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	Behavior of pharmaceuticals, cosmetics and hormones in a sewage treatment plant. Water Research, 2004, 38, 2918-2926.	11.3	1,277
2	Removal of Pharmaceutical and Personal Care Products (PPCPs) under nitrifying and denitrifying conditions. Water Research, 2010, 44, 3214-3224.	11.3	406
3	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
4	Fate of pharmaceutical and personal care products (PPCPs) during anaerobic digestion of sewage sludge. Water Research, 2007, 41, 2139-2150.	11.3	332
5	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
6	Pre-treatment of hospital wastewater by coagulationâ€“flocculation and flotation. Bioresource Technology, 2009, 100, 2138-2146.	9.6	264
7	Removal of cosmetic ingredients and pharmaceuticals in sewage primary treatment. Water Research, 2005, 39, 4790-4796.	11.3	229
8	Influence of nitrifying conditions on the biodegradation andÂsorption of emerging micropollutants. Water Research, 2012, 46, 5434-5444.	11.3	225
9	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
10	The effect and fate of antibiotics during the anaerobic digestion of pig manure. Bioresource Technology, 2010, 101, 8581-8586.	9.6	182
11	Comparison of predicted and measured concentrations of selected pharmaceuticals, fragrances and hormones in Spanish sewage. Chemosphere, 2008, 72, 1118-1123.	8.2	154
12	Fate of pharmaceuticals and cosmetic ingredients during the operation of a MBR treating sewage. Desalination, 2008, 221, 511-517.	8.2	147
13	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
14	Anaerobic filter reactor performance for the treatment of complex dairy wastewater at industrial scale. Water Research, 2003, 37, 4099-4108.	11.3	130
15	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
16	Biotransformation of pharmaceuticals under nitrification, nitratation and heterotrophic conditions. Science of the Total Environment, 2016, 541, 1439-1447.	8.0	125
17	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
18	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

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19	Environmental assessment of anaerobically digested sludge reuse in agriculture: Potential impacts of emerging micropollutants. Water Research, 2010, 44, 3225-3233.	11.3	121
20	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
21	Influence of ozone pre-treatment on sludge anaerobic digestion: Removal of pharmaceutical and personal care products. Chemosphere, 2007, 67, 1444-1452.	8.2	117
22	Anaerobic treatment of saline wastewaters under high sulphide and ammonia content. Bioresource Technology, 1995, 54, 269-278.	9.6	116
23	Anaerobic treatment of azo dye Acid Orange 7 under fed-batch and continuous conditions. Water Research, 2005, 39, 771-778.	11.3	107
24	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
25	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
26	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
27	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
28	Biodegradation kinetic constants and sorption coefficients of micropollutants in membrane bioreactors. Biodegradation, 2013, 24, 165-177.	3.0	82
29	Anaerobic treatment of azo dye Acid Orange 7 under batch conditions. Enzyme and Microbial Technology, 2005, 36, 264-272.	3.2	79
30	Removal of PPCPs from the sludge supernatant in a one stage nitritation/anammox process. Water Research, 2015, 68, 701-709.	11.3	78
31	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
32	Modelling cometabolic biotransformation of organic micropollutants in nitrifying reactors. Water Research, 2014, 65, 371-383.	11.3	68
33	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
34	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
35	Protein recovery during the overall treatment of wastewaters from fish-meal factories. Bioresource Technology, 1998, 63, 221-229.	9.6	53
36	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

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37	Continuous anaerobic treatment of wastewaters containing formaldehyde and urea. Bioresource Technology, 1999, 70, 283-291.	9.6	50
38	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
39	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
40	Trends in organic micropollutants removal in secondary treatment of sewage. Reviews in Environmental Science and Biotechnology, 2018, 17, 447-469.	8.1	41
41	Characterization of biomass from a sulfidogenic, volatile fatty acid-degrading granular sludge reactor. Enzyme and Microbial Technology, 1997, 20, 229-236.	3.2	39
42	Biofiltration of methanol in an organic biofilter using peanut shells as medium. Bioresource Technology, 2010, 101, 87-91.	9.6	39
43	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
44	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
45	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
46	Biodegradation of formaldehyde under anaerobic conditions. Enzyme and Microbial Technology, 1999, 24, 255-262.	3.2	37
47	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
48	Risk assessment of persistent pharmaceuticals in biosolids: Dealing with uncertainty. Journal of Hazardous Materials, 2016, 302, 72-81.	12.4	35
49	Clean production in fish canning industries: recovery and reuse of selected wastes. Clean Technologies and Environmental Policy, 2003, 5, 289-294.	4.1	31
50	Inhibition of biomass activity in the via nitrite nitrogen removal processes by veterinary pharmaceuticals. Bioresource Technology, 2014, 152, 477-483.	9.6	30
51	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
52	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
53	Characterization of biomass from a pilot plant digester treating saline wastewater. Journal of Chemical Technology and Biotechnology, 1995, 63, 384-392.	3.2	27
54	Anaerobic treatment of fibreboard manufacturing wastewaters in a pilot scale hybrid usbf reactor. Water Research, 2001, 35, 4150-4158.	11.3	27

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55	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
56	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
57	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
58	EPS and SMP as Stability Indicators During the Biofiltration of Diffuse Methane Emissions. Water, Air, and Soil Pollution, 2015, 226, 1.	2.4	18
59	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
60	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
61	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
62	Cometabolic removal of organic micropollutants by enriched nitrite-dependent anaerobic methane oxidizing cultures. Journal of Hazardous Materials, 2021, 402, 123450.	12.4	16
63	Environmental assessment of different biofilters for the treatment of gaseous streams. Journal of Environmental Management, 2013, 129, 463-470.	7.8	13
64	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
65	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
66	Criteria for Designing Sewage Treatment Plants for Enhanced Removal of Organic Micropollutants. Environmental Pollution, 2010, , 283-306.	0.4	9
67	Removal of Pharmaceuticals by Membrane Bioreactor (MBR) Technology. Comprehensive Analytical Chemistry, 2013, , 287-317.	1.3	8
68	Fate and removal of pharmaceuticals and personal care products (PPCPs) in a conventional activated sludge treatment process. , 2010, , .		8
69	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
70	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
71	Treatment of methanol in a dry biofilm reactor using tubular carrier. Water Science and Technology, 2000, 42, 419-427.	2.5	5
72	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

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73	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