

Ming Xie

List of Publications by Year in Descending Order

Source: <https://exaly.com/author-pdf/8488123/ming-xie-publications-by-year.pdf>

Version: 2024-04-24

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

58

papers

3,356

citations

28

h-index

57

g-index

60

ext. papers

3,873

ext. citations

9.9

avg, IF

5.71

L-index

#	Paper	IF	Citations
58	Characterization of scalants and strategies for scaling mitigation in membrane distillation of alkaline concentrated circulating cooling water. <i>Desalination</i> , 2022 , 527, 115534	10.3	2
57	Engineering pressure retarded osmosis membrane bioreactor (PRO-MBR) for simultaneous water and energy recovery from municipal wastewater.. <i>Science of the Total Environment</i> , 2022 , 154048	10.2	0
56	Nitrogen recovery from a palladium leachate via membrane distillation: System performance and ammonium chloride crystallization. <i>Resources, Conservation and Recycling</i> , 2022 , 183, 106368	11.9	1
55	Performance of coagulant-aided biomass filtration to protect ultrafiltration from membrane fouling in biogas slurry concentration. <i>Environmental Technology and Innovation</i> , 2022 , 102659	7	0
54	A novel forward osmosis reactor assisted with microfiltration for deep thickening waste activated sludge: performance and implication. <i>Water Research</i> , 2021 , 195, 116998	12.5	4
53	Effects of surfactant addition to draw solution on the performance of osmotic membrane bioreactor. <i>Journal of Membrane Science</i> , 2021 , 618, 118634	9.6	4
52	Rejection of harsh pH saline solutions using graphene membranes. <i>Carbon</i> , 2021 , 171, 240-247	10.4	8
51	Treatment of a platinum leachate by membrane distillation: Mechanism of combined silica scaling and organic fouling for distinct system performance decline. <i>Chemical Engineering Research and Design</i> , 2021 , 146, 877-885	5.5	3
50	Polyaniline-based adsorbents for aqueous pollutants removal: A review. <i>Chemical Engineering Journal</i> , 2021 , 418, 129425	14.7	23
49	Emerging investigator series: engineering membrane distillation with nanofabrication: design, performance and mechanisms. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 1786-1793	4.2	5
48	Membrane distillation of a silver leaching solution: Role of the coexisting aluminum ions on silica scaling. <i>Journal of Membrane Science</i> , 2020 , 603, 118021	9.6	13
47	Direct contact membrane distillation of refining waste stream from precious metal recovery: Chemistry of silica and chromium (III) in membrane scaling. <i>Journal of Membrane Science</i> , 2020 , 598, 117803	9.6	14
46	Secret underneath: Fouling of membrane support layer in anaerobic osmotic membrane bioreactor (AnOMBR). <i>Journal of Membrane Science</i> , 2020 , 614, 118530	9.6	3
45	Antifouling thin-film composite membranes with multi-defense properties by controllably constructing amphiphilic diblock copolymer brush layer. <i>Journal of Membrane Science</i> , 2020 , 614, 118515	9.6	14
44	Emerging investigator series: onsite recycling of saline/alkaline soil washing water by forward osmosis: techno-economic evaluation and implication. <i>Environmental Science: Water Research and Technology</i> , 2020 , 6, 2881-2890	4.2	0
43	Resource recovery from digested manure centrate: Comparison between conventional and aquaporin thin-film composite forward osmosis membranes. <i>Journal of Membrane Science</i> , 2020 , 593, 117436	9.6	24
42	Antifouling Double-Skinned Forward Osmosis Membranes by Constructing Zwitterionic Brush-Decorated MWCNT Ultrathin Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19462-19471	9.5	21

41	In situ extracting organic-bound calcium: A novel approach to mitigating organic fouling in forward osmosis treating wastewater via gradient diffusion thin-films. <i>Water Research</i> , 2019 , 156, 102-109	12.5	12
40	Understanding the organic micropollutants transport mechanisms in the fertilizer-drawn forward osmosis process. <i>Journal of Environmental Management</i> , 2019 , 248, 109240	7.9	16
39	EDTA-based adsorption layer for mitigating FO membrane fouling via in situ removing calcium binding with organic foulants. <i>Journal of Membrane Science</i> , 2019 , 578, 95-102	9.6	6
38	Salinity build-up in osmotic membrane bioreactors: Causes, impacts, and potential cures. <i>Bioresource Technology</i> , 2018 , 257, 301-310	11	35
37	Seeing is believing: Insights from synchrotron infrared mapping for membrane fouling in osmotic membrane bioreactors. <i>Water Research</i> , 2018 , 137, 355-361	12.5	28
36	Anti-fouling graphene-based membranes for effective water desalination. <i>Nature Communications</i> , 2018 , 9, 683	17.4	135
35	Trace organic contaminant rejection by aquaporin forward osmosis membrane: Transport mechanisms and membrane stability. <i>Water Research</i> , 2018 , 132, 90-98	12.5	56
34	Biomimetic aquaporin membranes for osmotic membrane bioreactors: Membrane performance and contaminant removal. <i>Bioresource Technology</i> , 2018 , 249, 62-68	11	68
33	Synchrotron Fourier transform infrared mapping: A novel approach for membrane fouling characterization. <i>Water Research</i> , 2017 , 111, 375-381	12.5	17
32	Surface pattern by nanoimprint for membrane fouling mitigation: Design, performance and mechanisms. <i>Water Research</i> , 2017 , 124, 238-243	12.5	46
31	Silica scaling in forward osmosis: From solution to membrane interface. <i>Water Research</i> , 2017 , 108, 232-239	12.5	41
30	Osmotic versus conventional membrane bioreactors integrated with reverse osmosis for water reuse: Biological stability, membrane fouling, and contaminant removal. <i>Water Research</i> , 2017 , 109, 122-134	12.5	128
29	Thin-film composite forward osmosis membranes functionalized with graphene oxide-silver nanocomposites for biofouling control. <i>Journal of Membrane Science</i> , 2017 , 525, 146-156	9.6	137
28	Synergistic effect of combined colloidal and organic fouling in membrane distillation: Measurements and mechanisms. <i>Environmental Science: Water Research and Technology</i> , 2017 , 3, 119-127	4.2	31
27	Gypsum scaling in forward osmosis: Role of membrane surface chemistry. <i>Journal of Membrane Science</i> , 2016 , 513, 250-259	9.6	64
26	Biodegradation of cellulose triacetate and polyamide forward osmosis membranes in an activated sludge bioreactor: Observations and implications. <i>Journal of Membrane Science</i> , 2016 , 510, 284-292	9.6	38
25	Membrane-based processes for wastewater nutrient recovery: Technology, challenges, and future direction. <i>Water Research</i> , 2016 , 89, 210-21	12.5	294
24	Spacer-induced forward osmosis membrane integrity loss during gypsum scaling. <i>Desalination</i> , 2016 , 392, 85-90	10.3	22

23	Transport and accumulation of organic matter in forward osmosis-reverse osmosis hybrid system: Mechanism and implications. <i>Separation and Purification Technology</i> , 2016 , 167, 6-16	8.3	12
22	Biofouling Mitigation in Forward Osmosis Using Graphene Oxide Functionalized Thin-Film Composite Membranes. <i>Environmental Science & Technology</i> , 2016 , 50, 5840-8	10.3	141
21	Treatment of shale gas drilling flowback fluids (SGDFs) by forward osmosis: Membrane fouling and mitigation. <i>Desalination</i> , 2015 , 366, 113-120	10.3	99
20	Role of pressure in organic fouling in forward osmosis and reverse osmosis. <i>Journal of Membrane Science</i> , 2015 , 493, 748-754	9.6	136
19	Role of Reverse Divalent Cation Diffusion in Forward Osmosis Biofouling. <i>Environmental Science & Technology</i> , 2015 , 49, 13222-9	10.3	38
18	Osmotic dilution for sustainable greenwall irrigation by liquid fertilizer: Performance and implications. <i>Journal of Membrane Science</i> , 2015 , 494, 32-38	9.6	39
17	Removal of Emerging Trace Organic Chemicals by Forward Osmosis 2015 , 363-394		
16	Water reclamation from shale gas drilling flow-back fluid using a novel forward osmosis-vacuum membrane distillation hybrid system. <i>Water Science and Technology</i> , 2014 , 69, 1036-44	2.2	80
15	Toward Resource Recovery from Wastewater: Extraction of Phosphorus from Digested Sludge Using a Hybrid Forward Osmosis Membrane Distillation Process. <i>Environmental Science and Technology Letters</i> , 2014 , 1, 191-195	11	196
14	Impact of organic and colloidal fouling on trace organic contaminant rejection by forward osmosis: Role of initial permeate flux. <i>Desalination</i> , 2014 , 336, 146-152	10.3	58
13	Relating rejection of trace organic contaminants to membrane properties in forward osmosis: measurements, modelling and implications. <i>Water Research</i> , 2014 , 49, 265-74	12.5	103
12	Effects of feed and draw solution temperature and transmembrane temperature difference on the rejection of trace organic contaminants by forward osmosis. <i>Journal of Membrane Science</i> , 2013 , 438, 57-64	9.6	127
11	A forward osmosis-membrane distillation hybrid process for direct sewer mining: system performance and limitations. <i>Environmental Science & Technology</i> , 2013 , 47, 13486-93	10.3	202
10	Standard Methodology for Evaluating Membrane Performance in Osmotically Driven Membrane Processes. <i>Desalination</i> , 2013 , 312, 31-38	10.3	304
9	Impact of humic acid fouling on membrane performance and transport of pharmaceutically active compounds in forward osmosis. <i>Water Research</i> , 2013 , 47, 4567-75	12.5	91
8	Rejection of pharmaceutically active compounds by forward osmosis: Role of solution pH and membrane orientation. <i>Separation and Purification Technology</i> , 2012 , 93, 107-114	8.3	118
7	Removal Mechanisms of Trace Organic Contaminants in Osmotically Driven Membrane Process. <i>Procedia Engineering</i> , 2012 , 44, 269-272		2
6	Nanofiltration process of glyphosate simulated wastewater. <i>Water Science and Technology</i> , 2012 , 65, 816-22	2.2	8

5	Comparison of the removal of hydrophobic trace organic contaminants by forward osmosis and reverse osmosis. <i>Water Research</i> , 2012 , 46, 2683-92	12.5	234
4	Partial desalination and concentration of glyphosate liquor by nanofiltration. <i>Journal of Hazardous Materials</i> , 2011 , 186, 960-4	12.8	22
3	Removal of glyphosate in neutralization liquor from the glycine-dimethylphosphit process by nanofiltration. <i>Journal of Hazardous Materials</i> , 2010 , 181, 975-80	12.8	26
2	Tweak in Puzzle: Tailoring Membrane Chemistry and Structure toward Targeted Removal of Organic Micropollutants for Water Reuse. <i>Environmental Science and Technology Letters</i> ,	11	4
1	Biodegradable Active Packaging with Controlled Release: Principles, Progress, and Prospects. <i>ACS Food Science & Technology</i> ,		3