Francisco Omil

List of Publications by Year
in descending order

73 papers	7,274 citations	76326 40 h-index	79698 73 g-index
76 all docs	76 docs citations	76 times ranked	6564 citing authors

#	Article	IF	Citations
1	Cometabolic removal of organic micropollutants by enriched nitrite-dependent anaerobic methane oxidizing cultures. Journal of Hazardous Materials, 2021, 402, 123450.	12.4	16
2	A new decentralized biological treatment process based on activated carbon targeting organic micropollutant removal from hospital wastewaters. Environmental Science and Pollution Research, 2020, 27, 1214-1223.	5.3	10
3	Integrating granular activated carbon in the post-treatment of membrane and settler effluents to improve organic micropollutants removal. Chemical Engineering Journal, 2018, 345, 79-86.	12.7	36
4	What happens with organic micropollutants during UV disinfection in WWTPs? A global perspective from laboratory to full-scale. Journal of Hazardous Materials, 2018, 342, 670-678.	12.4	29
5	Understanding the sorption and biotransformation of organic micropollutants in innovative biological wastewater treatment technologies. Science of the Total Environment, 2018, 615, 297-306.	8.0	146
6	Trends in organic micropollutants removal in secondary treatment of sewage. Reviews in Environmental Science and Biotechnology, 2018, 17, 447-469.	8.1	41
7	An innovative wastewater treatment technology based on UASB and IFAS for cost-efficient macro and micropollutant removal. Journal of Hazardous Materials, 2018, 359, 113-120.	12.4	55
8	Diffuse methane emissions abatement by organic and inorganic packed biofilters: Assessment of operational and environmental indicators. Journal of Cleaner Production, 2017, 143, 1191-1202.	9.3	17
9	The potential of the innovative SeMPAC process for enhancing the removal of recalcitrant organic micropollutants. Journal of Hazardous Materials, 2016, 308, 29-36.	12.4	38
10	Biotransformation of pharmaceuticals under nitrification, nitratation and heterotrophic conditions. Science of the Total Environment, 2016, 541, 1439-1447.	8.0	125
11	A UASB reactor coupled to a hybrid aerobic MBR as innovative plant configuration to enhance the removal of organic micropollutants. Chemosphere, 2016, 144, 452-458.	8.2	77
12	Identifying the limitations of conventional biofiltration of diffuse methane emissions at long-term operation. Environmental Technology (United Kingdom), 2016, 37, 1947-1958.	2.2	17
13	Role of biotransformation, sorption and mineralization of 14C-labelled sulfamethoxazole under different redox conditions. Science of the Total Environment, 2016, 542, 706-715.	8.0	84
14	Risk assessment of persistent pharmaceuticals in biosolids: Dealing with uncertainty. Journal of Hazardous Materials, 2016, 302, 72-81.	12.4	35
15	EPS and SMP as Stability Indicators During the Biofiltration of Diffuse Methane Emissions. Water, Air, and Soil Pollution, 2015, 226, 1.	2.4	18
16	Strategies to minimize the release of endotoxins in effluents from sewage treatment plants. Environmental Progress and Sustainable Energy, 2015, 34, 432-436.	2.3	5
17	Characterization and biological abatement of diffuse methane emissions and odour in an innovative wastewater treatment plant. Environmental Technology (United Kingdom), 2015, 36, 2105-2114.	2.2	5
18	Removal of PPCPs from the sludge supernatant in a one stage nitritation/anammox process. Water Research, 2015, 68, 701-709.	11.3	78

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19	Modelling cometabolic biotransformation of organic micropollutants in nitrifying reactors. Water Research, 2014, 65, 371-383.	11.3	68
20	Understanding the removal mechanisms of PPCPs and the influence of main technological parameters in anaerobic UASB and aerobic CAS reactors. Journal of Hazardous Materials, 2014, 278, 506-513.	12.4	224
21	PPCPs in wastewater â€“ Update and calculation of characterization factors for their inclusion in LCA studies. Journal of Cleaner Production, 2014, 83, 245-255.	9.3	53
22	Inhibition of biomass activity in the via nitrite nitrogen removal processes by veterinary pharmaceuticals. Bioresource Technology, 2014, 152, 477-483.	9.6	30
23	Application of a threeâ€compartment model as a tool to understand the partition of 17Î±â€ethinylestradiol in mixed liquor systems. Environmental Progress and Sustainable Energy, 2013, 32, 257-262.	2.3	2
24	Economic valuation of environmental benefits of removing pharmaceutical and personal care products from WWTP effluents by ozonation. Science of the Total Environment, 2013, 461-462, 409-415.	8.0	29
25	Environmental assessment of different biofilters for the treatment of gaseous streams. Journal of Environmental Management, 2013, 129, 463-470.	7.8	13
26	Biodegradation kinetic constants and sorption coefficients of micropollutants in membrane bioreactors. Biodegradation, 2013, 24, 165-177.	3.0	82
27	Removal of Pharmaceuticals by Membrane Bioreactor (MBR) Technology. Comprehensive Analytical Chemistry, 2013, , 287-317.	1.3	8
28	Influence of nitrifying conditions on the biodegradation andÂsorption of emerging micropollutants. Water Research, 2012, 46, 5434-5444.	11.3	225
29	Molecular and physiological approaches to understand the ecology of methanol degradation during the biofiltration of air streams. Chemosphere, 2012, 87, 1179-1185.	8.2	19
30	Mass balance of pharmaceutical and personal care products in a pilot-scale single-sludge system: Influence of T, SRT and recirculation ratio. Chemosphere, 2012, 89, 164-171.	8.2	89
31	Occurrence and fate of pharmaceutical and personal care products in a sewage treatment works. Journal of Environmental Monitoring, 2011, 13, 137-144.	2.1	17
32	Removal of persistent pharmaceutical micropollutants from sewage by addition of PAC in a sequential membrane bioreactor. Water Research, 2011, 45, 5323-5333.	11.3	119
33	Comparison of PPCPs removal on a parallel-operated MBR and AS system and evaluation of effluent post-treatment on vertical flow reed beds. Water Science and Technology, 2011, 63, 2411-2417.	2.5	48
34	Biofiltration of methanol in an organic biofilter using peanut shells as medium. Bioresource Technology, 2010, 101, 87-91.	9.6	39
35	The effect and fate of antibiotics during the anaerobic digestion of pig manure. Bioresource Technology, 2010, 101, 8581-8586.	9.6	182
36	Influence of the employment of adsorption and coprecipitation agents for the removal of PPCPs in conventional activated sludge (CAS) systems. Water Science and Technology, 2010, 62, 728-735.	2.5	27

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37	Criteria for Designing Sewage Treatment Plants for Enhanced Removal of Organic Micropollutants. Environmental Pollution, 2010, , 283-306.	0.4	9
38	Removal of Pharmaceutical and Personal Care Products (PPCPs) under nitrifying and denitrifying conditions. Water Research, 2010, 44, 3214-3224.	11.3	406
39	Environmental assessment of anaerobically digested sludge reuse in agriculture: Potential impacts of emerging micropollutants. Water Research, 2010, 44, 3225-3233.	11.3	121
40	Fate and removal of pharmaceuticals and personal care products (PPCPs) in a conventional activated sludge treatment process. , 2010, , .		8
41	Influence of Different Pretreatments on Anaerobically Digested Sludge Characteristics: Suitability for Final Disposal. Water, Air, and Soil Pollution, 2009, 199, 311-321.	2.4	41
42	Pre-treatment of hospital wastewater by coagulationâ€“flocculation and flotation. Bioresource Technology, 2009, 100, 2138-2146.	9.6	264
43	How are pharmaceutical and personal care products (PPCPs) removed from urban wastewaters?. Reviews in Environmental Science and Biotechnology, 2008, 7, 125-138.	8.1	365
44	Biofiltration of a methanol containing air stream in a dry tubular biofilm reactor using ceramic rings as carrier. Environmental Progress, 2008, 27, 117-124.	0.7	4
45	Fate of pharmaceuticals and cosmetic ingredients during the operation of a MBR treating sewage. Desalination, 2008, 221, 511-517.	8.2	147
46	Determination of the solidâ€“water distribution coefficient (Kd) for pharmaceuticals, estrogens and musk fragrances in digested sludge. Water Research, 2008, 42, 287-295.	11.3	265
47	Comparison of predicted and measured concentrations of selected pharmaceuticals, fragrances and hormones in Spanish sewage. Chemosphere, 2008, 72, 1118-1123.	8.2	154
48	Fate of pharmaceutical and personal care products (PPCPs) during anaerobic digestion of sewage sludge. Water Research, 2007, 41, 2139-2150.	11.3	332
49	Kinetics of triclosan oxidation by aqueous ozone and consequent loss of antibacterial activity: Relevance to municipal wastewater ozonation. Water Research, 2007, 41, 2481-2490.	11.3	124
50	Influence of ozone pre-treatment on sludge anaerobic digestion: Removal of pharmaceutical and personal care products. Chemosphere, 2007, 67, 1444-1452.	8.2	117
51	Calculation Methods to Perform Mass Balances of Micropollutants in Sewage Treatment Plants. Application to Pharmaceutical and Personal Care Products (PPCPs). Environmental Science & Technology, 2007, 41, 884-890.	10.0	88
52	Comparison between the conventional anaerobic digestion of sewage sludge and its combination with a chemical or thermal pre-treatment concerning the removal of pharmaceuticals and personal care products. Water Science and Technology, 2006, 53, 109-117.	2.5	98
53	Anaerobic treatment of azo dye Acid Orange 7 under batch conditions. Enzyme and Microbial Technology, 2005, 36, 264-272.	3.2	79
54	Anaerobic treatment of azo dye Acid Orange 7 under fed-batch and continuous conditions. Water Research, 2005, 39, 771-778.	11.3	107

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55	Removal of cosmetic ingredients and pharmaceuticals in sewage primary treatment. Water Research, 2005, 39, 4790-4796.	11.3	229
56	Advanced Monitoring and Supervision of Biological Treatment of Complex Dairy Effluents in a Full-Scale Plant. Biotechnology Progress, 2004, 20, 992-997.	2.6	9
57	Behavior of pharmaceuticals, cosmetics and hormones in a sewage treatment plant. Water Research, 2004, 38, 2918-2926.	11.3	1,277
58	Clean production in fish canning industries: recovery and reuse of selected wastes. Clean Technologies and Environmental Policy, 2003, 5, 289-294.	4.1	31
59	Anaerobic filter reactor performance for the treatment of complex dairy wastewater at industrial scale. Water Research, 2003, 37, 4099-4108.	11.3	130
60	Toxic effects exerted on methanogenic, nitrifying and denitrifying bacteria by chemicals used in a milk analysis laboratory. Enzyme and Microbial Technology, 2002, 31, 976-985.	3.2	38
61	Anaerobic treatment of fibreboard manufacturing wastewaters in a pilot scale hybrid usbf reactor. Water Research, 2001, 35, 4150-4158.	11.3	27
62	Treatment of methanol in a dry biofilm reactor using tubular carrier. Water Science and Technology, 2000, 42, 419-427.	2.5	5
63	Biodegradation of formaldehyde under anaerobic conditions. Enzyme and Microbial Technology, 1999, 24, 255-262.	3.2	37
64	Continuous anaerobic treatment of wastewaters containing formaldehyde and urea. Bioresource Technology, 1999, 70, 283-291.	9.6	50
65	Anaerobic hydrolysis and acidogenesis of wastewaters from food industries with high content of organic solids and protein. Water Research, 1999, 33, 3281-3290.	11.3	128
66	Protein recovery during the overall treatment of wastewaters from fish-meal factories. Bioresource Technology, 1998, 63, 221-229.	9.6	53
67	Effect of pH and Low Temperature Shocks on the Competition between Sulphate Reducing Bacteria and Methane Producing Bacteria in UASB Reactors. Environmental Technology (United Kingdom), 1997, 18, 255-264.	2.2	24
68	Effect of the inoculation with Desulforhabdus amnigenus and pH or O2 shocks on the competition between sulphate reducing and methanogenic bacteria in an acetate fed UASB reactor. Bioresource Technology, 1997, 60, 113-122.	9.6	38
69	Treatment of saline wastewaters from fish meal factories in an anaerobic filter under extreme ammonia concentrations. Bioresource Technology, 1997, 61, 69-78.	9.6	55
70	Characterization of biomass from a sulfidogenic, volatile fatty acid-degrading granular sludge reactor. Enzyme and Microbial Technology, 1997, 20, 229-236.	3.2	39
71	Effect of upward velocity and sulphide concentration on volatile fatty acid degradation in a sulphidogenic granular sludge reactor. Process Biochemistry, 1996, 31, 699-710.	3.7	122
72	Characterization of biomass from a pilot plant digester treating saline wastewater. Journal of Chemical Technology and Biotechnology, 1995, 63, 384-392.	3.2	27

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73	Anaerobic treatment of saline wastewaters under high sulphide and ammonia content. Bioresource Technology, 1995, 54, 269-278.	9.6	116