i>Animal</i> , 2010 , 4, 1413-24	3.1	51
56	Gaseous Emissions (NH ₃ , N ₂ O, CH ₄ and CO ₂) from the aerobic treatment of piggery slurry: Comparison with a conventional storage system. <i>Biosystems Engineering</i> , 2007 , 97, 472-480	4.8	51
55	Combined anaerobic and activated sludge anoxic/oxic treatment for piggery wastewater. <i>Bioresource Technology</i> , 2011 , 102, 2185-92	11	45
54	A French inventory of gaseous emissions (CH ₄ , N ₂ O, NH ₃) from livestock manure management using a mass-flow approach. <i>Livestock Science</i> , 2007 , 112, 252-260	1.7	44
53	Batch enrichment of anammox bacteria and study of the underlying microbial community dynamics. <i>Chemical Engineering Journal</i> , 2016 , 297, 217-228	14.7	40
52	Microalgae and cyanobacteria modeling in water resource recovery facilities: A critical review. <i>Water Research X</i> , 2019 , 2, 100024	8.1	39
51	In situ measurement of ammonia and greenhouse gas emissions from broiler houses in France. <i>Bioresource Technology</i> , 2005 , 96, 203-7	11	38
50	Coupling of partial nitrification and anammox in two- and one-stage systems: Process operation, N ₂ O emission and microbial community. <i>Journal of Cleaner Production</i> , 2018 , 203, 559-573	10.3	38
49	Treatment of swine wastewater in continuous activated sludge systems under different dissolved oxygen conditions: Reactor operation and evaluation using modelling. <i>Bioresource Technology</i> , 2018 , 250, 574-582	11	37
48	Identifying cost-competitive greenhouse gas mitigation potential of French agriculture. <i>Environmental Science and Policy</i> , 2017 , 77, 130-139	6.2	37
47	Control of nitrogen behaviour by phosphate concentration during microalgal-bacterial cultivation using digestate. <i>Bioresource Technology</i> , 2015 , 175, 224-30	11	36
46	Nitrogen removal via nitrite pathway and the related nitrous oxide emission during piggery wastewater treatment. <i>Bioresource Technology</i> , 2011 , 102, 4042-6	11	36
45	Volatile fatty acids analysis from pig slurry using high-performance liquid chromatography. <i>International Journal of Environmental Analytical Chemistry</i> , 2004 , 84, 1017-1022	1.8	36
44	Nitrogen transformations during anaerobically stored 15N-labelled pig slurry. <i>Bioresource Technology</i> , 1998 , 64, 83-88	11	35
43	Anaerobic hydrolysis and acidification of organic substrates: determination of anaerobic hydrolytic potential. <i>Bioresource Technology</i> , 2011 , 102, 5653-8	11	31
42	Combination of batch experiments with continuous reactor data for ADM1 calibration: application to anaerobic digestion of pig slurry. <i>Water Science and Technology</i> , 2011 , 63, 2575-82	2.2	30
41	Modelling of biological processes during aerobic treatment of piggery wastewater aiming at process optimisation. <i>Bioresource Technology</i> , 2007 , 98, 3298-308	11	30

40	BIOLOGICAL AEROBIC TREATMENT OF PIG SLURRY IN FRANCE: NUTRIENTS REMOVAL EFFICIENCY AND SEPARATION PERFORMANCES. <i>Transactions of the American Society of Agricultural Engineers</i> , 2004 , 47, 857-864		28
39	Effects of organic matter on crystallization of struvite in biologically treated swine wastewater. <i>Environmental Technology (United Kingdom)</i> , 2016 , 37, 880-92	2.6	23
38	Nitrogen transformations and ammonia loss following injection and surface application of pig slurry: a laboratory experiment using slurry labelled with 15N-ammonium. <i>Journal of Agricultural Science</i> , 2001 , 136, 231-240	1	23
37	Kinetics of struvite precipitation in synthetic biologically treated swine wastewaters. <i>Environmental Technology (United Kingdom)</i> , 2014 , 35, 1250-62	2.6	22
36	Ultrafiltration and reverse osmosis of small non-charged molecules: a comparison study of rejection in a stirred and an unstirred batch cell. <i>Journal of Membrane Science</i> , 2000 , 164, 141-155	9.6	22
35	Influence of pH and Biological Metabolism on Dissolved Phosphorus during Biological Treatment of Piggery Wastewater. <i>Biosystems Engineering</i> , 2007 , 96, 379-386	4.8	20
34	Nutrient management from biogas digester effluents: a bibliometric-based analysis of publications and patents. <i>International Journal of Environmental Science and Technology</i> , 2017 , 14, 1739-1756	3.3	19
33	Long chain fatty acids (LCFA) evolution for inhibition forecasting during anaerobic treatment of lipid-rich wastes: Case of milk-fed veal slaughterhouse waste. <i>Waste Management</i> , 2017 , 67, 51-58	8.6	19
32	Combined anaerobic digestion and biological nitrogen removal for piggery wastewater treatment: a modelling approach. <i>Water Science and Technology</i> , 2008 , 58, 133-41	2.2	17
31	Odour and Life Cycle Assessment (LCA) in Waste Management: A Local Assessment Proposal. <i>Waste and Biomass Valorization</i> , 2013 , 4, 607-617	3.2	16
30	Comparison of existing models to simulate anaerobic digestion of lipid-rich waste. <i>Bioresource Technology</i> , 2017 , 226, 99-107	11	15
29	The efficiency of biological aerobic treatment of piggery wastewater to control nitrogen, phosphorus, pathogen and gas emissions. <i>Water Science and Technology</i> , 2008 , 57, 1909-14	2.2	14
28	Relevance of a perchloric acid extraction scheme to determine mineral and organic phosphorus in swine slurry. <i>Bioresource Technology</i> , 2008 , 99, 1319-24	11	13
27	Characterization of a combined batch-continuous procedure for the culture of anammox biomass. <i>Ecological Engineering</i> , 2017 , 106, 231-241	3.9	12
26	A Floating Chamber for estimating Nitrous Oxide Emissions from Farm Scale Treatment Units for Livestock Wastes. <i>Biosystems Engineering</i> , 1999 , 73, 101-104		10
25	Evolution of N-converting bacteria during the start-up of anaerobic digestion coupled biological nitrogen removal pilot-scale bioreactors treating high-strength animal waste slurry. <i>Bioresource Technology</i> , 2009 , 100, 3678-87	11	9
24	THE EFFECT OF PHYTASE IN PIG DIET AND SOLID/LIQUID SEPARATION OF PIG SLURRY ON PHOSPHORUS, CALCIUM, AND MAGNESIUM FRACTIONATION. <i>Transactions of the American Society of Agricultural Engineers</i> , 2004 , 47, 1247-1253		9
23	Detection of early imbalances in semi-continuous anaerobic co-digestion process based on instantaneous biogas production rate. <i>Water Research</i> , 2020 , 171, 115444	12.5	9

22	Effect of Digested Sludge Properties on Mechanical Dewatering Efficiency: An Experimental Approach. <i>Drying Technology</i> , 2015 , 33, 1295-1301	2.6	8
21	Effect of Nitrification on Phosphorus dissolving in a Piggery Effluent treated by a Sequencing Batch Reactor. <i>Biosystems Engineering</i> , 2007 , 96, 551-557	4.8	7
20	Activated Sludge Model No. 1 calibration for piggery wastewater treatment using respirometry. <i>Water Science and Technology</i> , 2004 , 49, 389-396	2.2	7
19	Physico-chemical, biochemical and nutritional characterisation of 42 organic wastes and residues from France. <i>Data in Brief</i> , 2018 , 19, 1953-1962	1.2	7
18	Origin, quantities and fate of nitrogen flows associated with animal production. <i>Advances in Animal Biosciences</i> , 2014 , 5, 28-48	0.3	6
17	Gaseous emissions (NH ₃ , N ₂ O, CH ₄ , CO ₂) during pig slurry biological aerobic treatment and treatment by-product storages. <i>International Congress Series</i> , 2006 , 1293, 299-302		6
16	Modelling hydrolysis: Simultaneous versus sequential biodegradation of the hydrolysable fractions. <i>Waste Management</i> , 2020 , 101, 150-160	8.6	5
15	Measurement of Biochemical Methane Potential of Heterogeneous Solid Substrates: Results of a Two-Phase French Inter-Laboratory Study. <i>Water (Switzerland)</i> , 2020 , 12, 2814	3	4
14	Numerical assessment of nitrogen removal from swine wastewater in activated sludge systems: Comparison between continuous and intermittent aeration. <i>Bioresource Technology Reports</i> , 2020 , 11, 100492	4.1	4
13	Comprehensive determination of input state variables dataset required for anaerobic digestion modelling (ADM1) based on characterisation of organic substrates. <i>Data in Brief</i> , 2020 , 29, 105212	1.2	4
12	Nitrogen flows and livestock farming: lessons and perspectives. <i>Advances in Animal Biosciences</i> , 2014 , 5, 68-71	0.3	4
11	Modelling of biological nitrogen removal during treatment of piggery wastewater. <i>Water Science and Technology</i> , 2007 , 55, 11-9	2.2	3
10	Fate of phosphorus from biological aerobic treatment of pig slurry. By-products characterization and recovery. <i>Environmental Technology (United Kingdom)</i> , 2003 , 24, 1323-30	2.6	3
9	Fault detection with moving window PCA using NIRS spectra for monitoring the anaerobic digestion process. <i>Water Science and Technology</i> , 2020 , 81, 367-382	2.2	2
8	Caractéristiques des substrats et interactions dans les filières de co-digestion : cas particulier des co-substrats d'origine agro-industrielle. <i>Sciences Eaux & Territoires</i> , 2013 , Numéro 12, 44	0.5	2
7	Methane production and microbial community acclimation of five manure inocula during psychrophilic anaerobic digestion of swine manure. <i>Journal of Cleaner Production</i> , 2022 , 340, 130772	10.3	1
6	Biological Nitrogen Potential (BNP): A New Methodology to Estimate Nitrogen Transformations During Anaerobic Digestion of Organic Substrates. <i>Waste and Biomass Valorization</i> , 2020 , 11, 525-537	3.2	1
5	Dataset on the characteristics of the liquid effluent issued from separation of faeces and urine under slats using V-shaped scraper in swine buildings. <i>Data in Brief</i> , 2020 , 30, 105533	1.2	

4	Gestion de l'azote en syst?me d'levage d?velopp?. Enjeux scientifiques et environnementauxNitrogen management from intensive livestock production : scientific and environmental issues. <i>Natures Sciences Societes</i> , 2002 , 10, 52-61	0.2
3	Fractionnement de la mati?re organique du lisier de porc par couplage de la respirom?rie et de la mod?lisation. <i>Water Quality Research Journal of Canada</i> , 2010 , 45, 403-411	1.7
2	La m?chanisation en milieu rural et ses perspectives de d?veloppement en France. <i>Sciences Eaux & Territoires</i> , 2013 , Num?ro 12, 6	0.5
1	Activated Sludge Model No. 1 calibration for piggery wastewater treatment using respirometry. <i>Water Science and Technology</i> , 2004 , 49, 389-95	2.2