Hector Monclús

List of Publications by Year
in descending order

39 papers	1,334 citations	394286 19 h-index	345118 36 g-index
39 all docs	39 docs citations	39 times ranked	1775 citing authors

#	Article	IF	Citations
1	Comparison of removal of pharmaceuticals in MBR and activated sludge systems. Desalination, 2010, 250, 653-659.	4.0	289
2	Biological nutrient removal in an MBR treating municipal wastewater with special focus on biological phosphorus removal. Bioresource Technology, 2010, 101, 3984-3991.	4.8	129
3	Removal of microbial indicators from municipal wastewater by a membrane bioreactor (MBR). Bioresource Technology, 2011, 102, 5004-5009.	4.8	80
4	Selection between alcohols and volatile fatty acids as external carbon sources for EBPR. Water Research, 2008, 42, 557-566.	5.3	77
5	Triclosan, carbamazepine and caffeine removal by activated sludge system focusing on membrane bioreactor. Chemical Engineering Research and Design, 2018, 118, 1-9.	2.7	66
6	Retrofitting membrane bioreactor (MBR) into osmotic membrane bioreactor (OMBR): A pilot scale study. Chemical Engineering Journal, 2018, 339, 268-277.	6.6	57
7	When the fourth water and digital revolution encountered COVID-19. Science of the Total Environment, 2020, 744, 140980.	3.9	53
8	Granulated cork as biosorbent for the removal of phenol derivatives and emerging contaminants. Journal of Environmental Management, 2018, 223, 576-585.	3.8	50
9	Optimization of biological nutrient removal in a pilot plant UCT-MBR treating municipal wastewater during start-up. Desalination, 2010, 250, 592-597.	4.0	49
10	Online monitoring of membrane fouling in submerged MBRs. Desalination, 2011, 277, 414-419.	4.0	36
11	Towards integrated operation of membrane bioreactors: Effects of aeration on biological and filtration performance. Bioresource Technology, 2014, 171, 103-112.	4.8	36
12	Automatic control system for energy optimization in membrane bioreactors. Desalination, 2011, 268, 276-280.	4.0	35
13	Full-scale validation of an air scour control system for energy savings in membrane bioreactors. Water Research, 2015, 79, 1-9.	5.3	28
14	Nature-based solutions coupled with advanced technologies: An opportunity for decentralized water reuse in cities. Journal of Cleaner Production, 2022, 340, 130660.	4.6	28
15	Nitrogen removal from landfill leachate using the SBR technology. Environmental Technology (United Kingdom), 2009, 30, 283-290.	1.2	27
16	Fate of NDMA precursors through an MBR-NF pilot plant for urban wastewater reclamation and the effect of changing aeration conditions. Water Research, 2016, 102, 383-393.	5.3	26
17	Microbial fuel cell technology as a downstream process of a membrane bioreactor for sludge reduction. Chemical Engineering Journal, 2017, 326, 222-230.	6.6	26
18	Predicting the oxidant demand in full-scale drinking water treatment using an artificial neural network: Uncertainty and sensitivity analysis. Chemical Engineering Research and Design, 2019, 125, 317-327.	2.7	24

#	Article	IF	Citations
19	Criticality of Flux and Aeration for a Hollow Fiber Membrane Bioreactor. Separation Science and Technology, 2010, 45, 956-961.	1.3	20
20	Environmental Decision Support System for Biogas Upgrading to Feasible Fuel. Energies, 2019, 12, 1546.	1.6	18
21	Ragging phenomenon characterisation and impact in a full-scale MBR. Water Science and Technology, 2013, 67, 810-816.	1.2	17
22	A knowledge-based control system for air-scour optimisation in membrane bioreactors. Water Science and Technology, 2011, 63, 2025-2031.	1.2	15
23	Control of primary disinfection in a drinking water treatment plant based on a fuzzy inference system. Chemical Engineering Research and Design, 2021, 145, 63-70.	2.7	15
24	Knowledge-based control module for start-up of flat sheet MBRs. Bioresource Technology, 2012, 106, 50-54.	4.8	14
25	Knowledge-based system for automatic MBR control. Water Science and Technology, 2010, 62, 2829-2836.	1.2	13
26	Characterisation of RO fouling in an integrated MBR/RO system for wastewater reuse. Water Science and Technology, 2013, 67, 780-788.	1.2	13
27	Development of an Environmental Decision Support System for Enhanced Coagulation in Drinking Water Production. Water (Switzerland), 2020, 12, 2115.	1.2	13
28	Benchmarking empirical models for THMs formation in drinking water systems: An application for decision support in Barcelona, Spain. Science of the Total Environment, 2021, 763, 144197.	3.9	13
29	Optimizing chemical conditioning for odour removal of undigested sewage sludge in drying processes. Journal of Environmental Management, 2015, 150, 111-119.	3.8	12
30	Advanced control system for reverse osmosis optimization in water reuse systems. Desalination, 2021, 518, 115284.	4.0	12
31	Development of a control algorithm for airâ€scour reduction in membrane bioreactors for wastewater treatment. Journal of Chemical Technology and Biotechnology, 2011, 86, 784-789.	1.6	11
32	Implementation of an environmental decision support system for controlling the pre-oxidation step at a full-scale drinking water treatment plant. Water Science and Technology, 2020, 81, 1778-1785.	1.2	8
33	Effect of cycle changes on simultaneous biological nutrient removal in a sequencing batch reactor (SBR). Environmental Technology (United Kingdom), 2010, 31, 285-294.	1.2	7
34	On-line estimation of suspended solids in biological reactors of WWTPs using a Kalman observer. Water Science and Technology, 2009, 60, 567-574.	1.2	5
35	A step forward in the management of multiple wastewater streams by using an ant colony optimization-based method with bounded pheromone. Chemical Engineering Research and Design, 2016, 102, 799-809.	2.7	5
36	Submerged osmotic processes: Design and operation of hollow fiber forward osmosis modules. Desalination, 2021, 518, 115281.	4.0	4

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37	A new optimization model for wastewater treatment planning with a temporal component. Chemical Engineering Research and Design, 2020, 136, 157-168.	2.7	2
38	A Polydimethylsiloxane Rod Extraction-Based Method for the Determination of Pharmaceuticals and Triclosan by Liquid Chromatography in Water Samples. Bulletin of Environmental Contamination and Toxicology, 2020, 104, 107-113.	1.3	1
39	Development of an algorithm for air-scour optimization in membrane bioreactors. IFAC Postprint Volumes IPPV / International Federation of Automatic Control, 2011, 44, 3795-3799.	0.4	0