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List of Publications by Year
in descending order

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63 papers	1,985 citations	218592 26 h-index	254106 43 g-index
63 all docs	63 docs citations	63 times ranked	1507 citing authors

#	Article	IF	Citations
1	Unraveling the literature chaos around free ammonia inhibition in anaerobic digestion. Renewable and Sustainable Energy Reviews, 2020, 117, 109487.	8.2	167
2	Experimental study of the anaerobic urban wastewater treatment in a submerged hollow-fibre membrane bioreactor at pilot scale. Bioresource Technology, 2011, 102, 8799-8806.	4.8	159
3	New frontiers from removal to recycling of nitrogen and phosphorus from wastewater in the Circular Economy. Bioresource Technology, 2020, 300, 122673.	4.8	127
4	Instrumentation and control of anaerobic digestion processes: a review and some research challenges. Reviews in Environmental Science and Biotechnology, 2015, 14, 615-648.	3.9	118
5	A review on anaerobic membrane bioreactors (AnMBRs) focused on modelling and control aspects. Bioresource Technology, 2018, 270, 612-626.	4.8	106
6	The operating cost of an anaerobic membrane bioreactor (AnMBR) treating sulphate-rich urban wastewater. Separation and Purification Technology, 2014, 126, 30-38.	3.9	86
7	Economic and environmental sustainability of submerged anaerobic MBR-based (AnMBR-based) technology as compared to aerobic-based technologies for moderate-/high-loaded urban wastewater treatment. Journal of Environmental Management, 2016, 166, 45-54.	3.8	69
8	Factors that affect the permeability of commercial hollow-fibre membranes in a submerged anaerobic MBR (HF-SAnMBR) system. Water Research, 2013, 47, 1277-1288.	5.3	68
9	Sub-critical filtration conditions of commercial hollow-fibre membranes in a submerged anaerobic MBR (HF-SAnMBR) system: The effect of gas sparging intensity. Bioresource Technology, 2012, 114, 247-254.	4.8	60
10	Resource recovery from sulphate-rich sewage through an innovative anaerobic-based water resource recovery facility (WRRF). Water Science and Technology, 2018, 78, 1925-1936.	1.2	53
11	Water resource recovery by means of microalgae cultivation in outdoor photobioreactors using the effluent from an anaerobic membrane bioreactor fed with pre-treated sewage. Bioresource Technology, 2016, 218, 447-454.	4.8	51
12	Optimising an outdoor membrane photobioreactor for tertiary sewage treatment. Journal of Environmental Management, 2019, 245, 76-85.	3.8	50
13	Performance of an outdoor membrane photobioreactor for resource recovery from anaerobically treated sewage. Journal of Cleaner Production, 2018, 178, 665-674.	4.6	45
14	Environmental impact of submerged anaerobic MBR (SAnMBR) technology used to treat urban wastewater at different temperatures. Bioresource Technology, 2013, 149, 532-540.	4.8	43
15	Design methodology for submerged anaerobic membrane bioreactors (AnMBR): A case study. Separation and Purification Technology, 2015, 141, 378-386.	3.9	43
16	Economic and environmental sustainability of an AnMBR treating urban wastewater and organic fraction of municipal solid waste. Journal of Environmental Management, 2016, 179, 83-92.	3.8	40
17	Short and long-term experiments on the effect of sulphide on microalgae cultivation in tertiary sewage treatment. Bioresource Technology, 2017, 244, 15-22.	4.8	37
18	PDMS membranes for feasible recovery of dissolved methane from AnMBR effluents. Journal of Membrane Science, 2020, 604, 118070.	4.1	37

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19	Microalgae-bacteria consortia in high-rate ponds for treating urban wastewater: Elucidating the key state indicators under dynamic conditions. Journal of Environmental Management, 2020, 261, 110244.	3.8	35
20	Performance of industrial scale hollow-fibre membranes in a submerged anaerobic MBR (HF-SAnMBR) system at mesophilic and psychrophilic conditions. Separation and Purification Technology, 2013, 104, 290-296.	3.9	34
21	Anaerobic membrane bioreactors (AnMBR) treating urban wastewater in mild climates. Bioresource Technology, 2020, 314, 123763.	4.8	32
22	A filtration model applied to submerged anaerobic MBRs (SAnMBRs). Journal of Membrane Science, 2013, 444, 139-147.	4.1	31
23	Performance of a membrane-coupled high-rate algal pond for urban wastewater treatment at demonstration scale. Bioresource Technology, 2020, 301, 122672.	4.8	28
24	Micropollutants removal in an anaerobic membrane bioreactor and in an aerobic conventional treatment plant. Water Science and Technology, 2012, 65, 2242-2250.	1.2	27
25	Designing an AnMBR-based WWTP for energy recovery from urban wastewater: The role of primary settling and anaerobic digestion. Separation and Purification Technology, 2015, 156, 132-139.	3.9	27
26	Advanced control system for optimal filtration in submerged anaerobic MBRs (SAnMBRs). Journal of Membrane Science, 2013, 430, 330-341.	4.1	26
27	Sub-critical long-term operation of industrial scale hollow-fibre membranes in a submerged anaerobic MBR (HF-SAnMBR) system. Separation and Purification Technology, 2012, 100, 88-96.	3.9	25
28	Anaerobic treatment of urban wastewater in membrane bioreactors: evaluation of seasonal temperature variations. Water Science and Technology, 2014, 69, 1581-1588.	1.2	23
29	Model-based automatic tuning of a filtration control system for submerged anaerobic membrane bioreactors (AnMBR). Journal of Membrane Science, 2014, 465, 14-26.	4.1	22
30	Instrumentation, control, and automation for submerged anaerobic membrane bioreactors. Environmental Technology (United Kingdom), 2015, 36, 1795-1806.	1.2	18
31	A plant-wide energy model for wastewater treatment plants: application to anaerobic membrane bioreactor technology. Environmental Technology (United Kingdom), 2016, 37, 2298-2315.	1.2	18
32	Workshops of innovation in chemical engineering to train communication skills in science and technology. Education for Chemical Engineers, 2019, 26, 114-121.	2.8	18
33	Mathematical modelling of filtration in submerged anaerobic MBRs (SAnMBRs): Long-term validation. Journal of Membrane Science, 2013, 446, 303-309.	4.1	17
34	A semi-industrial scale AnMBR for municipal wastewater treatment at ambient temperature: performance of the biological process. Water Research, 2022, 215, 118249.	5.3	17
35	Modeling the anaerobic treatment of sulfate-rich urban wastewater: Application to AnMBR technology. Water Research, 2020, 184, 116133.	5.3	16
36	On-line monitoring of photosynthetic activity based on pH data to assess microalgae cultivation. Journal of Environmental Management, 2020, 276, 111343.	3.8	16

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37	Global sensitivity analysis of a filtration model for submerged anaerobic membrane bioreactors (AnMBR). Bioresource Technology, 2014, 158, 365-373.	4.8	13
38	Development and pilot-scale validation of a fuzzy-logic control system for optimization of methane production in fixed-bed reactors. Journal of Process Control, 2018, 68, 96-104.	1.7	13
39	Modelling hydrolysis: Simultaneous versus sequential biodegradation of the hydrolysable fractions. Waste Management, 2020, 101, 150-160.	3.7	13
40	Considering syntrophic acetate oxidation and ionic strength improves the performance of models for food waste anaerobic digestion. Bioresource Technology, 2021, 341, 125802.	4.8	13
41	Assessing and modeling nitrite inhibition in microalgae-bacteria consortia for wastewater treatment by means of photo-respirometric and chlorophyll fluorescence techniques. Science of the Total Environment, 2022, 808, 152128.	3.9	13
42	A fuzzy-logic-based controller for methane production in anaerobic fixed-film reactors. Environmental Technology (United Kingdom), 2017, 38, 42-52.	1.2	12
43	Real-time optimization of the key filtration parameters in an AnMBR: Urban wastewater mono-digestion vs. co-digestion with domestic food waste. Waste Management, 2018, 80, 299-309.	3.7	12
44	Plant-wide modelling in wastewater treatment: showcasing experiences using the Biological Nutrient Removal Model. Water Science and Technology, 2020, 81, 1700-1714.	1.2	12
45	Influence of total solids concentration on membrane permeability in a submerged hollow-fibre anaerobic membrane bioreactor. Water Science and Technology, 2012, 66, 377-384.	1.2	10
46	Integrated membrane bioreactors modelling: A review on new comprehensive modelling framework. Bioresource Technology, 2021, 329, 124828.	4.8	10
47	Widening the applicability of AnMBR for urban wastewater treatment through PDMS membranes for dissolved methane capture: Effect of temperature and hydrodynamics. Journal of Environmental Management, 2021, 287, 112344.	3.8	10
48	Electrical conductivity as a state indicator for the start-up period of anaerobic fixed-bed reactors. Water Science and Technology, 2016, 73, 2294-2300.	1.2	8
49	Filtration process cost in submerged anaerobic membrane bioreactors (AnMBRs) for urban wastewater treatment. Separation Science and Technology, 2016, 51, 517-524.	1.3	8
50	Contextualized project-based learning for training chemical engineers in graphic expression. Education for Chemical Engineers, 2021, 34, 57-67.	2.8	8
51	Kinetic modeling of autotrophic microalgae mainline processes for sewage treatment in phosphorus-replete and -deplete culture conditions. Science of the Total Environment, 2021, 797, 149165.	3.9	8
52	Energy and environmental impact of an anaerobic membrane bioreactor (AnMBR) demonstration plant treating urban wastewater. , 2020, , 289-310.		7
53	Anaerobic membrane bioreactors for resource recovery from municipal wastewater: a comprehensive review of recent advances. Environmental Science: Water Research and Technology, 2021, 7, 1944-1965.	1.2	7
54	Global sensitivity and uncertainty analysis of a microalgae model for wastewater treatment. Science of the Total Environment, 2022, 806, 150504.	3.9	7

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55	Preliminary data set to assess the performance of an outdoor membrane photobioreactor. Data in Brief, 2019, 27, 104599.	0.5	6
56	Position paper â€“ progress towards standards in integrated (aerobic) MBR modelling. Water Science and Technology, 2020, 81, 1-9.	1.2	6
57	Resource recovery from food waste via biological processes. , 2021, , 327-354.		0
58	ENHANCING VIRTUAL LEARNING STRATEGIES IN THE AREA OF CHEMICAL ENGINEERING. , 2021, , .		0
59	Harvesting Energy from Wastewater Using an Innovative Anaerobic Membrane Bioreactor. Proceedings of the Water Environment Federation, 2015, 2015, 1-15.	0.0	0
60	Membranes in wastewater treatment. , 2017, , 129-154.		0
61	IQLABS: REVAMPING THE LABORATORY SUBJECTS OF THE CHEMICAL ENGINEERING DEGREE OF THE UNIVERSITY OF VALENCIA TO FAVOR THE LEVEL OF COMPETENCIES ACQUISITION. , 2020, , .		0
62	CHEMICAL ENGINEERING IN THE INFORMATION AGE: IMPACT OF NEW PEDAGOGICAL AND TECHNOLOGICAL RESOURCES TO TRAIN TRANSFERABLE SKILLS. , 2020, , .		0
63	EVALUATING THE IMPACT OF DIFFERENT PEDAGOGICAL AND TECHNOLOGICAL RESOURCES TO TRAIN TRANSFERABLE SKILLS IN THE AREA OF CHEMICAL ENGINEERING. , 2020, , .		0