## Kai Yu Wang

## List of Publications by Citations

Source: https://exaly.com/author-pdf/4477093/kai-yu-wang-publications-by-citations.pdf

Version: 2024-04-10

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.

16,656 263 76 114 h-index g-index citations papers 8.2 18,720 269 7.51 avg, IF L-index ext. citations ext. papers

#	Paper	IF	Citations
263	Forward osmosis processes: Yesterday, today and tomorrow. <i>Desalination</i> , <b>2012</b> , 287, 78-81	10.3	47°
262	Treatment of highly concentrated wastewater containing multiple synthetic dyes by a combined process of coagulation/flocculation and nanofiltration. <i>Journal of Membrane Science</i> , <b>2014</b> , 469, 306-315	5 <sup>9.6</sup>	314
261	Nanometric Graphene Oxide Framework Membranes with Enhanced Heavy Metal Removal via Nanofiltration. <i>Environmental Science &amp; Environmental Science &amp; E</i>	10.3	309
260	Well-constructed cellulose acetate membranes for forward osmosis: Minimized internal concentration polarization with an ultra-thin selective layer. <i>Journal of Membrane Science</i> , <b>2010</b> , 360, 522-535	9.6	298
259	Evolution of polymeric hollow fibers as sustainable technologies: Past, present, and future. <i>Progress in Polymer Science</i> , <b>2012</b> , 37, 1401-1424	29.6	292
258	Poly-/metal-benzimidazole nano-composite membranes for hydrogen purification. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 4171	35.4	260
257	Double-Skinned Forward Osmosis Membranes for Reducing Internal Concentration Polarization within the Porous Sublayer. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 4824-4831	3.9	241
256	Highly Water-Soluble Magnetic Nanoparticles as Novel Draw Solutes in Forward Osmosis for Water Reuse. <i>Industrial &amp; Draw Solutes in Forward Osmosis for Water Reuse</i> . <i>Industrial &amp; Draw Solutes in Forward Osmosis for Water Reuse</i> . <i>Industrial &amp; Draw Solutes in Forward Osmosis for Water Reuse</i> . <i>Industrial &amp; Draw Solutes in Forward Osmosis for Water Reuse</i> .	3.9	236
255	Hydrophobic PVDF hollow fiber membranes with narrow pore size distribution and ultra-thin skin for the fresh water production through membrane distillation. <i>Chemical Engineering Science</i> , <b>2008</b> , 63, 2587-2594	4.4	222
254	Sustainable water recovery from oily wastewater via forward osmosis-membrane distillation (FO-MD). <i>Water Research</i> , <b>2014</b> , 52, 112-21	12.5	209
253	Polybenzimidazole (PBI) nanofiltration hollow fiber membranes applied in forward osmosis process. <i>Journal of Membrane Science</i> , <b>2007</b> , 300, 6-12	9.6	204
252	Developing thin-film-composite forward osmosis membranes on the PES/SPSf substrate through interfacial polymerization. <i>AICHE Journal</i> , <b>2012</b> , 58, 770-781	3.6	200
251	Dual-layer hollow fibers with enhanced flux as novel forward osmosis membranes for water production. <i>Environmental Science &amp; Environmental &amp; </i>	10.3	191
250	Chelating polymer modified P84 nanofiltration (NF) hollow fiber membranes for high efficient heavy metal removal. <i>Water Research</i> , <b>2014</b> , 63, 252-61	12.5	190
249	Thin-Film Composite Membranes and Formation Mechanism of Thin-Film Layers on Hydrophilic Cellulose Acetate Propionate Substrates for Forward Osmosis Processes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2012</b> , 51, 10039-10050	3.9	186
248	High-Performance Thermally Self-Cross-Linked Polymer of Intrinsic Microporosity (PIM-1) Membranes for Energy Development. <i>Macromolecules</i> , <b>2012</b> , 45, 1427-1437	5.5	186
247	Gas transport properties of 6FDA-durene/1,4-phenylenediamine (pPDA) copolyimides. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2000</b> , 38, 2703-2713	2.6	182

246	Integrated forward osmosishembrane distillation (FOMD) hybrid system for the concentration of protein solutions. <i>Chemical Engineering Science</i> , <b>2011</b> , 66, 2421-2430	4.4	180
245	High performance membranes based on ionic liquid polymers for CO2 separation from the flue gas. <i>Green Chemistry</i> , <b>2012</b> , 14, 1052	10	170
244	The effects of flow angle and shear rate within the spinneret on the separation performance of poly(ethersulfone) (PES) ultrafiltration hollow fiber membranes. <i>Journal of Membrane Science</i> , <b>2004</b> , 240, 67-79	9.6	169
243	Enhanced forward osmosis from chemically modified polybenzimidazole (PBI) nanofiltration hollow fiber membranes with a thin wall. <i>Chemical Engineering Science</i> , <b>2009</b> , 64, 1577-1584	4.4	155
242	Study of draw solutes using 2-methylimidazole-based compounds in forward osmosis. <i>Journal of Membrane Science</i> , <b>2010</b> , 364, 242-252	9.6	151
241	Mixed Matrix PVDF Hollow Fiber Membranes with Nanoscale Pores for Desalination through Direct Contact Membrane Distillation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2009</b> , 48, 4474-4483	3.9	150
240	Fabrication of polybenzimidazole (PBI) nanofiltration hollow fiber membranes for removal of chromate. <i>Journal of Membrane Science</i> , <b>2006</b> , 281, 307-315	9.6	147
239	Advanced Porous Materials in Mixed Matrix Membranes. <i>Advanced Materials</i> , <b>2018</b> , 30, e1802401	24	141
238	The characterization of flat composite nanofiltration membranes and their applications in the separation of Cephalexin. <i>Journal of Membrane Science</i> , <b>2005</b> , 247, 37-50	9.6	135
237	Novel Ag+-zeolite/polymer mixed matrix membranes with a high CO2/CH4 selectivity. <i>AICHE Journal</i> , <b>2007</b> , 53, 610-616	3.6	131
236	Applications of carbon quantum dots (CQDs) in membrane technologies: A review. <i>Water Research</i> , <b>2018</b> , 147, 43-49	12.5	131
235	UiO-66 incorporated thin-film nanocomposite membranes for efficient selenium and arsenic removal. <i>Journal of Membrane Science</i> , <b>2017</b> , 541, 262-270	9.6	130
234	Effect of Mixed Solvents on Characteristics of Poly(N-isopropylacrylamide) Gels. <i>Langmuir</i> , <b>2002</b> , 18, 2538-2542	4	130
233	Newly developed nanofiltration (NF) composite membranes by interfacial polymerization for Safranin O and Aniline blue removal. <i>Journal of Membrane Science</i> , <b>2013</b> , 430, 96-105	9.6	129
232	Development of simultaneous membrane distillation (Trystallization (SMDC) technology for treatment of saturated brine. <i>Chemical Engineering Science</i> , <b>2013</b> , 98, 160-172	4.4	126
231	The ionic liquid [EMIM]OAc as a solvent to fabricate stable polybenzimidazole membranes for organic solvent nanofiltration. <i>Green Chemistry</i> , <b>2014</b> , 16, 1383-1392	10	123
230	Effect of air-gap distance on the morphology and thermal properties of polyethersulfone hollow fibers. <i>Journal of Applied Polymer Science</i> , <b>1997</b> , 66, 1067-1077	2.9	122
229	Symmetric and Asymmetric Zeolitic Imidazolate Frameworks (ZIFs)/Polybenzimidazole (PBI) Nanocomposite Membranes for Hydrogen Purification at High Temperatures. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 1358-1367	21.8	120

228	Diamine modification of P84 polyimide membranes for pervaporation dehydration of isopropanol. <i>AICHE Journal</i> , <b>2006</b> , 52, 3462-3472	3.6	119
227	A review of polymeric composite membranes for gas separation and energy production. <i>Progress in Polymer Science</i> , <b>2019</b> , 97, 101141	29.6	118
226	Room-temperature synthesis of ZIF-90 nanocrystals and the derived nano-composite membranes for hydrogen separation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 6081	13	117
225	Design of omniphobic interfaces for membrane distillation - A review. Water Research, 2019, 162, 64-77	12.5	116
224	Precise Molecular Sieving Architectures with Janus Pathways for Both Polar and Nonpolar Molecules. <i>Advanced Materials</i> , <b>2018</b> , 30, 1705933	24	116
223	Chemically modified polybenzimidazole nanofiltration membrane for the separation of electrolytes and cephalexin. <i>Chemical Engineering Science</i> , <b>2006</b> , 61, 5807-5817	4.4	115
222	Combination of forward osmosis (FO) process with coagulation/flocculation (CF) for potential treatment of textile wastewater. <i>Water Research</i> , <b>2016</b> , 91, 361-70	12.5	114
221	Grafting thermally labile molecules on cross-linkable polyimide to design membrane materials for natural gas purification and CO2 capture. <i>Energy and Environmental Science</i> , <b>2011</b> , 4, 201-208	35.4	114
220	Novel nanofiltration membranes consisting of a sulfonated pentablock copolymer rejection layer for heavy metal removal. <i>Environmental Science &amp; Environmental Science &amp; Envir</i>	10.3	110
219	An aquaporin-based vesicle-embedded polymeric membrane for low energy water filtration. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 7592	13	110
218	Emerging thin-film nanocomposite (TFN) membranes for reverse osmosis: A review. <i>Water Research</i> , <b>2020</b> , 173, 115557	12.5	109
217	Enhancement of flux and solvent stability of Matrimid thin-film composite membranes for organic solvent nanofiltration. <i>AICHE Journal</i> , <b>2014</b> , 60, 3623-3633	3.6	104
216	Thickness and Air Gap Dependence of Macrovoid Evolution in Phase-Inversion Asymmetric Hollow Fiber Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2006</b> , 45, 7618-7626	3.9	104
215	Effect of polyvinylpyrrolidone molecular weights on morphology, oil/water separation, mechanical and thermal properties of polyetherimide/polyvinylpyrrolidone hollow fiber membranes. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 74, 2220-2233	2.9	102
214	Zwitterionic polymers grafted poly(ether sulfone) hollow fiber membranes and their antifouling behaviors for osmotic power generation. <i>Journal of Membrane Science</i> , <b>2016</b> , 497, 142-152	9.6	100
213	Novel polyamide-imide/cellulose acetate dual-layer hollow fiber membranes for nanofiltration. <i>Journal of Membrane Science</i> , <b>2010</b> , 363, 232-242	9.6	99
212	UV-Rearranged PIM-1 Polymeric Membranes for Advanced Hydrogen Purification and Production. <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 1456-1466	21.8	98
211	The effects of spinning conditions on asymmetric 6FDA/6FDAM polyimide hollow fibers for air separation. <i>Journal of Applied Polymer Science</i> , <b>1997</b> , 65, 1555-1569	2.9	97

## (2015-2013)

210	membranes for water treatment. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , <b>2013</b> , 436, 207-214	5.1	93
209	Molecular design of the cellulose ester-based forward osmosis membranes for desalination. <i>Chemical Engineering Science</i> , <b>2011</b> , 66, 2008-2018	4.4	89
208	Fundamental Characteristics of Sorption, Swelling, and Permeation of P84 Co-polyimide Membranes for Pervaporation Dehydration of Alcohols. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2005</b> , 44, 8938-8943	3.9	88
207	Cross-linked mixed matrix membranes (MMMs) consisting of amine-functionalized multi-walled carbon nanotubes and P84 polyimide for organic solvent nanofiltration (OSN) with enhanced flux. <i>Journal of Membrane Science</i> , <b>2018</b> , 548, 319-331	9.6	88
206	Energy recovery by pressure retarded osmosis (PRO) in SWROPRO integrated processes. <i>Applied Energy</i> , <b>2016</b> , 162, 687-698	10.7	87
205	High performance composite hollow fiber membranes for CO2/H2 and CO2/N2 separation. <i>International Journal of Hydrogen Energy</i> , <b>2014</b> , 39, 5043-5053	6.7	87
204	POSS-containing delamination-free dual-layer hollow fiber membranes for forward osmosis and osmotic power generation. <i>Journal of Membrane Science</i> , <b>2013</b> , 443, 144-155	9.6	87
203	Water reclamation from emulsified oily wastewater via effective forward osmosis hollow fiber membranes under the PRO mode. <i>Water Research</i> , <b>2015</b> , 81, 54-63	12.5	87
202	Effect of inner-layer thermal conductivity on flux enhancement of dual-layer hollow fiber membranes in direct contact membrane distillation. <i>Journal of Membrane Science</i> , <b>2010</b> , 364, 278-289	9.6	87
201	The limitations of using Flory-Huggins equation for the states of solutions during asymmetric hollow-fiber formation. <i>Journal of Membrane Science</i> , <b>1997</b> , 126, 19-34	9.6	86
200	Surface Modification of Polyimide Membranes by Diamines for H2 and CO2 Separation. <i>Macromolecular Rapid Communications</i> , <b>2006</b> , 27, 998-1003	4.8	86
199	Low-Pressure Nanofiltration Hollow Fiber Membranes for Effective Fractionation of Dyes and Inorganic Salts in Textile Wastewater. <i>Environmental Science &amp; Environmental Scien</i>	10.3	84
198	Omniphobic Hollow-Fiber Membranes for Vacuum Membrane Distillation. <i>Environmental Science &amp; Environmental &amp; Environme</i>	10.3	84
197	Removal of organic micro-pollutants (phenol, aniline and nitrobenzene) via forward osmosis (FO) process: Evaluation of FO as an alternative method to reverse osmosis (RO). <i>Water Research</i> , <b>2016</b> , 91, 104-14	12.5	84
196	Thickness Dependence of Macrovoid Evolution in Wet Phase-Inversion Asymmetric Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2004</b> , 43, 1553-1556	3.9	84
195	Facile Synthesis of Dual-Layer Organic Solvent Nanofiltration (OSN) Hollow Fiber Membranes. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2015</b> , 3, 3019-3023	8.3	82
194	The effect of shear rates on gas separation performance of 6FDA-durene polyimide hollow fibers. Journal of Membrane Science, <b>2000</b> , 167, 55-66	9.6	82
193	Photo-oxidative PIM-1 based mixed matrix membranes with superior gas separation performance. Journal of Materials Chemistry A, 2015, 3, 17273-17281	13	81

192	Highly permeable chemically modified PIM-1/Matrimid membranes for green hydrogen purification. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 13914	13	79
191	Matrimid /MgO mixed matrix membranes for pervaporation. <i>AICHE Journal</i> , <b>2007</b> , 53, 1745-1757	3.6	79
190	Molecularly Tuned Free Volume of Vapor Cross-Linked 6FDA-Durene/ZIF-71 MMMs for H /CO Separation at 150 LC. <i>Advanced Materials</i> , <b>2017</b> , 29, 1603833	24	78
189	Novel PVDF membranes comprising n-butylamine functionalized graphene oxide for direct contact membrane distillation. <i>Journal of Membrane Science</i> , <b>2017</b> , 539, 34-42	9.6	78
188	High-performance composite hollow fiber membrane for flue gas and air separations. <i>Journal of Membrane Science</i> , <b>2017</b> , 541, 367-377	9.6	78
187	From ultrafiltration to nanofiltration: Hydrazine cross-linked polyacrylonitrile hollow fiber membranes for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , <b>2017</b> , 542, 289-299	9.6	74
186	Chiral assembly of gold nanorods with collective plasmonic circular dichroism response. <i>Soft Matter</i> , <b>2011</b> , 7, 8370	3.6	74
185	Pharmaceutical concentration using organic solvent forward osmosis for solvent recovery. <i>Nature Communications</i> , <b>2018</b> , 9, 1426	17.4	71
184	Particle-Size Effects on Gas Transport Properties of 6FDA-Durene/ZIF-71 Mixed Matrix Membranes. <i>Industrial &amp; Discourse Chemistry Research</i> , <b>2016</b> , 55, 9507-9517	3.9	70
183	The study of elongation and shear rates in spinning process and its effect on gas separation performance of Poly(ether sulfone) (PES) hollow fiber membranes. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 1053-1062	4.4	70
182	Formation of Cellulose Acetate Membranes via Phase Inversion Using Ionic Liquid, [BMIM]SCN, As the Solvent. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2010</b> , 49, 8761-8769	3.9	68
181	Polyamide-imide nanofiltration hollow fiber membranes with elongation-induced nano-pore evolution. <i>AICHE Journal</i> , <b>2010</b> , 56, 1481-1494	3.6	68
180	Self-standing and flexible covalent organic framework (COF) membranes for molecular separation. <i>Science Advances</i> , <b>2020</b> , 6,	14.3	66
179	Freeze desalination of seawater using LNG cold energy. Water Research, 2016, 102, 282-293	12.5	65
178	Preparation and characterization of pore-suspending biomimetic membranes embedded with Aquaporin Z on carboxylated polyethylene glycol polymer cushion. <i>Soft Matter</i> , <b>2011</b> , 7, 7274	3.6	64
177	Evolution of nano-particle distribution during the fabrication of mixed matrix TiO2-polyimide hollow fiber membranes. <i>Chemical Engineering Science</i> , <b>2006</b> , 61, 6228-6233	4.4	64
176	Fundamental understanding of the effect of air-gap distance on the fabrication of hollow fiber membranes. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 72, 379-395	2.9	64
175	High-performance UiO-66/polyimide mixed matrix membranes for ethanol, isopropanol and n-butanol dehydration via pervaporation. <i>Journal of Membrane Science</i> , <b>2017</b> , 531, 16-26	9.6	63

174	Surface energy of thermotropic liquid crystalline polyesters and polyesteramide. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1998</b> , 36, 2327-2337	2.6	63
173	Graphene oxide (GO) laminar membranes for concentrating pharmaceuticals and food additives in organic solvents. <i>Carbon</i> , <b>2018</b> , 130, 503-514	10.4	62
172	Na+ functionalized carbon quantum dot incorporated thin-film nanocomposite membranes for selenium and arsenic removal. <i>Journal of Membrane Science</i> , <b>2018</b> , 564, 483-491	9.6	62
171	A novel crosslinking technique towards the fabrication of high-flux polybenzimidazole (PBI) membranes for organic solvent nanofiltration (OSN). <i>Separation and Purification Technology</i> , <b>2019</b> , 209, 182-192	8.3	62
170	Design of zero liquid discharge desalination (ZLDD) systems consisting of freeze desalination, membrane distillation, and crystallization powered by green energies. <i>Desalination</i> , <b>2019</b> , 458, 66-75	10.3	61
169	Polybenzimidazole nanofiltration hollow fiber for cephalexin separation. <i>AICHE Journal</i> , <b>2006</b> , 52, 1363-	-13377	61
168	Robust and high performance pressure retarded osmosis hollow fiber membranes for osmotic power generation. <i>AICHE Journal</i> , <b>2014</b> , 60, 1107-1119	3.6	60
167	Blends of a Polymer of Intrinsic Microporosity and Partially Sulfonated Polyphenylenesulfone for Gas Separation. <i>ChemSusChem</i> , <b>2016</b> , 9, 1953-62	8.3	60
166	Thin film nanocomposite hollow fiber membranes comprising Na-functionalized carbon quantum dots for brackish water desalination. <i>Water Research</i> , <b>2019</b> , 154, 54-61	12.5	58
165	A slowfast phase separation (SFPS) process to fabricate dual-layer hollow fiber substrates for thin-film composite (TFC) organic solvent nanofiltration (OSN) membranes. <i>Chemical Engineering Science</i> , <b>2015</b> , 129, 232-242	4.4	58
164	PIM-1 as an organic filler to enhance the gas separation performance of Ultem polyetherimide. Journal of Membrane Science, <b>2014</b> , 453, 614-623	9.6	58
163	Physical aging and plasticization of thick and thin films of the thermally rearranged ortho-functional polyimide 6FDAHAB. <i>Journal of Membrane Science</i> , <b>2014</b> , 458, 27-35	9.6	58
162	PAMAM dendrimer-induced cross-linking modification of polyimide membranes. <i>Langmuir</i> , <b>2004</b> , 20, 2966-9	4	58
161	Thermal Imidization of the Precursor of a Liquid Crystalline Polyimide. <i>Macromolecular Materials and Engineering</i> , <b>2002</b> , 287, 931-937	3.9	58
160	Investigation of shear stress effect within a spinneret on flux, separation and thermomechanical properties of hollow fiber ultrafiltration membranes. <i>Journal of Membrane Science</i> , <b>2000</b> , 175, 197-213	9.6	58
159	Flexible Hybrid Membranes of NiCo2O4-Doped Carbon [email[protected]2 CoreBheath Nanostructures for High-Performance Supercapacitors. <i>Journal of Physical Chemistry C</i> , <b>2015</b> , 119, 1344	2 <sup>2</sup> 734!	5 <b>6</b> 7
158	Effect of Shear Stress within the Spinneret on Hollow Fiber Membrane Morphology and Separation Performance. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>1998</b> , 37, 3930-3938	3.9	57
157	Solvent resistant hollow fiber membranes comprising P84 polyimide and amine-functionalized carbon nanotubes with potential applications in pharmaceutical, food, and petrochemical industries. <i>Chemical Engineering Journal</i> , <b>2018</b> , 345, 174-185	14.7	56

156	Design of high efficiency PVDF-PEG hollow fibers for air filtration of ultrafine particles. <i>Journal of Membrane Science</i> , <b>2017</b> , 535, 342-349	9.6	55
155	Fabrication of loose inner-selective polyethersulfone (PES) hollow fibers by one-step spinning process for nanofiltration (NF) of textile dyes. <i>Journal of Membrane Science</i> , <b>2017</b> , 541, 413-424	9.6	55
154	A novel primer to prevent nanoparticle agglomeration in mixed matrix membranes. <i>AICHE Journal</i> , <b>2007</b> , 53, 2470-2475	3.6	55
153	Fluorographite modified PVDF membranes for seawater desalination via direct contact membrane distillation. <i>Desalination</i> , <b>2017</b> , 413, 119-126	10.3	54
152	Design and synthesis of a fluoro-silane amine monomer for novel thin film composite membranes to dehydrate ethanol via pervaporation. <i>Journal of Materials Chemistry A</i> , <b>2013</b> , 1, 9814	13	54
151	Investigation of amphoteric polybenzimidazole (PBI) nanofiltration hollow fiber membrane for both cation and anions removal. <i>Journal of Membrane Science</i> , <b>2008</b> , 310, 557-566	9.6	54
150	Membrane fouling and anti-fouling strategies using RO retentate from a municipal water recycling plant as the feed for osmotic power generation. <i>Water Research</i> , <b>2016</b> , 88, 144-155	12.5	53
149	Ferric and cobaltous hydroacid complexes for forward osmosis (FO) processes. <i>Water Research</i> , <b>2014</b> , 58, 230-8	12.5	53
148	Physical aging and carbon dioxide plasticization of thin polyimide films in mixed gas permeation. Journal of Membrane Science, <b>2014</b> , 450, 457-468	9.6	52
147	Silica Nanohybrid Membranes with High CO2 Affinity for Green Hydrogen Purification. <i>Advanced Energy Materials</i> , <b>2011</b> , 1, 634-642	21.8	52
146	The observation of elongation dependent macrovoid evolution in single- and dual-layer asymmetric hollow fiber membranes. <i>Chemical Engineering Science</i> , <b>2004</b> , 59, 4657-4660	4.4	52
145	Thermally treated ammonia functionalized graphene oxide/polyimide membranes for pervaporation dehydration of isopropanol. <i>Journal of Membrane Science</i> , <b>2017</b> , 528, 231-242	9.6	51
144	Zwitterions coated hollow fiber membranes with enhanced antifouling properties for osmotic power generation from municipal wastewater. <i>Water Research</i> , <b>2016</b> , 104, 389-396	12.5	51
143	Hollow Fiber Membrane Dehumidification Device for Air Conditioning System. <i>Membranes</i> , <b>2015</b> , 5, 722	2-388	51
142	Synthesis and properties of fluoro-polyetherimides. <i>Polymer Engineering and Science</i> , <b>2000</b> , 40, 1318-13	<b>229</b> 3	51
141	Novel Hollow Fiber Air Filters for the Removal of Ultrafine Particles in PM with Repetitive Usage Capability. <i>Environmental Science &amp; Echnology</i> , <b>2017</b> , 51, 10041-10049	10.3	50
140	Highly permeable aquaporin-embedded biomimetic membranes featuring a magnetic-aided approach. <i>RSC Advances</i> , <b>2013</b> , 3, 9178	3.7	49
139	Phase Inversion Directly Induced Tight Ultrafiltration (UF) Hollow Fiber Membranes for Effective Removal of Textile Dyes. <i>Environmental Science &amp; Environmental Science &amp; Env</i>	10.3	49

138	Flexible thermally treated 3D PIM-CD molecular sieve membranes exceeding the upper bound line for propylene/propane separation. <i>Journal of Materials Chemistry A</i> , <b>2017</b> , 5, 4583-4595	13	48	
137	Pervaporation dehydration of acetone using P84 co-polyimide flat sheet membranes modified by vapor phase crosslinking. <i>Journal of Membrane Science</i> , <b>2014</b> , 458, 76-85	9.6	48	
136	Dual-layer PBI/P84 hollow fibers for pervaporation dehydration of acetone. <i>AICHE Journal</i> , <b>2012</b> , 58, 1133-1145	3.6	48	
135	Negatively charged hyperbranched polyglycerol grafted membranes for osmotic power generation from municipal wastewater. <i>Water Research</i> , <b>2016</b> , 89, 50-8	12.5	47	
134	Miscible blends of carboxylated polymers of intrinsic microporosity (cPIM-1) and Matrimid. <i>Polymer</i> , <b>2015</b> , 59, 290-297	3.9	46	
133	Robust thin film composite PDMS/PAN hollow fiber membranes for water vapor removal from humid air and gases. <i>Separation and Purification Technology</i> , <b>2018</b> , 202, 345-356	8.3	46	
132	Carbon Quantum Dots Grafted Antifouling Membranes for Osmotic Power Generation via Pressure-Retarded Osmosis Process. <i>Environmental Science &amp; Environmental &amp;</i>	10.3	46	
131	Robust polybenzimidazole (PBI) hollow fiber membranes for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , <b>2019</b> , 572, 580-587	9.6	46	
130	Thin-film composite hollow fiber membrane with inorganic salt additives for high mechanical strength and high power density for pressure-retarded osmosis. <i>Journal of Membrane Science</i> , <b>2018</b> , 555, 388-397	9.6	45	
129	Forward osmosis: an emerging technology for sustainable supply of clean water. <i>Clean Technologies and Environmental Policy</i> , <b>2012</b> , 14, 507-511	4.3	45	
128	Ultrathin polymeric interpenetration network with separation performance approaching ceramic membranes for biofuel. <i>AICHE Journal</i> , <b>2009</b> , 55, 75-86	3.6	45	
127	Facile fabrication of sulfonated polyphenylenesulfone (sPPSU) membranes with high separation performance for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , <b>2018</b> , 549, 550-558	9.6	44	
126	Thin-film composite membranes with modified polyvinylidene fluoride substrate for ethanol dehydration via pervaporation. <i>Chemical Engineering Science</i> , <b>2014</b> , 118, 173-183	4.4	43	
125	Micro-morphology and formation of layer-by-layer membranes and their performance in osmotically driven processes. <i>Chemical Engineering Science</i> , <b>2013</b> , 101, 13-26	4.4	43	
124	Hybrid pressure retarded osmosisthembrane distillation (PROMD) process for osmotic power and clean water generation. <i>Environmental Science: Water Research and Technology</i> , <b>2015</b> , 1, 507-515	4.2	43	
123	Facile fabrication of solvent resistant thin film composite membranes by interfacial crosslinking reaction between polyethylenimine and dibromo-p-xylene on polybenzimidazole substrates. <i>Journal of Membrane Science</i> , <b>2018</b> , 560, 115-124	9.6	43	
122	Forward osmosis for oily wastewater reclamation: Multi-charged oxalic acid complexes as draw solutes. <i>Water Research</i> , <b>2017</b> , 122, 580-590	12.5	42	
121	The forward osmosis-pressure retarded osmosis (FO-PRO) hybrid system: A new process to mitigate membrane fouling for sustainable osmotic power generation. <i>Journal of Membrane Science</i> , <b>2018</b> , 559, 63-74	9.6	42	

120	Investigations of inorganic and organic fouling behaviors, antifouling and cleaning strategies for pressure retarded osmosis (PRO) membrane using seawater desalination brine and wastewater.  Water Research, 2016, 103, 264-275	12.5	42
119	Effects of free volume in thin-film composite membranes on osmotic power generation. <i>AICHE Journal</i> , <b>2013</b> , 59, 4749-4761	3.6	42
118	Advanced FO membranes from newly synthesized CAP polymer for wastewater reclamation through an integrated FO-MD hybrid system. <i>AICHE Journal</i> , <b>2013</b> , 59, 1245-1254	3.6	42
117	Mixed matrix membranes with nano-sized functional UiO-66-type MOFs embedded in 6FDA-HAB/DABA polyimide for dehydration of C1-C3 alcohols via pervaporation. <i>Journal of Membrane Science</i> , <b>2018</b> , 549, 217-226	9.6	41
116	Development of high performance carboxylated PIM-1/P84 blend membranes for pervaporation dehydration of isopropanol and CO2/CH4 separation. <i>Journal of Membrane Science</i> , <b>2016</b> , 518, 110-119	9.6	40
115	Outer-selective thin film composite (TFC) hollow fiber membranes for osmotic power generation. Journal of Membrane Science, <b>2016</b> , 505, 157-166	9.6	39
114	Formation of defect-free polyetherimide/PIM-1 hollow fiber membranes for gas separation. <i>AICHE Journal</i> , <b>2014</b> , 60, 3848-3858	3.6	39
113	Tuning water content in polymer dopes to boost the performance of outer-selective thin-film composite (TFC) hollow fiber membranes for osmotic power generation. <i>Journal of Membrane Science</i> , <b>2017</b> , 524, 97-107	9.6	39
112	Design and fabrication of inner-selective thin-film composite (TFC) hollow fiber modules for pressure retarded osmosis (PRO). <i>Separation and Purification Technology</i> , <b>2017</b> , 172, 32-42	8.3	39
111	Fabrication and use of hollow fiber thin film composite membranes for ethanol dehydration. Journal of Membrane Science, <b>2014</b> , 450, 124-137	9.6	39
110	Liquidlike Poly(ethylene glycol) Supported in the OrganicIhorganic Matrix for CO2Removal. <i>Macromolecules</i> , <b>2011</b> , 44, 5268-5280	5.5	39
109	The development of high-performance 6FDA-NDA/DABA/POSS/Ultem dual-layer hollow fibers for ethanol dehydration via pervaporation. <i>Journal of Membrane Science</i> , <b>2013</b> , 447, 163-176	9.6	38
108	Effective As(III) Removal by A Multi-Charged Hydroacid Complex Draw Solute Facilitated Forward Osmosis-Membrane Distillation (FO-MD) Processes. <i>Environmental Science &amp; Distillation</i> , 2016, 2363-70	10.3	37
107	Cleaning strategies and membrane flux recovery on anti-fouling membranes for pressure retarded osmosis. <i>Journal of Membrane Science</i> , <b>2017</b> , 522, 116-123	9.6	36
106	Gas transport properties of 6FDA-durene/1,3-phenylenediamine (mPDA) copolyimides. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 81, 3552-3564	2.9	36
105	110th Anniversary: Selection of Cross-Linkers and Cross-Linking Procedures for the Fabrication of Solvent-Resistant Nanofiltration Membranes: A Review. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 10678-10691	3.9	35
104	Molecularly tunable thin-film nanocomposite membranes with enhanced molecular sieving for organic solvent forward osmosis. <i>Nature Communications</i> , <b>2020</b> , 11, 1198	17.4	34
103	Advanced Anti-Fouling Membranes for Osmotic Power Generation from Wastewater via Pressure Retarded Osmosis (PRO). <i>Environmental Science &amp; Technology</i> , <b>2018</b> , 52, 6686-6694	10.3	34

102	Effects of Different Ionic Liquids as Green Solvents on the Formation and Ultrafiltration Performance of CA Hollow Fiber Membranes. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2016</b> , 55, 7505-7513	3.9	33	
101	Facile Preparation of Antifouling Hollow Fiber Membranes for Sustainable Osmotic Power Generation. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 1154-1160	8.3	33	
100	Separation of vegetable oil compounds and solvent recovery using commercial organic solvent nanofiltration membranes. <i>Journal of Membrane Science</i> , <b>2019</b> , 588, 117202	9.6	32	
99	Evolution of micro-deformation in inner-selective thin film composite hollow fiber membranes and its implications for osmotic power generation. <i>Journal of Membrane Science</i> , <b>2016</b> , 516, 104-112	9.6	32	
98	PVDF hollow fibers with novel sandwich structure and superior wetting resistance for vacuum membrane distillation. <i>Desalination</i> , <b>2017</b> , 417, 94-101	10.3	31	
97	Design of nanofiltration (NF) hollow fiber membranes made from functionalized bore fluids containing polyethyleneimine (PEI) for heavy metal removal. <i>Journal of Membrane Science</i> , <b>2020</b> , 603, 118022	9.6	31	
96	New polyethersulfone (PESU) hollow fiber membranes for CO 2 capture. <i>Journal of Membrane Science</i> , <b>2018</b> , 552, 305-314	9.6	31	
95	Molecular Design of Nanofiltration Membranes for the Recovery of Phosphorus from Sewage Sludge. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2016</b> , 4, 5570-5577	8.3	31	
94	In-situ synthesis and cross-linking of polyamide thin film composite (TFC) membranes for bioethanol applications. <i>Journal of Membrane Science</i> , <b>2014</b> , 458, 47-57	9.6	30	
93	Membrane development and energy analysis of freeze desalination-vacuum membrane distillation hybrid systems powered by LNG regasification and solar energy. <i>Desalination</i> , <b>2019</b> , 449, 16-25	10.3	30	
92	Activated carbon-filled cellulose acetate hollow-fiber membrane for cell immobilization and phenol degradation. <i>Journal of Applied Polymer Science</i> , <b>2000</b> , 76, 695-707	2.9	29	
91	Can Composite Janus Membranes with an Ultrathin Dense Hydrophilic Layer Resist Wetting in Membrane Distillation?. <i>Environmental Science &amp; Environmental Science &amp; Environment</i>	10.3	29	
90	Polyarylether membranes for dehydration of ethanol and methanol via pervaporation. <i>Separation and Purification Technology</i> , <b>2018</b> , 193, 165-174	8.3	29	
89	Structural Tuning of Polymers of Intrinsic Microporosity via the Copolymerization with Macrocyclic 4-tert-butylcalix[4]arene for Enhanced Gas Separation Performance. <i>Advanced Sustainable Systems</i> , <b>2018</b> , 2, 1800044	5.9	28	
88	Novel Polybenzimidazole (PBI) Nanofiltration Membranes for the Separation of Sulfate and Chromate from High Alkalinity Brine To Facilitate the Chlor-Alkali Process. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2007</b> , 46, 1572-1577	3.9	28	
87	Rheology, morphology and properties of LCP/Nylon 66 composite fibers. <i>Polymer Composites</i> , <b>2000</b> , 21, 114-123	3	28	
86	Green Design of Poly(m-Phenylene Isophthalamide)-Based Thin-Film Composite Membranes for Organic Solvent Nanofiltration and Concentrating Lecithin in Hexane. <i>ACS Sustainable Chemistry and Engineering</i> , <b>2018</b> , 6, 10696-10705	8.3	27	
85	Molecular interactions between polybenzimidazole and [EMIM]OAc, and derived ultrafiltration membranes for protein separation. <i>Green Chemistry</i> , <b>2012</b> , 14, 1405	10	27	

84	Infiltrating molecular gatekeepers with coexisting molecular solubility and 3D-intrinsic porosity into a microporous polymer scaffold for gas separation. <i>Journal of Materials Chemistry A</i> , <b>2020</b> , 8, 6196	-6209	27
83	Pre-treatment of wastewater retentate to mitigate fouling on the pressure retarded osmosis (PRO) process. <i>Separation and Purification Technology</i> , <b>2019</b> , 215, 390-397	8.3	26
82	Sulfonated hyperbranched polyglycerol grafted membranes with antifouling properties for sustainable osmotic power generation using municipal wastewater. <i>Journal of Membrane Science</i> , <b>2018</b> , 563, 521-530	9.6	26
81	Developing ultra-high gas permeance PVDF hollow fibers for air filtration applications. <i>Separation and Purification Technology</i> , <b>2018</b> , 205, 184-195	8.3	26
80	Nanoparticles Embedded in Amphiphilic Membranes for Carbon Dioxide Separation and Dehumidification. <i>ChemSusChem</i> , <b>2017</b> , 10, 4046-4055	8.3	25
79	The development of chemically modified P84 Co-polyimide membranes as supported liquid membrane matrix for Cu(II) removal with prolonged stability. <i>Chemical Engineering Science</i> , <b>2007</b> , 62, 1721-1729	4.4	25
78	Aging phenomenon of 6FDA-polyimide/polyacrylonitrile composite hollow fibers. <i>Journal of Applied Polymer Science</i> , <b>1996</b> , 59, 77-82	2.9	25
77	Mechanically Strong and Flexible Hydrolyzed Polymers of Intrinsic Microporosity (PIM-1) Membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2017</b> , 55, 344-354	2.6	23
76	Nanoclays-Incorporated Thin-Film Nanocomposite Membranes for Reverse Osmosis Desalination. <i>Advanced Materials Interfaces</i> , <b>2020</b> , 7, 1902108	4.6	23
75	Development of Novel Multichannel Rectangular Membranes with Grooved Outer Selective Surface for Membrane Distillation. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2011</b> , 50, 14046-14054	3.9	23
74	Determination of pore sizes and surface porosity and the effect of shear stress within a spinneret on asymmetric hollow fiber membranes. <i>Journal of Membrane Science</i> , <b>2001</b> , 188, 29-37	9.6	23
73	Exploring the spinning and operations of multibore hollow fiber membranes for vacuum membrane distillation. <i>AICHE Journal</i> , <b>2014</b> , 60, 1078-1090	3.6	22
72	Pushing the limits of high performance dual-layer hollow fiber fabricated via I2PS process in dehydration of ethanol. <i>AICHE Journal</i> , <b>2013</b> , 59, 3006-3018	3.6	22
71	A pilot study on pressure retarded osmosis operation and effective cleaning strategies. <i>Desalination</i> , <b>2017</b> , 420, 273-282	10.3	22
70	The physical aging phenomenon of 6FDA-durene polyimide hollow fiber membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2000</b> , 38, 765-775	2.6	22
69	Thermal decomposition behavior of main-chain thermotropic liquid crystalline polymers, Vectra A-950, B-950, and Xydar SRT-900. <i>Journal of Applied Polymer Science</i> , <b>1999</b> , 73, 2195-2207	2.9	22
68	In-situ cross-linked PVDF membranes with enhanced mechanical durability for vacuum membrane distillation. <i>AICHE Journal</i> , <b>2016</b> , 62, 4013-4022	3.6	21
67	Experimental and computational studies of membrane extraction of Cu(II). AICHE Journal, 2006, 52, 32	6 <del>6</del> . <b>8</b> 27	721

## (2016-2021)

66	Thin-film nanocomposite membranes incorporated with defective ZIF-8 nanoparticles for brackish water and seawater desalination. <i>Journal of Membrane Science</i> , <b>2021</b> , 625, 119158	9.6	21
65	Ultrahigh Flux Composite Hollow Fiber Membrane via Highly Crosslinked PDMS for Recovery of Hydrocarbons: Propane and Propene. <i>Macromolecular Rapid Communications</i> , <b>2018</b> , 39, 1700535	4.8	20
64	One-step cross-linking and tannic acid modification of polyacrylonitrile hollow fibers for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , <b>2020</b> , 610, 118294	9.6	19
63	Gypsum (CaSO4[2H2O) Scaling on Polybenzimidazole and Cellulose Acetate Hollow Fiber Membranes under Forward Osmosis. <i>Membranes</i> , <b>2013</b> , 3, 354-74	3.8	19
62	Thermal analysis of vectra B950 liquid crystal polymer. <i>Polymer Engineering and Science</i> , <b>1999</b> , 39, 953-9	<b>62</b> 3	19
61	Teflon AF2400/Ultem composite hollow fiber membranes for alcohol dehydration by high-temperature vapor permeation. <i>AICHE Journal</i> , <b>2016</b> , 62, 1747-1757	3.6	19
60	Schiff base reaction assisted one-step self-assembly method for efficient gravity-driven oil-water emulsion separation. <i>Separation and Purification Technology</i> , <b>2019</b> , 213, 437-446	8.3	19
59	Mitigation of inorganic fouling on pressure retarded osmosis (PRO) membranes by coagulation pretreatment of the wastewater concentrate feed. <i>Journal of Membrane Science</i> , <b>2019</b> , 572, 658-667	9.6	19
58	Rheologically controlled design of nature-inspired superhydrophobic and self-cleaning membranes for clean water production. <i>Npj Clean Water</i> , <b>2020</b> , 3,	11.2	18
57	Effect of polymer compositions on the fabrication of poly(ortho-ester) microspheres for controlled release of protein. <i>Journal of Applied Polymer Science</i> , <b>2001</b> , 80, 1630-1642	2.9	18
56	Dual-skinned polyamide/poly(vinylidene fluoride)/cellulose acetate membranes with embedded woven. <i>Journal of Membrane Science</i> , <b>2016</b> , 520, 840-849	9.6	18
55	Mass transport of various membrane configurations in pressure retarded osmosis (PRO). <i>Journal of Membrane Science</i> , <b>2017</b> , 537, 160-176	9.6	17
54	Green Layer-by-Layer Method for the Preparation of Polyacrylonitrile-Supported Zinc Benzene-1,4-dicarboxylic Acid Membranes. <i>ChemSusChem</i> , <b>2018</b> , 11, 2612-2619	8.3	17
53	Thickness dependent thermal rearrangement of an ortho-functional polyimide. <i>Journal of Membrane Science</i> , <b>2014</b> , 450, 308-312	9.6	17
52	Thermally evolved and boron bridged graphene oxide (GO) frameworks constructed on microporous hollow fiber substrates for water and organic matters separation. <i>Carbon</i> , <b>2017</b> , 123, 193-	2 <b>6</b> 9·4	17
51	Synthesis and structure of wholly aromatic liquiddrystalline polyesters containing meta- and ortholinkages. <i>Journal of Polymer Science Part A</i> , <b>2001</b> , 39, 1242-1248	2.5	17
50	Selection of crosslinkers and control of microstructure of vapor-phase crosslinked composite membranes for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , <b>2020</b> , 616, 118582	9.6	17
49	Experiments and Modeling of Boric Acid Permeation through Double-Skinned Forward Osmosis Membranes. <i>Environmental Science &amp; Environmental Science &amp; E</i>	10.3	16

48	Cooling Crystallization of Sodium Chloride via Hollow Fiber Devices to Convert Waste Concentrated Brines to Useful Products. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2017</b> , 56, 10183-10192	3.9	16
47	Two-dimensional (2D) particle coating on membranes for pervaporation dehydration of isopropanol: A new approach to seal defects and enhance separation performance. <i>Journal of Membrane Science</i> , <b>2017</b> , 544, 378-387	9.6	16
46	Engineering design of outer-selective tribore hollow fiber membranes for forward osmosis and oil-water separation. <i>AICHE Journal</i> , <b>2015</b> , 61, 4491-4501	3.6	15
45	A Critical Review of Polybenzimidazoles. <i>Polymer Reviews</i> , <b>1997</b> , 37, 277-301	14	15
44	Nanofiltration-Inspired Janus Membranes with Simultaneous Wetting and Fouling Resistance for Membrane Distillation. <i>Environmental Science &amp; Environmental Science &amp; Environme</i>	10.3	15
43	Hydrophobic Perfluoropolyether-Coated Thin-Film Composite Membranes for Organic Solvent Nanofiltration. <i>ACS Applied Polymer Materials</i> , <b>2019</b> , 1, 472-481	4.3	15
42	Dehydration of industrial isopropanol (IPA) waste by pervaporation and vapor permeation membranes. <i>Journal of Applied Polymer Science</i> , <b>2018</b> , 135, 45086	2.9	13
41	Exploration of ionic modification in dual-layer hollow fiber membranes for long-term high-performance protein separation. <i>AICHE Journal</i> , <b>2009</b> , 55, 321-330	3.6	13
40	A fine match between the stereoselective ligands and membrane pore size for enhanced chiral separation. <i>AICHE Journal</i> , <b>2009</b> , 55, 2284-2291	3.6	13
39	UiO-66-NH2 incorporated dual-layer hollow fibers made by immiscibility induced phase separation (I2PS) process for ethanol dehydration via pervaporation. <i>Journal of Membrane Science</i> , <b>2020</b> , 595, 1175	5 <i>7</i> 96	13
38	Effect of catalysts on thin-film polymerization of thermotropic liquid crystalline copolyester. <i>Journal of Polymer Science Part A</i> , <b>2000</b> , 38, 1257-1269	2.5	11
37	Effects of monomer structures on the evolution of liquid rystal texture and crystallization during thin-film polymerization. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1999</b> , 37, 3084-3096	2.6	11
36	Solvent Recovery via Organic Solvent Pressure Assisted Osmosis. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2019</b> , 58, 4970-4978	3.9	10
35	Membrane Pervaporation <b>2013</b> , 259-299		10
34	Bulk Viscosity and Its Unstable Behavior upon Storage in Polyimide Precursor Solutions. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 4266-4272	3.9	10
33	Configuration effects of ortho, meta, and para linkages on liquid crystallinity during thin-film polymerization of poly(ester-amide)s. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>2000</b> , 38, 222	1 <del>-2</del> 231	10
32	Rheological behavior and prediction for blending conditions of a thermotropic liquid crystalline polyester with nylon. <i>Polymers for Advanced Technologies</i> , <b>2000</b> , 11, 153-158	3.2	10
31	Optimization of TFC-PES hollow fiber membranes for reverse osmosis (RO) and osmotically assisted reverse osmosis (OARO) applications. <i>Journal of Membrane Science</i> , <b>2021</b> , 625, 119156	9.6	10

30	Osmotic power production from seawater brine by hollow fiber membrane modules: Net power output and optimum operating conditions. <i>AICHE Journal</i> , <b>2016</b> , 62, 1216-1225	3.6	10
29	Investigation of novel molecularly tunable thin-film nanocomposite nanofiltration hollow fiber membranes for boron removal. <i>Journal of Membrane Science</i> , <b>2021</b> , 620, 118887	9.6	10
28	The Role of Fluorinated Aryl Ether Moiety in Polyimide-co-etherimide on Gas Transport Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , <b>2020</b> , 59, 5315-5323	3.9	9
27	Sol <b>©</b> el Synthesis and Characterization of SrFeCo0.5O3.25-Powder. <i>Industrial &amp; amp; Engineering Chemistry Research</i> , <b>2002</b> , 41, 5432-5435	3.9	8
26	Studies on the phase transition and thermal stability of Xydar and Zenite series liquid crystalline polymers. <i>Polymer Engineering and Science</i> , <b>2000</b> , 40, 841-856	2.3	8
25	Halo formation in asymmetric polyetherimide and polybenzimidazole blend hollow fiber membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , <b>1999</b> , 37, 1575-1585	2.6	8
24	Novel membrane processes for the enantiomeric resolution of tryptophan by selective permeation enhancements. <i>AICHE Journal</i> , <b>2011</b> , 57, 1154-1162	3.6	7
23	Anisotropic dielectric properties of polyimides consisting of various molar ratios of meta to para diamine with trifluoromethyl group. <i>Polymer Engineering and Science</i> , <b>2001</b> , 41, 1783-1793	2.3	7
22	3D-macrocycles impregnated polybenzimidazole hollow fiber membranes with excellent organic solvent resistance for industrial solvent recovery. <i>Journal of Membrane Science</i> , <b>2021</b> , 638, 119678	9.6	6
21	Optimization of interfacial polymerization to fabricate thin-film composite hollow fiber membranes in modules for brackish water reverse osmosis. <i>Journal of Membrane Science</i> , <b>2021</b> , 626, 119187	9.6	5
20	Synthesis and characterization of a metal chelate-bridged quasi-ladder main chain discotic liquid crystal polymer. <i>Liquid Crystals</i> , <b>2001</b> , 28, 477-481	2.3	4
19	Membrane Technology: Advanced Porous Materials in Mixed Matrix Membranes (Adv. Mater. 47/2018). <i>Advanced Materials</i> , <b>2018</b> , 30, 1870355	24	4
18	Revitalize integrally skinned hollow fiber membranes with spatially impregnated 3D-macrocycles for organic solvent nanofiltration. <i>Chemical Engineering Journal</i> , <b>2021</b> , 422, 130015	14.7	4
17	Ternary fluoro-containing polyimide blends and fluoro-containing polyimide/polyester blends. <i>Polymers for Advanced Technologies</i> , <b>1997</b> , 8, 537-544	3.2	3
16	Experimental and theoretical estimations of surface tensions for commercial liquid crystalline polymers, Vectra (A-950, B-950 and Xydar (BRT-900. <i>Macromolecular Chemistry and Physics</i> , <b>1998</b> , 199, 1013-1017	2.6	3
15	Supramolecular Polymer Network Membranes with Molecular-Sieving Nanocavities for Efficient Pre-Combustion CO Capture <i>Small Methods</i> , <b>2022</b> , 6, e2101288	12.8	3
14	Novel Cellulose Triacetate (CTA)/Cellulose Diacetate (CDA) Blend Membranes Enhanced by Amine Functionalized ZIF-8 for CO Separation. <i>Polymers</i> , <b>2021</b> , 13,	4.5	3
13	Polybenzimidazoles (PBIs) and state-of-the-art PBI hollow fiber membranes for water, organic solvent and gas separations: a review. <i>Journal of Materials Chemistry A</i> ,	13	3

12	Plasticization-enhanced trimethylbenzene functionalized polyethersulfone hollow fiber membranes for propylene and propane separation. <i>Journal of Membrane Science</i> , <b>2022</b> , 647, 120293	9.6	2
11	Tunable Supramolecular Cavities Molecularly Homogenized in Polymer Membranes for Ultraefficient Precombustion CO Capture. <i>Advanced Materials</i> , <b>2021</b> , e2105156	24	2
10	Fabrication of thin-film composite hollow fiber membranes in modules for concentrating pharmaceuticals and separating sulphate from high salinity brine in the chlor-alkali process. <i>Journal of Membrane Science</i> , <b>2021</b> , 640, 119822	9.6	2
9	Gas transport properties of 6FDA-durene/1,4-phenylenediamine (pPDA) copolyimides <b>2000</b> , 38, 2703		2
8	Hydrogen Purification: UV-Rearranged PIM-1 Polymeric Membranes for Advanced Hydrogen Purification and Production (Adv. Energy Mater. 12/2012). <i>Advanced Energy Materials</i> , <b>2012</b> , 2, 1414-141	<b>2</b> 1.8	1
7	Evolution of surface chemistry and physical properties during thin film polymerization of thermotropic liquid crystalline polymers. <i>Journal of Adhesion Science and Technology</i> , <b>1999</b> , 13, 1193-120	)28	1
6	Tunable Supramolecular Cavities Molecularly Homogenized in Polymer Membranes for Ultraefficient Precombustion CO 2 Capture (Adv. Mater. 3/2022). <i>Advanced Materials</i> , <b>2022</b> , 34, 2270023	3 <sup>2</sup> 4	1
5	The effects of spinning conditions on asymmetric 6FDA/6FDAM polyimide hollow fibers for air separation <b>1997</b> , 65, 1555		1
4	Novel Sandwich-Structured Hollow Fiber Membrane for High-Efficiency Membrane Distillation and Scale-Up for Pilot Validation <i>Membranes</i> , <b>2022</b> , 12,	3.8	1
3	High recovery, point-of-collection plasma separation from blood using electrospun polyacrylonitrile membranes. <i>AICHE Journal</i> , <b>2021</b> , 67, e17088	3.6	O
2	Materials for Water Remediation (Membranes) <b>2016</b> , 37-74		
1	Scale Up and Validation of Novel Tri-Bore PVDF Hollow Fiber Membranes for Membrane Distillation Application in Desalination and Industrial Wastewater Recycling. <i>Membranes</i> , <b>2022</b> , 12, 573	3.8	