Fabrice Bline

List of Publications by Year in Descending Order

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	Methane production and microbial community acclimation of five manure inocula during psychrophilic anaerobic digestion of swine manure. *Journal of Cleaner Production*, **2022**, 340, 130772	10.3	1
74	Measurement of Biochemical Methane Potential of Heterogeneous Solid Substrates: Results of a Two-Phase French Inter-Laboratory Study. *Water (Switzerland)*, **2020**, 12, 2814	3	4
73	Fault detection with moving window PCA using NIRS spectra for monitoring the anaerobic digestion process. *Water Science and Technology*, **2020**, 81, 367-382	2.2	2
72	Numerical assessment of nitrogen removal from swine wastewater in activated sludge systems: Comparison between continuous and intermittent aeration. *Bioresource Technology Reports*, **2020**, 11, 100492	4.1	4
71	Comprehensive determination of input state variables dataset required for anaerobic digestion modelling (ADM1) based on characterisation of organic substrates. *Data in Brief*, **2020**, 29, 105212	1.2	4
70	Dataset on the characteristics of the liquid effluent issued from separation of faeces and urine under slats using V-shaped scraper in swine buildings. *Data in Brief*, **2020**, 30, 105533	1.2	
69	Detection of early imbalances in semi-continuous anaerobic co-digestion process based on instantaneous biogas production rate. *Water Research*, **2020**, 171, 115444	12.5	9
68	Modelling hydrolysis: Simultaneous versus sequential biodegradation of the hydrolysable fractions. *Waste Management*, **2020**, 101, 150-160	8.6	5
67	Biological Nitrogen Potential (BNP): A New Methodology to Estimate Nitrogen Transformations During Anaerobic Digestion of Organic Substrates. *Waste and Biomass Valorization*, **2020**, 11, 525-537	3.2	1
66	Microalgae and cyanobacteria modeling in water resource recovery facilities: A critical review. *Water Research X*, **2019**, 2, 100024	8.1	39
65	Treatment of swine wastewater in continuous activated sludge systems under different dissolved oxygen conditions: Reactor operation and evaluation using modelling. *Bioresource Technology*, **2018**, 250, 574-582	11	37
64	Coupling of partial nitritation and anammox in two- and one-stage systems: Process operation, N2O emission and microbial community. *Journal of Cleaner Production*, **2018**, 203, 559-573	10.3	38
63	Physico-chemical, biochemical and nutritional characterisation of 42 organic wastes and residues from France. *Data in Brief*, **2018**, 19, 1953-1962	1.2	7
62	Characterization of a combined batch-continuous procedure for the culture of anammox biomass. *Ecological Engineering*, **2017**, 106, 231-241	3.9	12
61	Nutrient management from biogas digester effluents: a bibliometric-based analysis of publications and patents. *International Journal of Environmental Science and Technology*, **2017**, 14, 1739-1756	3.3	19
60	Comparison of existing models to simulate anaerobic digestion of lipid-rich waste. *Bioresource Technology*, **2017**, 226, 99-107	11	15
59	Identifying cost-competitive greenhouse gas mitigation potential of French agriculture. *Environmental Science and Policy*, **2017**, 77, 130-139	6.2	37

58	Long chain fatty acids (LCFA) evolution for inhibition forecasting during anaerobic treatment of lipid-rich wastes: Case of milk-fed veal slaughterhouse waste. *Waste Management*, **2017**, 67, 51-58	8.6	19
57	Effects of organic matter on crystallization of struvite in biologically treated swine wastewater. *Environmental Technology (United Kingdom)*, **2016**, 37, 880-92	2.6	23
56	Batch enrichment of anammox bacteria and study of the underlying microbial community dynamics. *Chemical Engineering Journal*, **2016**, 297, 217-228	14.7	40
55	Control of nitrogen behaviour by phosphate concentration during microalgal-bacterial cultivation using digestate. *Bioresource Technology*, **2015**, 175, 224-30	11	36
54	Effect of Digested Sludge Properties on Mechanical Dewatering Efficiency: An Experimental Approach. *Drying Technology*, **2015**, 33, 1295-1301	2.6	8
53	Digestate color and light intensity affect nutrient removal and competition phenomena in a microalgal-bacterial ecosystem. *Water Research*, **2014**, 64, 278-287	12.5	97
52	Kinetics of struvite precipitation in synthetic biologically treated swine wastewaters. *Environmental Technology (United Kingdom)*, **2014**, 35, 1250-62	2.6	22
51	Nitrogen flows and livestock farming: lessons and perspectives. *Advances in Animal Biosciences*, **2014**, 5, 68-71	0.3	4
50	Origin, quantities and fate of nitrogen flows associated with animal production. *Advances in Animal Biosciences*, **2014**, 5, 28-48	0.3	6
49	Odour and Life Cycle Assessment (LCA) in Waste Management: A Local Assessment Proposal. *Waste and Biomass Valorization*, **2013**, 4, 607-617	3.2	16
48	Feasibility and interest of the anammox process as treatment alternative for anaerobic digester supernatants in manure processing--an overview. *Journal of Environmental Management*, **2013**, 131, 170-84	7.9	86
47	Optimization of struvite precipitation in synthetic biologically treated swine wastewater--determination of the optimal process parameters. *Journal of Hazardous Materials*, **2013**, 244-245, 357-69	12.8	103
46	Caract□istiques des substrats et interactions dans les fili□es de co-digestion´: cas particulier des co-substrats d'origine agro-industrielle. *Sciences Eaux & Territoires*, **2013**, Num□o 12, 44	0.5	2
45	La m□hanisation en milieu rural et ses perspectives de d□veloppement en France. *Sciences Eaux & Territoires*, **2013**, Num□o 12, 6	0.5	
44	Anaerobic co-digestion of waste activated sludge and greasy sludge from flotation process: batch versus CSTR experiments to investigate optimal design. *Bioresource Technology*, **2012**, 105, 1-8	11	92
43	A waste characterisation procedure for ADM1 implementation based on degradation kinetics. *Water Research*, **2012**, 46, 4099-110	12.5	60
42	Prediction of hydrogen sulphide production during anaerobic digestion of organic substrates. *Bioresource Technology*, **2012**, 121, 419-24	11	67
41	Sulphur fate and anaerobic biodegradation potential during co-digestion of seaweed biomass (Ulva sp.) with pig slurry. *Bioresource Technology*, **2011**, 102, 10794-802	11	73

40	Combined anaerobic and activated sludge anoxic/oxic treatment for piggery wastewater. *Bioresource Technology*, **2011**, 102, 2185-92	11	45
39	Anaerobic hydrolysis and acidification of organic substrates: determination of anaerobic hydrolytic potential. *Bioresource Technology*, **2011**, 102, 5653-8	11	31
38	Biochemical methane potential (BMP) of solid organic substrates: evaluation of anaerobic biodegradability using data from an international interlaboratory study. *Journal of Chemical Technology and Biotechnology*, **2011**, 86, 1088-1098	3.5	337
37	Nitrogen removal via nitrite pathway and the related nitrous oxide emission during piggery wastewater treatment. *Bioresource Technology*, **2011**, 102, 4042-6	11	36
36	Combination of batch experiments with continuous reactor data for ADM1 calibration: application to anaerobic digestion of pig slurry. *Water Science and Technology*, **2011**, 63, 2575-82	2.2	30
35	Modelling of manure production by pigs and NH3, N2O and CH4 emissions. Part II: effect of animal housing, manure storage and treatment practices. *Animal*, **2010**, 4, 1413-24	3.1	51
34	Fractionnement de la matière organique du lisier de porc par couplage de la respirométrie et de la modélisation. *Water Quality Research Journal of Canada*, **2010**, 45, 403-411	1.7	
33	Region-specific assessment of greenhouse gas mitigation with different manure management strategies in four agroecological zones. *Global Change Biology*, **2009**, 15, 2825-2837	11.4	56
32	Challenges and innovations on biological treatment of livestock effluents. *Bioresource Technology*, **2009**, 100, 5431-6	11	118
31	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. *Bioresource Technology*, **2009**, 100, 3678-87	11	9
30	The efficiency of biological aerobic treatment of piggery wastewater to control nitrogen, phosphorus, pathogen and gas emissions. *Water Science and Technology*, **2008**, 57, 1909-14	2.2	14
29	Combined anaerobic digestion and biological nitrogen removal for piggery wastewater treatment: a modelling approach. *Water Science and Technology*, **2008**, 58, 133-41	2.2	17
28	Nitrite effect on nitrous oxide emission from denitrifying activated sludge. *Process Biochemistry*, **2008**, 43, 683-689	4.8	77
27	The effect of incubation conditions on the laboratory measurement of the methane producing capacity of livestock wastes. *Bioresource Technology*, **2008**, 99, 146-55	11	100
26	Relevance of a perchloric acid extraction scheme to determine mineral and organic phosphorus in swine slurry. *Bioresource Technology*, **2008**, 99, 1319-24	11	13
25	Modelling of biological processes during aerobic treatment of piggery wastewater aiming at process optimisation. *Bioresource Technology*, **2007**, 98, 3298-308	11	30
24	Influence of pH and Biological Metabolism on Dissolved Phosphorus during Biological Treatment of Piggery Wastewater. *Biosystems Engineering*, **2007**, 96, 379-386	4.8	20
23	Effect of Nitrification on Phosphorus dissolving in a Piggery Effluent treated by a Sequencing Batch Reactor. *Biosystems Engineering*, **2007**, 96, 551-557	4.8	7

22	Gaseous Emissions (NH3, N2O, CH4 and CO2) from the aerobic treatment of piggery slurryComparison with a conventional storage system. *Biosystems Engineering*, **2007**, 97, 472-480	4.8	51
21	Modelling of biological nitrogen removal during treatment of piggery wastewater. *Water Science and Technology*, **2007**, 55, 11-9	2.2	3
20	Recycling of livestock manure in a whole-farm perspective. *Livestock Science*, **2007**, 112, 180-191	1.7	177
19	A French inventory of gaseous emissions (CH4, N2O, NH3) from livestock manure management using a mass-flow approach. *Livestock Science*, **2007**, 112, 252-260	1.7	44
18	Gaseous emissions (NH3, N2O, CH4, CO2) during pig slurry biological aerobic treatment and treatment by-product storages. *International Congress Series*, **2006**, 1293, 299-302		6
17	Monitoring GHG from manure stores on organic and conventional dairy farms. *Agriculture, Ecosystems and Environment*, **2006**, 112, 122-128	5.7	58
16	Piggery wastewater characterisation for biological nitrogen removal process design. *Bioresource Technology*, **2005**, 96, 351-8	11	68
15	In situ measurement of ammonia and greenhouse gas emissions from broiler houses in France. *Bioresource Technology*, **2005**, 96, 203-7	11	38
14	Activated Sludge Model No. 1 calibration for piggery wastewater treatment using respirometry. *Water Science and Technology*, **2004**, 49, 389-396	2.2	7
13	THE EFFECT OF PHYTASE IN PIG DIET AND SOLID/LIQUID SEPARATION OF PIG SLURRY ON PHOSPHORUS, CALCIUM, AND MAGNESIUM FRACTIONATION. *Transactions of the American Society of Agricultural Engineers*, **2004**, 47, 1247-1253		9
12	BIOLOGICAL AEROBIC TREATMENT OF PIG SLURRY IN FRANCE: NUTRIENTS REMOVAL EFFICIENCY AND SEPARATION PERFORMANCES. *Transactions of the American Society of Agricultural Engineers*, **2004**, 47, 857-864		28
11	Volatile fatty acids analysis from pig slurry using high-performance liquid chromatography. *International Journal of Environmental Analytical Chemistry*, **2004**, 84, 1017-1022	1.8	36
10	Activated Sludge Model No. 1 calibration for piggery wastewater treatment using respirometry. *Water Science and Technology*, **2004**, 49, 389-95	2.2	
9	Fate of phosphorus from biological aerobic treatment of pig slurry. By-products characterization and recovery. *Environmental Technology (United Kingdom)*, **2003**, 24, 1323-30	2.6	3
8	Nitrogen transformations during biological aerobic treatment of pig slurry: effect of intermittent aeration on nitrous oxide emissions. *Bioresource Technology*, **2002**, 83, 225-8	11	53
7	Gestion de l'azote en syst?me d'?levage d?velopp?. Enjeux scientifiques et environnementauxNitrogen management from intensive livestock production : scientific and environmental issues. *Natures Sciences Societes*, **2002**, 10, 52-61	0.2	
6	Application of the 15N technique to determine the contributions of nitrification and denitrification to the flux of nitrous oxide from aerated pig slurry. *Water Research*, **2001**, 35, 2774-8	12.5	54
5	Nitrogen transformations and ammonia loss following injection and surface application of pig slurry: a laboratory experiment using slurry labelled with 15N-ammonium. *Journal of Agricultural Science*, **2001**, 136, 231-240	1	23

4	Ultrafiltration and reverse osmosis of small non-charged molecules: a comparison study of rejection in a stirred and an unstirred batch cell. *Journal of Membrane Science*, **2000**, 164, 141-155	9.6	22
3	A Floating Chamber for estimating Nitrous Oxide Emissions from Farm Scale Treatment Units for Livestock Wastes. *Biosystems Engineering*, **1999**, 73, 101-104		10
2	Factors affecting Nitrogen Transformations and Related Nitrous Oxide Emissions from Aerobically Treated Piggery Slurry. *Biosystems Engineering*, **1999**, 73, 235-243		55
1	Nitrogen transformations during anaerobically stored 15N-labelled pig slurry. *Bioresource Technology*, **1998**, 64, 83-88	11	35