

# Chuyang Y Tang

## List of Publications by Year in descending order

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317  
papers

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2091

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#	ARTICLE	IF	CITATIONS
1	Recent developments in forward osmosis: Opportunities and challenges. <i>Journal of Membrane Science</i> , 2012, 396, 1-21.	4.1	1,141
2	Effect of membrane chemistry and coating layer on physiochemical properties of thin film composite polyamide RO and NF membranes. <i>Desalination</i> , 2009, 242, 149-167.	4.0	818
3	Coupled effects of internal concentration polarization and fouling on flux behavior of forward osmosis membranes during humic acid filtration. <i>Journal of Membrane Science</i> , 2010, 354, 123-133.	4.1	688
4	Membrane cleaning in membrane bioreactors: A review. <i>Journal of Membrane Science</i> , 2014, 468, 276-307.	4.1	637
5	Membrane fouling in osmotically driven membrane processes: A review. <i>Journal of Membrane Science</i> , 2016, 499, 201-233.	4.1	625
6	Probing the nano- and micro-scales of reverse osmosis membranes—A comprehensive characterization of physiochemical properties of uncoated and coated membranes by XPS, TEM, ATR-FTIR, and streaming potential measurements. <i>Journal of Membrane Science</i> , 2007, 287, 146-156.	4.1	582
7	Colloidal interactions and fouling of NF and RO membranes: A review. <i>Advances in Colloid and Interface Science</i> , 2011, 164, 126-143.	7.0	559
8	Synthesis and characterization of flat-sheet thin film composite forward osmosis membranes. <i>Journal of Membrane Science</i> , 2011, 372, 292-302.	4.1	508
9	Characterization of novel forward osmosis hollow fiber membranes. <i>Journal of Membrane Science</i> , 2010, 355, 158-167.	4.1	502
10	Effect of membrane chemistry and coating layer on physiochemical properties of thin film composite polyamide RO and NF membranes. <i>Desalination</i> , 2009, 242, 168-182.	4.0	424
11	The upper bound of thin-film composite (TFC) polyamide membranes for desalination. <i>Journal of Membrane Science</i> , 2019, 590, 117297.	4.1	381
12	Potable Water Reuse through Advanced Membrane Technology. <i>Environmental Science &amp; Technology</i> , 2018, 52, 10215-10223.	4.6	363
13	Recent developments and future perspectives of reverse electrodialysis technology: A review. <i>Desalination</i> , 2018, 425, 156-174.	4.0	338
14	Degradation of Polyamide Nanofiltration and Reverse Osmosis Membranes by Hypochlorite. <i>Environmental Science &amp; Technology</i> , 2012, 46, 852-859.	4.6	337
15	Fouling of reverse osmosis and nanofiltration membranes by humic acid—Effects of solution composition and hydrodynamic conditions. <i>Journal of Membrane Science</i> , 2007, 290, 86-94.	4.1	328
16	Use of Reverse Osmosis Membranes to Remove Perfluorooctane Sulfonate (PFOS) from Semiconductor Wastewater. <i>Environmental Science &amp; Technology</i> , 2006, 40, 7343-7349.	4.6	326
17	Membrane-based technologies for lithium recovery from water lithium resources: A review. <i>Journal of Membrane Science</i> , 2019, 591, 117317.	4.1	326
18	Zeolite-polyamide thin film nanocomposite membranes: Towards enhanced performance for forward osmosis. <i>Journal of Membrane Science</i> , 2012, 405-406, 149-157.	4.1	324

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19	Tannic Acid/Fe <sup>3+</sup> Nanoscaffold for Interfacial Polymerization: Toward Enhanced Nanofiltration Performance. <i>Environmental Science &amp; Technology</i> , 2018, 52, 9341-9349.	4.6	310
20	Effect of Flux (Transmembrane Pressure) and Membrane Properties on Fouling and Rejection of Reverse Osmosis and Nanofiltration Membranes Treating Perfluorooctane Sulfonate Containing Wastewater. <i>Environmental Science &amp; Technology</i> , 2007, 41, 2008-2014.	4.6	309
21	Osmotic power production from salinity gradient resource by pressure retarded osmosis: Effects of operating conditions and reverse solute diffusion. <i>Journal of Membrane Science</i> , 2012, 401-402, 262-273.	4.1	308
22	A Critical Review on Thin-Film Nanocomposite Membranes with Interlayered Structure: Mechanisms, Recent Developments, and Environmental Applications. <i>Environmental Science &amp; Technology</i> , 2020, 54, 15563-15583.	4.6	308
23	Effect of draw solution concentration and operating conditions on forward osmosis and pressure retarded osmosis performance in a spiral wound module. <i>Journal of Membrane Science</i> , 2010, 348, 298-309.	4.1	306
24	Thin-film composite hollow fiber membranes for pressure retarded osmosis (PRO) process with high power density. <i>Journal of Membrane Science</i> , 2012, 389, 25-33.	4.1	299
25	The role of physical and chemical parameters on forward osmosis membrane fouling during algae separation. <i>Journal of Membrane Science</i> , 2011, 366, 356-362.	4.1	283
26	Desalination by biomimetic aquaporin membranes: Review of status and prospects. <i>Desalination</i> , 2013, 308, 34-40.	4.0	280
27	Synthesis of robust and high-performance aquaporin-based biomimetic membranes by interfacial polymerization-membrane preparation and RO performance characterization. <i>Journal of Membrane Science</i> , 2012, 423-424, 422-428.	4.1	272
28	Nanofoaming of Polyamide Desalination Membranes To Tune Permeability and Selectivity. <i>Environmental Science and Technology Letters</i> , 2018, 5, 123-130.	3.9	260
29	Characteristics and potential applications of a novel forward osmosis hollow fiber membrane. <i>Desalination</i> , 2010, 261, 365-372.	4.0	256
30	A low-cost mullite-titania composite ceramic hollow fiber microfiltration membrane for highly efficient separation of oil-in-water emulsion. <i>Water Research</i> , 2016, 90, 277-285.	5.3	241
31	The potential to enhance membrane module design with 3D printing technology. <i>Journal of Membrane Science</i> , 2016, 499, 480-490.	4.1	238
32	Removal of organic micropollutants using advanced membrane-based water and wastewater treatment: A review. <i>Journal of Membrane Science</i> , 2020, 598, 117672.	4.1	238
33	Two-Dimensional Ti <sub>3</sub> C <sub>2</sub> T <sub>x</sub> MXene Membranes as Nanofluidic Osmotic Power Generators. <i>ACS Nano</i> , 2019, 13, 8917-8925.	7.3	235
34	Synthesis and Characterization of Novel Forward Osmosis Membranes based on Layer-by-Layer Assembly. <i>Environmental Science &amp; Technology</i> , 2011, 45, 5201-5208.	4.6	225
35	Protein fouling of nanofiltration, reverse osmosis, and ultrafiltration membranes—The role of hydrodynamic conditions, solution chemistry, and membrane properties. <i>Journal of Membrane Science</i> , 2011, 376, 275-282.	4.1	224
36	Nanocomposite substrates for controlling internal concentration polarization in forward osmosis membranes. <i>Journal of Membrane Science</i> , 2013, 441, 54-62.	4.1	222

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37	Performance of a submerged anaerobic membrane bioreactor with forward osmosis membrane for low-strength wastewater treatment. <i>Water Research</i> , 2014, 50, 114-123.	5.3	220
38	Hollow Fiber Membrane Decorated with Ag/MWNTs: Toward Effective Water Disinfection and Biofouling Control. <i>ACS Nano</i> , 2011, 5, 10033-10040.	7.3	217
39	Osmotic membrane bioreactor (OMBR) technology for wastewater treatment and reclamation: Advances, challenges, and prospects for the future. <i>Journal of Membrane Science</i> , 2016, 504, 113-132.	4.1	217
40	Unraveling flux behavior of superhydrophilic loose nanofiltration membranes during textile wastewater treatment. <i>Journal of Membrane Science</i> , 2015, 493, 690-702.	4.1	203
41	Effect of solution chemistry on the adsorption of perfluorooctane sulfonate onto mineral surfaces. <i>Water Research</i> , 2010, 44, 2654-2662.	5.3	194
42	Engineering antifouling reverse osmosis membranes: A review. <i>Desalination</i> , 2021, 499, 114857.	4.0	192
43	Hydrophilic Silver Nanoparticles Induce Selective Nanochannels in Thin Film Nanocomposite Polyamide Membranes. <i>Environmental Science &amp; Technology</i> , 2019, 53, 5301-5308.	4.6	190
44	Recent development of novel membranes for desalination. <i>Desalination</i> , 2018, 434, 37-59.	4.0	183
45	Membrane biofouling and scaling in forward osmosis membrane bioreactor. <i>Journal of Membrane Science</i> , 2012, 403-404, 8-14.	4.1	182
46	<i>In Situ</i> Reduction of Silver by Polydopamine: A Novel Antimicrobial Modification of a Thin-Film Composite Polyamide Membrane. <i>Environmental Science &amp; Technology</i> , 2016, 50, 9543-9550.	4.6	182
47	Relating reverse and forward solute diffusion to membrane fouling in osmotically driven membrane processes. <i>Water Research</i> , 2012, 46, 2478-2486.	5.3	179
48	Effect of feed spacer induced membrane deformation on the performance of pressure retarded osmosis (PRO): Implications for PRO process operation. <i>Journal of Membrane Science</i> , 2013, 445, 170-182.	4.1	179
49	Robust superhydrophobic-superoleophilic polytetrafluoroethylene nanofibrous membrane for oil/water separation. <i>Journal of Membrane Science</i> , 2017, 540, 354-361.	4.1	178
50	Synthesis of high flux forward osmosis membranes by chemically crosslinked layer-by-layer polyelectrolytes. <i>Journal of Membrane Science</i> , 2011, 381, 74-80.	4.1	175
51	Direct Microscopic Observation of Forward Osmosis Membrane Fouling. <i>Environmental Science &amp; Technology</i> , 2010, 44, 7102-7109.	4.6	174
52	Modeling salt accumulation in osmotic membrane bioreactors: Implications for FO membrane selection and system operation. <i>Journal of Membrane Science</i> , 2011, 366, 314-324.	4.1	174
53	Characterization of Humic Acid Fouled Reverse Osmosis and Nanofiltration Membranes by Transmission Electron Microscopy and Streaming Potential Measurements. <i>Environmental Science &amp; Technology</i> , 2007, 41, 942-949.	4.6	173
54	Membrane fouling in an anaerobic membrane bioreactor: Differences in relative abundance of bacterial species in the membrane foulant layer and in suspension. <i>Journal of Membrane Science</i> , 2010, 364, 331-338.	4.1	170

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55	A critical review on porous substrates of TFC polyamide membranes: Mechanisms, membrane performances, and future perspectives. <i>Journal of Membrane Science</i> , 2022, 641, 119871.	4.1	167
56	Influence of monomer concentrations on the performance of polyamide-based thin film composite forward osmosis membranes. <i>Journal of Membrane Science</i> , 2011, 381, 110-117.	4.1	166
57	Effects of Chlorine Exposure Conditions on Physiochemical Properties and Performance of a Polyamide Membrane—Mechanisms and Implications. <i>Environmental Science &amp; Technology</i> , 2012, 46, 13184-13192.	4.6	164
58	A thin-film nanocomposite nanofiltration membrane prepared on a support with in situ embedded zeolite nanoparticles. <i>Separation and Purification Technology</i> , 2016, 166, 230-239.	3.9	162
59	Synthesis and characterization of novel antibacterial silver nanocomposite nanofiltration and forward osmosis membranes based on layer-by-layer assembly. <i>Water Research</i> , 2013, 47, 3081-3092.	5.3	161
60	Rejection of pharmaceuticals by forward osmosis membranes. <i>Journal of Hazardous Materials</i> , 2012, 227-228, 55-61.	6.5	159
61	Fabrication of carbon nanotubes incorporated double-skinned thin film nanocomposite membranes for enhanced separation performance and antifouling capability in forward osmosis process. <i>Desalination</i> , 2015, 369, 1-9.	4.0	157
62	Organic fouling in pressure retarded osmosis: Experiments, mechanisms and implications. <i>Journal of Membrane Science</i> , 2013, 428, 181-189.	4.1	155
63	A novel hybrid process of reverse electrodialysis and reverse osmosis for low energy seawater desalination and brine management. <i>Applied Energy</i> , 2013, 104, 592-602.	5.1	154
64	Stable Superhydrophobic Ceramic-Based Carbon Nanotube Composite Desalination Membranes. <i>Nano Letters</i> , 2018, 18, 5514-5521.	4.5	153
65	Removal of boron and arsenic by forward osmosis membrane: Influence of membrane orientation and organic fouling. <i>Journal of Membrane Science</i> , 2012, 389, 182-187.	4.1	152
66	Mining Nutrients (N, K, P) from Urban Source-Separated Urine by Forward Osmosis Dewatering. <i>Environmental Science &amp; Technology</i> , 2014, 48, 3386-3394.	4.6	152
67	Solar-assisted fast cleanup of heavy oil spills using a photothermal sponge. <i>Journal of Materials Chemistry A</i> , 2018, 6, 9192-9199.	5.2	151
68	Advanced desalination of dye/NaCl mixtures by a loose nanofiltration membrane for digital ink-jet printing. <i>Separation and Purification Technology</i> , 2018, 197, 27-35.	3.9	144
69	Computational fluid dynamics simulations of flow and concentration polarization in forward osmosis membrane systems. <i>Journal of Membrane Science</i> , 2011, 379, 488-495.	4.1	143
70	Confined nanobubbles shape the surface roughness structures of thin film composite polyamide desalination membranes. <i>Journal of Membrane Science</i> , 2019, 582, 342-349.	4.1	143
71	Biomimetic aquaporin membranes coming of age. <i>Desalination</i> , 2015, 368, 89-105.	4.0	141
72	Nature gives the best solution for desalination: Aquaporin-based hollow fiber composite membrane with superior performance. <i>Journal of Membrane Science</i> , 2015, 494, 68-77.	4.1	141

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73	Study of integration of forward osmosis and biological process: Membrane performance under elevated salt environment. <i>Desalination</i> , 2011, 283, 123-130.	4.0	139
74	Tuning roughness features of thin film composite polyamide membranes for simultaneously enhanced permeability, selectivity and anti-fouling performance. <i>Journal of Colloid and Interface Science</i> , 2019, 540, 382-388.	5.0	139
75	The role of foulantâ€“foulant electrostatic interaction on limiting flux for RO and NF membranes during humic acid foulingâ€”Theoretical basis, experimental evidence, and AFM interaction force measurement. <i>Journal of Membrane Science</i> , 2009, 326, 526-532.	4.1	138
76	Effect of substrate structure on the performance of thin-film composite forward osmosis hollow fiber membranes. <i>Journal of Membrane Science</i> , 2011, 382, 116-123.	4.1	138
77	Gypsum scaling in pressure retarded osmosis: Experiments, mechanisms and implications. <i>Water Research</i> , 2014, 48, 387-395.	5.3	138
78	A facile preparation of novel positively charged MOF/chitosan nanofiltration membranes. <i>Journal of Membrane Science</i> , 2017, 525, 269-276.	4.1	138
79	Mechanistic Insights into the Role of Polydopamine Interlayer toward Improved Separation Performance of Polyamide Nanofiltration Membranes. <i>Environmental Science &amp; Technology</i> , 2020, 54, 11611-11621.	4.6	137
80	Intrinsic Nanoscale Structure of Thin Film Composite Polyamide Membranes: Connectivity, Defects, and Structureâ€“Property Correlation. <i>Environmental Science &amp; Technology</i> , 2020, 54, 3559-3569.	4.6	135
81	Opportunities to reach economic sustainability in forward osmosisâ€“reverse osmosis hybrids for seawater desalination. <i>Desalination</i> , 2015, 363, 26-36.	4.0	132
82	Boric Acid Permeation in Forward Osmosis Membrane Processes: Modeling, Experiments, and Implications. <i>Environmental Science &amp; Technology</i> , 2011, 45, 2323-2330.	4.6	131
83	Preparation of high performance nanofiltration (NF) membranes incorporated with aquaporin Z. <i>Journal of Membrane Science</i> , 2014, 450, 181-188.	4.1	131
84	Double-skinned forward osmosis membranes based on layer-by-layer assemblyâ€”FO performance and fouling behavior. <i>Journal of Membrane Science</i> , 2012, 405-406, 20-29.	4.1	130
85	Acute Responses of Microorganisms from Membrane Bioreactors in the Presence of NaOCl: Protective Mechanisms of Extracellular Polymeric Substances. <i>Environmental Science &amp; Technology</i> , 2017, 51, 3233-3241.	4.6	128
86	Fouling propensity of forward osmosis: investigation of the slower flux decline phenomenon. <i>Water Science and Technology</i> , 2010, 61, 927-936.	1.2	127
87	Fouling of Nanofiltration, Reverse Osmosis, and Ultrafiltration Membranes by Protein Mixtures: The Role of Inter-Foulant-Species Interaction. <i>Environmental Science &amp; Technology</i> , 2011, 45, 6373-6379.	4.6	126
88	In situ observation of the growth of biofouling layer in osmotic membrane bioreactors by multiple fluorescence labeling and confocal laser scanning microscopy. <i>Water Research</i> , 2015, 75, 188-200.	5.3	126
89	Membrane Independent Limiting Flux for RO and NF Membranes Fouled by Humic Acid. <i>Environmental Science &amp; Technology</i> , 2007, 41, 4767-4773.	4.6	123
90	Dissecting the Role of Substrate on the Morphology and Separation Properties of Thin Film Composite Polyamide Membranes: Seeing Is Believing. <i>Environmental Science &amp; Technology</i> , 2020, 54, 6978-6986.	4.6	123

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91	Direct microscopic observation of forward osmosis membrane fouling by microalgae: Critical flux and the role of operational conditions. <i>Journal of Membrane Science</i> , 2013, 436, 174-185.	4.1	122
92	Monolithic Porous Magn <sup>2+</sup> -li-phase TiO <sub>2</sub> for Electro-oxidation Treatment of Industrial Wastewater. <i>Electrochimica Acta</i> , 2016, 214, 326-335.	2.6	122
93	Organic fouling of thin-film composite polyamide and cellulose triacetate forward osmosis membranes by oppositely charged macromolecules. <i>Water Research</i> , 2013, 47, 1867-1874.	5.3	121
94	Factors affecting flux performance of forward osmosis systems. <i>Journal of Membrane Science</i> , 2012, 394-395, 151-168.	4.1	118
95	Graphene oxide membranes: controlling their transport pathways. <i>Journal of Materials Chemistry A</i> , 2020, 8, 15319-15340.	5.2	118
96	Does Hydrophilic Polydopamine Coating Enhance Membrane Rejection of Hydrophobic Endocrine-Disrupting Compounds?. <i>Environmental Science and Technology Letters</i> , 2016, 3, 332-338.	3.9	117
97	Development of an anaerobic osmotic membrane bioreactor for low-strength wastewater treatment at mesophilic condition. <i>Journal of Membrane Science</i> , 2015, 490, 197-208.	4.1	116
98	Preparation of supported lipid membranes for aquaporin Z incorporation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012, 94, 333-340.	2.5	113
99	High-Capacity Amidoxime-Functionalized $\beta$ -Cyclodextrin/Graphene Aerogel for Selective Uranium Capture. <i>Environmental Science &amp; Technology</i> , 2021, 55, 9181-9188.	4.6	112
100	Hydrophilic Selective Nanochannels Created by Metal Organic Frameworks in Nanofiltration Membranes Enhance Rejection of Hydrophobic Endocrine-Disrupting Compounds. <i>Environmental Science &amp; Technology</i> , 2019, 53, 13776-13783.	4.6	111
101	A One-Step Rapid Assembly of Thin Film Coating Using Green Coordination Complexes for Enhanced Removal of Trace Organic Contaminants by Membranes. <i>Environmental Science &amp; Technology</i> , 2017, 51, 12638-12643.	4.6	110
102	Polydopamine coating on a thin film composite forward osmosis membrane for enhanced mass transport and antifouling performance. <i>Journal of Membrane Science</i> , 2018, 551, 234-242.	4.1	110
103	Interfacial Polymerization with Electrosprayed Microdroplets: Toward Controllable and Ultrathin Polyamide Membranes. <i>Environmental Science and Technology Letters</i> , 2018, 5, 117-122.	3.9	105
104	Validation of assisted forward osmosis (AFO) process: Impact of hydraulic pressure. <i>Journal of Membrane Science</i> , 2013, 447, 1-11.	4.1	104
105	Membrane module design and dynamic shear-induced techniques to enhance liquid separation by hollow fiber modules: a review. <i>Desalination and Water Treatment</i> , 2013, 51, 3604-3627.	1.0	104
106	The role of hydrodynamic conditions and solution chemistry on protein fouling during ultrafiltration. <i>Desalination</i> , 2009, 249, 1079-1087.	4.0	102
107	Free-standing hierarchical $\beta$ -MnO <sub>2</sub> @CuO membrane for catalytic filtration degradation of organic pollutants. <i>Chemosphere</i> , 2018, 200, 237-247.	4.2	101
108	Surface modification of thin film composite RO membrane for enhanced anti-biofouling performance. <i>Journal of Membrane Science</i> , 2013, 444, 192-200.	4.1	100

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109	In situ silica growth for superhydrophilic-underwater superoleophobic Silica/PVA nanofibrous membrane for gravity-driven oil-in-water emulsion separation. <i>Journal of Membrane Science</i> , 2020, 612, 118476.	4.1	97
110	Preparation of nanocavity-contained thin film composite nanofiltration membranes with enhanced permeability and divalent to monovalent ion selectivity. <i>Desalination</i> , 2018, 445, 115-122.	4.0	96
111	Dually Charged MOF-Based Thin-Film Nanocomposite Nanofiltration Membrane for Enhanced Removal of Charged Pharmaceutically Active Compounds. <i>Environmental Science &amp; Technology</i> , 2020, 54, 7619-7628.	4.6	95
112	Regulation, formation, exposure, and treatment of disinfection by-products (DBPs) in swimming pool waters: A critical review. <i>Environment International</i> , 2018, 121, 1039-1057.	4.8	94
113	Novel Approach To Characterizing the Growth of a Fouling Layer during Membrane Filtration via Optical Coherence Tomography. <i>Environmental Science &amp; Technology</i> , 2014, 48, 14273-14281.	4.6	93
114	A comprehensive physico-chemical characterization of superhydrophilic loose nanofiltration membranes. <i>Journal of Membrane Science</i> , 2016, 501, 1-14.	4.1	93
115	Peptide-induced super-assembly of biocatalytic metal-organic frameworks for programmed enzyme cascades. <i>Chemical Science</i> , 2019, 10, 7852-7858.	3.7	91
116	Tailoring Polyamide Rejection Layer with Aqueous Carbonate Chemistry for Enhanced Membrane Separation: Mechanistic Insights, Chemistry-Structure-Property Relationship, and Environmental Implications. <i>Environmental Science &amp; Technology</i> , 2019, 53, 9764-9770.	4.6	91
117	High performance flat sheet forward osmosis membrane with an NF-like selective layer on a woven fabric embedded substrate. <i>Desalination</i> , 2012, 287, 266-270.	4.0	90
118	Non-Polyamide Based Nanofiltration Membranes Using Green Metal-Organic Coordination Complexes: Implications for the Removal of Trace Organic Contaminants. <i>Environmental Science &amp; Technology</i> , 2019, 53, 2688-2694.	4.6	90
119	Low-Tortuosity Water Microchannels Boosting Energy Utilization for High Water Flux Solar Distillation. <i>Environmental Science &amp; Technology</i> , 2020, 54, 5150-5158.	4.6	89
120	Rejection of heavy metals in acidic wastewater by a novel thin-film inorganic forward osmosis membrane. <i>Chemical Engineering Journal</i> , 2017, 320, 532-538.	6.6	87
121	Metal-organic framework enables ultrasensitive polyamide membrane for desalination and water reuse. <i>Science Advances</i> , 2022, 8, eabm4149.	4.7	87
122	Surface modification of thin film composite polyamide membrane using atomic layer deposition method. <i>Journal of Membrane Science</i> , 2014, 450, 174-180.	4.1	86
123	Antibiofouling Polyvinylidene Fluoride Membrane Modified by Quaternary Ammonium Compound: Direct Contact-Killing versus Induced Indirect Contact-Killing. <i>Environmental Science &amp; Technology</i> , 2016, 50, 5086-5093.	4.6	86
124	A novel thin-film nano-templated composite membrane with in situ silver nanoparticles loading: Separation performance enhancement and implications. <i>Journal of Membrane Science</i> , 2017, 544, 351-358.	4.1	86
125	Novel high-flux positively charged composite membrane incorporating titanium-based MOFs for heavy metal removal. <i>Chemical Engineering Journal</i> , 2020, 398, 125706.	6.6	86
126	Modeling double-skinned FO membranes. <i>Desalination</i> , 2011, 283, 178-186.	4.0	85



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127	Development of a novel anaerobic membrane bioreactor simultaneously integrating microfiltration and forward osmosis membranes for low-strength wastewater treatment. <i>Journal of Membrane Science</i> , 2017, 527, 1-7.	4.1	84
128	Combined organic&inorganic fouling of forward osmosis hollow fiber membranes. <i>Water Research</i> , 2012, 46, 6329-6338.	5.3	83
129	Atmospheric pressure atomic layer deposition for tight ceramic nanofiltration membranes: Synthesis and application in water purification. <i>Journal of Membrane Science</i> , 2017, 528, 163-170.	4.1	82
130	Removal of haloacetic acids from swimming pool water by reverse osmosis and nanofiltration. <i>Water Research</i> , 2017, 116, 116-125.	5.3	82
131	Thin-film nanocomposite membranes containing tannic acid-Fe <sup>3+</sup> modified MoS <sub>2</sub> nanosheets with enhanced nanofiltration performance. <i>Journal of Membrane Science</i> , 2020, 616, 118605.	4.1	82
132	Metal&organic framework-based porous matrix membranes for improving mass transfer in forward osmosis membranes. <i>Journal of Membrane Science</i> , 2015, 492, 392-399.	4.1	80
133	Omniphobic Nanofibrous Membrane with Pine-Needle-Like Hierarchical Nanostructures: Toward Enhanced Performance for Membrane Distillation. <i>ACS Applied Materials &amp; Interfaces</i> , 2019, 11, 47963-47971.	4.0	80
134	Analyzing the Evolution of Membrane Fouling via a Novel Method Based on 3D Optical Coherence Tomography Imaging. <i>Environmental Science &amp; Technology</i> , 2016, 50, 6930-6939.	4.6	79
135	Network modeling for studying the effect of support structure on internal concentration polarization during forward osmosis: Model development and theoretical analysis with FEM. <i>Journal of Membrane Science</i> , 2011, 379, 307-321.	4.1	77
136	A highly selective surface coating for enhanced membrane rejection of endocrine disrupting compounds: Mechanistic insights and implications. <i>Water Research</i> , 2017, 121, 197-203.	5.3	77
137	Nanofiltration for drinking water treatment: a review. <i>Frontiers of Chemical Science and Engineering</i> , 2022, 16, 681-698.	2.3	77
138	Trace organic contaminant rejection by aquaporin forward osmosis membrane: Transport mechanisms and membrane stability. <i>Water Research</i> , 2018, 132, 90-98.	5.3	76
139	Robust ultrathin nanoporous MOF membrane with intra-crystalline defects for fast water transport. <i>Nature Communications</i> , 2022, 13, 266.	5.8	76
140	Perfluorooctane sulfonate removal by nanofiltration membrane&the effect and interaction of magnesium ion / humic acid. <i>Journal of Membrane Science</i> , 2016, 503, 31-41.	4.1	75
141	Cross-linked Graphene Oxide Framework Membranes with Robust Nano-Channels for Enhanced Sieving Ability. <i>Environmental Science &amp; Technology</i> , 2020, 54, 15442-15453.	4.6	75
142	Omniphobic PVDF nanofibrous membrane for superior anti-wetting performance in direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2020, 608, 118226.	4.1	75
143	Membrane Technology for Water: Microfiltration, Ultrafiltration, Nanofiltration, and Reverse Osmosis. , 2011, , 301-335.		74
144	Effects of hypochlorous acid exposure on the rejection of salt, polyethylene glycols, boron and arsenic(V) by nanofiltration and reverse osmosis membranes. <i>Water Research</i> , 2012, 46, 5217-5223.	5.3	74

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145	In situ surface modification of thin film composite forward osmosis membranes with sulfonated poly(arylene ether sulfone) for anti-fouling in emulsified oil/water separation. <i>Journal of Membrane Science</i> , 2017, 527, 26-34.	4.1	74
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