

Hector MonclÃ³s

List of Publications by Year in descending order

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Version: 2024-02-01

39
papers

1,334
citations

394286

19
h-index

345118

36
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39
all docs

39
docs citations

39
times ranked

1775
citing authors

#	ARTICLE	IF	CITATIONS
1	Nature-based solutions coupled with advanced technologies: An opportunity for decentralized water reuse in cities. <i>Journal of Cleaner Production</i> , 2022, 340, 130660.	4.6	28
2	Control of primary disinfection in a drinking water treatment plant based on a fuzzy inference system. <i>Chemical Engineering Research and Design</i> , 2021, 145, 63-70.	2.7	15
3	Benchmarking empirical models for THMs formation in drinking water systems: An application for decision support in Barcelona, Spain. <i>Science of the Total Environment</i> , 2021, 763, 144197.	3.9	13
4	Advanced control system for reverse osmosis optimization in water reuse systems. <i>Desalination</i> , 2021, 518, 115284.	4.0	12
5	Submerged osmotic processes: Design and operation of hollow fiber forward osmosis modules. <i>Desalination</i> , 2021, 518, 115281.	4.0	4
6	A Polydimethylsiloxane Rod Extraction-Based Method for the Determination of Pharmaceuticals and Triclosan by Liquid Chromatography in Water Samples. <i>Bulletin of Environmental Contamination and Toxicology</i> , 2020, 104, 107-113.	1.3	1
7	Development of an Environmental Decision Support System for Enhanced Coagulation in Drinking Water Production. <i>Water (Switzerland)</i> , 2020, 12, 2115.	1.2	13
8	When the fourth water and digital revolution encountered COVID-19. <i>Science of the Total Environment</i> , 2020, 744, 140980.	3.9	53
9	A new optimization model for wastewater treatment planning with a temporal component. <i>Chemical Engineering Research and Design</i> , 2020, 136, 157-168.	2.7	2
10	Implementation of an environmental decision support system for controlling the pre-oxidation step at a full-scale drinking water treatment plant. <i>Water Science and Technology</i> , 2020, 81, 1778-1785.	1.2	8
11	Environmental Decision Support System for Biogas Upgrading to Feasible Fuel. <i>Energies</i> , 2019, 12, 1546.	1.6	18
12	Predicting the oxidant demand in full-scale drinking water treatment using an artificial neural network: Uncertainty and sensitivity analysis. <i>Chemical Engineering Research and Design</i> , 2019, 125, 317-327.	2.7	24
13	Retrofitting membrane bioreactor (MBR) into osmotic membrane bioreactor (OMBR): A pilot scale study. <i>Chemical Engineering Journal</i> , 2018, 339, 268-277.	6.6	57
14	Triclosan, carbamazepine and caffeine removal by activated sludge system focusing on membrane bioreactor. <i>Chemical Engineering Research and Design</i> , 2018, 118, 1-9.	2.7	66
15	Granulated cork as biosorbent for the removal of phenol derivatives and emerging contaminants. <i>Journal of Environmental Management</i> , 2018, 223, 576-585.	3.8	50
16	Microbial fuel cell technology as a downstream process of a membrane bioreactor for sludge reduction. <i>Chemical Engineering Journal</i> , 2017, 326, 222-230.	6.6	26
17	Fate of NDMA precursors through an MBR-NF pilot plant for urban wastewater reclamation and the effect of changing aeration conditions. <i>Water Research</i> , 2016, 102, 383-393.	5.3	26
18	A step forward in the management of multiple wastewater streams by using an ant colony optimization-based method with bounded pheromone. <i>Chemical Engineering Research and Design</i> , 2016, 102, 799-809.	2.7	5

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19	Full-scale validation of an air scour control system for energy savings in membrane bioreactors. <i>Water Research</i> , 2015, 79, 1-9.	5.3	28
20	Optimizing chemical conditioning for odour removal of undigested sewage sludge in drying processes. <i>Journal of Environmental Management</i> , 2015, 150, 111-119.	3.8	12
21	Towards integrated operation of membrane bioreactors: Effects of aeration on biological and filtration performance. <i>Bioresource Technology</i> , 2014, 171, 103-112.	4.8	36
22	Characterisation of RO fouling in an integrated MBR/RO system for wastewater reuse. <i>Water Science and Technology</i> , 2013, 67, 780-788.	1.2	13
23	Ragging phenomenon characterisation and impact in a full-scale MBR. <i>Water Science and Technology</i> , 2013, 67, 810-816.	1.2	17
24	Knowledge-based control module for start-up of flat sheet MBRs. <i>Bioresource Technology</i> , 2012, 106, 50-54.	4.8	14
25	Development of an algorithm for air-scour optimization in membrane bioreactors. <i>IFAC Postprint Volumes IPPV / International Federation of Automatic Control</i> , 2011, 44, 3795-3799.	0.4	0
26	Development of a control algorithm for air-scour reduction in membrane bioreactors for wastewater treatment. <i>Journal of Chemical Technology and Biotechnology</i> , 2011, 86, 784-789.	1.6	11
27	Removal of microbial indicators from municipal wastewater by a membrane bioreactor (MBR). <i>Bioresource Technology</i> , 2011, 102, 5004-5009.	4.8	80
28	Automatic control system for energy optimization in membrane bioreactors. <i>Desalination</i> , 2011, 268, 276-280.	4.0	35
29	Online monitoring of membrane fouling in submerged MBRs. <i>Desalination</i> , 2011, 277, 414-419.	4.0	36
30	A knowledge-based control system for air-scour optimisation in membrane bioreactors. <i>Water Science and Technology</i> , 2011, 63, 2025-2031.	1.2	15
31	Knowledge-based system for automatic MBR control. <i>Water Science and Technology</i> , 2010, 62, 2829-2836.	1.2	13
32	Biological nutrient removal in an MBR treating municipal wastewater with special focus on biological phosphorus removal. <i>Bioresource Technology</i> , 2010, 101, 3984-3991.	4.8	129
33	Comparison of removal of pharmaceuticals in MBR and activated sludge systems. <i>Desalination</i> , 2010, 250, 653-659.	4.0	289
34	Optimization of biological nutrient removal in a pilot plant UCT-MBR treating municipal wastewater during start-up. <i>Desalination</i> , 2010, 250, 592-597.	4.0	49
35	Effect of cycle changes on simultaneous biological nutrient removal in a sequencing batch reactor (SBR). <i>Environmental Technology (United Kingdom)</i> , 2010, 31, 285-294.	1.2	7
36	Criticality of Flux and Aeration for a Hollow Fiber Membrane Bioreactor. <i>Separation Science and Technology</i> , 2010, 45, 956-961.	1.3	20

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37	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
38	Nitrogen removal from landfill leachate using the SBR technology. Environmental Technology (United Kingdom), 2009, 30, 283-290.	1.2	27
39	Selection between alcohols and volatile fatty acids as external carbon sources for EBPR. Water Research, 2008, 42, 557-566.	5.3	77