

Ming Xie

List of Publications by Citations

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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	Standard Methodology for Evaluating Membrane Performance in Osmotically Driven Membrane Processes. <i>Desalination</i> , 2013 , 312, 31-38	10.3	304
57	Membrane-based processes for wastewater nutrient recovery: Technology, challenges, and future direction. <i>Water Research</i> , 2016 , 89, 210-21	12.5	294
56	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
55	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
54	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
53	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
52	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
51	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
50	Anti-fouling graphene-based membranes for effective water desalination. <i>Nature Communications</i> , 2018 , 9, 683	17.4	135
49	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
48	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
47	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
46	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
45	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
44	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
43	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
42	Biomimetic aquaporin membranes for osmotic membrane bioreactors: Membrane performance and contaminant removal. <i>Bioresource Technology</i> , 2018 , 249, 62-68	11	68

41	Gypsum scaling in forward osmosis: Role of membrane surface chemistry. <i>Journal of Membrane Science</i> , 2016 , 513, 250-259	9.6	64
40	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
39	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
38	Surface pattern by nanoimprint for membrane fouling mitigation: Design, performance and mechanisms. <i>Water Research</i> , 2017 , 124, 238-243	12.5	46
37	Silica scaling in forward osmosis: From solution to membrane interface. <i>Water Research</i> , 2017 , 108, 232-239	10.3	41
36	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
35	Role of Reverse Divalent Cation Diffusion in Forward Osmosis Biofouling. <i>Environmental Science & Technology</i> , 2015 , 49, 13222-9	10.3	38
34	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
33	Salinity build-up in osmotic membrane bioreactors: Causes, impacts, and potential cures. <i>Bioresource Technology</i> , 2018 , 257, 301-310	11	35
32	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	14.2	31
31	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
30	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
29	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
28	Polyaniline-based adsorbents for aqueous pollutants removal: A review. <i>Chemical Engineering Journal</i> , 2021 , 418, 129425	14.7	23
27	Partial desalination and concentration of glyphosate liquor by nanofiltration. <i>Journal of Hazardous Materials</i> , 2011 , 186, 960-4	12.8	22
26	Spacer-induced forward osmosis membrane integrity loss during gypsum scaling. <i>Desalination</i> , 2016 , 392, 85-90	10.3	22
25	Antifouling Double-Skinned Forward Osmosis Membranes by Constructing Zwitterionic Brush-Decorated MWCNT Ultrathin Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19462-19479	9.5	21
24	Synchrotron Fourier transform infrared mapping: A novel approach for membrane fouling characterization. <i>Water Research</i> , 2017 , 111, 375-381	12.5	17

23	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
22	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
21	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
20	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
19	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
18	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
17	Nanofiltration process of glyphosate simulated wastewater. <i>Water Science and Technology</i> , 2012 , 65, 816-22	2.2	8
16	Rejection of harsh pH saline solutions using graphene membranes. <i>Carbon</i> , 2021 , 171, 240-247	10.4	8
15	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
14	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
13	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
12	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
11	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
10	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
9	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
8	Biodegradable Active Packaging with Controlled Release: Principles, Progress, and Prospects. <i>ACS Food Science & Technology</i> ,		3
7	Removal Mechanisms of Trace Organic Contaminants in Osmotically Driven Membrane Process. <i>Procedia Engineering</i> , 2012 , 44, 269-272		2
6	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

5	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
4	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
3	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
2	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
1	Removal of Emerging Trace Organic Chemicals by Forward Osmosis 2015 , 363-394		