Kai Yu Wang

List of Publications by Year in Descending Order

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

#	Paper	IF	Citations
263	Tunable Supramolecular Cavities Molecularly Homogenized in Polymer Membranes for Ultraefficient Precombustion CO 2 Capture (Adv. Mater. 3/2022). *Advanced Materials*, **2022**, 34, 2270023	24	1
262	Plasticization-enhanced trimethylbenzene functionalized polyethersulfone hollow fiber membranes for propylene and propane separation. *Journal of Membrane Science*, **2022**, 647, 120293	9.6	2
261	Supramolecular Polymer Network Membranes with Molecular-Sieving Nanocavities for Efficient Pre-Combustion CO Capture.. *Small Methods*, **2022**, 6, e2101288	12.8	3
260	Novel Sandwich-Structured Hollow Fiber Membrane for High-Efficiency Membrane Distillation and Scale-Up for Pilot Validation.. *Membranes*, **2022**, 12,	3.8	1
259	Scale Up and Validation of Novel Tri-Bore PVDF Hollow Fiber Membranes for Membrane Distillation Application in Desalination and Industrial Wastewater Recycling. *Membranes*, **2022**, 12, 573	3.8	
258	Tunable Supramolecular Cavities Molecularly Homogenized in Polymer Membranes for Ultraefficient Precombustion CO Capture. *Advanced Materials*, **2021**, e2105156	24	2
257	Thin-film nanocomposite membranes incorporated with defective ZIF-8 nanoparticles for brackish water and seawater desalination. *Journal of Membrane Science*, **2021**, 625, 119158	9.6	21
256	Optimization of interfacial polymerization to fabricate thin-film composite hollow fiber membranes in modules for brackish water reverse osmosis. *Journal of Membrane Science*, **2021**, 626, 119187	9.6	5
255	Nanofiltration-Inspired Janus Membranes with Simultaneous Wetting and Fouling Resistance for Membrane Distillation. *Environmental Science & Technology*, **2021**, 55, 7654-7664	10.3	15
254	Optimization of TFC-PES hollow fiber membranes for reverse osmosis (RO) and osmotically assisted reverse osmosis (OARO) applications. *Journal of Membrane Science*, **2021**, 625, 119156	9.6	10
253	High recovery, point-of-collection plasma separation from blood using electrospun polyacrylonitrile membranes. *AICHE Journal*, **2021**, 67, e17088	3.6	0
252	Investigation of novel molecularly tunable thin-film nanocomposite nanofiltration hollow fiber membranes for boron removal. *Journal of Membrane Science*, **2021**, 620, 118887	9.6	10
251	Novel Cellulose Triacetate (CTA)/Cellulose Diacetate (CDA) Blend Membranes Enhanced by Amine Functionalized ZIF-8 for CO Separation. *Polymers*, **2021**, 13,	4.5	3
250	Revitalize integrally skinned hollow fiber membranes with spatially impregnated 3D-macrocycles for organic solvent nanofiltration. *Chemical Engineering Journal*, **2021**, 422, 130015	14.7	4
249	3D-macrocycles impregnated polybenzimidazole hollow fiber membranes with excellent organic solvent resistance for industrial solvent recovery. *Journal of Membrane Science*, **2021**, 638, 119678	9.6	6
248	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. *Journal of Membrane Science*, **2021**, 640, 119822	9.6	2
247	One-step cross-linking and tannic acid modification of polyacrylonitrile hollow fibers for organic solvent nanofiltration. *Journal of Membrane Science*, **2020**, 610, 118294	9.6	19

246	Design of nanofiltration (NF) hollow fiber membranes made from functionalized bore fluids containing polyethyleneimine (PEI) for heavy metal removal. *Journal of Membrane Science*, **2020**, 603, 118022	9.6	31
245	Molecularly tunable thin-film nanocomposite membranes with enhanced molecular sieving for organic solvent forward osmosis. *Nature Communications*, **2020**, 11, 1198	17.4	34
244	Rheologically controlled design of nature-inspired superhydrophobic and self-cleaning membranes for clean water production. *Npj Clean Water*, **2020**, 3,	11.2	18
243	Nanoclays-Incorporated Thin-Film Nanocomposite Membranes for Reverse Osmosis Desalination. *Advanced Materials Interfaces*, **2020**, 7, 1902108	4.6	23
242	Emerging thin-film nanocomposite (TFN) membranes for reverse osmosis: A review. *Water Research* , **2020**, 173, 115557	12.5	109
241	Infiltrating molecular gatekeepers with coexisting molecular solubility and 3D-intrinsic porosity into a microporous polymer scaffold for gas separation. *Journal of Materials Chemistry A*, **2020**, 8, 6196-6209	13	27
240	UiO-66-NH2 incorporated dual-layer hollow fibers made by immiscibility induced phase separation (I2PS) process for ethanol dehydration via pervaporation. *Journal of Membrane Science*, **2020**, 595, 117571	9.6	13
239	Self-standing and flexible covalent organic framework (COF) membranes for molecular separation. *Science Advances*, **2020**, 6,	14.3	66
238	Selection of crosslinkers and control of microstructure of vapor-phase crosslinked composite membranes for organic solvent nanofiltration. *Journal of Membrane Science*, **2020**, 616, 118582	9.6	17
237	Can Composite Janus Membranes with an Ultrathin Dense Hydrophilic Layer Resist Wetting in Membrane Distillation?. *Environmental Science & Technology*, **2020**, 54, 12713-12722	10.3	29
236	The Role of Fluorinated Aryl Ether Moiety in Polyimide-co-etherimide on Gas Transport Properties. *Industrial & Engineering Chemistry Research*, **2020**, 59, 5315-5323	3.9	9
235	Pre-treatment of wastewater retentate to mitigate fouling on the pressure retarded osmosis (PRO) process. *Separation and Purification Technology*, **2019**, 215, 390-397	8.3	26
234	A review of polymeric composite membranes for gas separation and energy production. *Progress in Polymer Science*, **2019**, 97, 101141	29.6	118
233	Separation of vegetable oil compounds and solvent recovery using commercial organic solvent nanofiltration membranes. *Journal of Membrane Science*, **2019**, 588, 117202	9.6	32
232	Design of omniphobic interfaces for membrane distillation - A review. *Water Research*, **2019**, 162, 64-77	12.5	116
231	110th Anniversary: Selection of Cross-Linkers and Cross-Linking Procedures for the Fabrication of Solvent-Resistant Nanofiltration Membranes: A Review. *Industrial & Engineering Chemistry Research*, **2019**, 58, 10678-10691	3.9	35
230	Solvent Recovery via Organic Solvent Pressure Assisted Osmosis. *Industrial & Engineering Chemistry Research*, **2019**, 58, 4970-4978	3.9	10
229	Thin film nanocomposite hollow fiber membranes comprising Na-functionalized carbon quantum dots for brackish water desalination. *Water Research*, **2019**, 154, 54-61	12.5	58

228	Design of zero liquid discharge desalination (ZLDD) systems consisting of freeze desalination, membrane distillation, and crystallization powered by green energies. *Desalination*, **2019**, 458, 66-75	10.3	61
227	A novel crosslinking technique towards the fabrication of high-flux polybenzimidazole (PBI) membranes for organic solvent nanofiltration (OSN). *Separation and Purification Technology*, **2019**, 209, 182-192	8.3	62
226	Schiff base reaction assisted one-step self-assembly method for efficient gravity-driven oil-water emulsion separation. *Separation and Purification Technology*, **2019**, 213, 437-446	8.3	19
225	Robust polybenzimidazole (PBI) hollow fiber membranes for organic solvent nanofiltration. *Journal of Membrane Science*, **2019**, 572, 580-587	9.6	46
224	Mitigation of inorganic fouling on pressure retarded osmosis (PRO) membranes by coagulation pretreatment of the wastewater concentrate feed. *Journal of Membrane Science*, **2019**, 572, 658-667	9.6	19
223	Hydrophobic Perfluoropolyether-Coated Thin-Film Composite Membranes for Organic Solvent Nanofiltration. *ACS Applied Polymer Materials*, **2019**, 1, 472-481	4.3	15
222	Membrane development and energy analysis of freeze desalination-vacuum membrane distillation hybrid systems powered by LNG regasification and solar energy. *Desalination*, **2019**, 449, 16-25	10.3	30
221	Low-Pressure Nanofiltration Hollow Fiber Membranes for Effective Fractionation of Dyes and Inorganic Salts in Textile Wastewater. *Environmental Science & Technology*, **2018**, 52, 3676-3684	10.3	84
220	Robust thin film composite PDMS/PAN hollow fiber membranes for water vapor removal from humid air and gases. *Separation and Purification Technology*, **2018**, 202, 345-356	8.3	46
219	Pharmaceutical concentration using organic solvent forward osmosis for solvent recovery. *Nature Communications*, **2018**, 9, 1426	17.4	71
218	New polyethersulfone (PESU) hollow fiber membranes for CO 2 capture. *Journal of Membrane Science*, **2018**, 552, 305-314	9.6	31
217	Precise Molecular Sieving Architectures with Janus Pathways for Both Polar and Nonpolar Molecules. *Advanced Materials*, **2018**, 30, 1705933	24	116
216	Graphene oxide (GO) laminar membranes for concentrating pharmaceuticals and food additives in organic solvents. *Carbon*, **2018**, 130, 503-514	10.4	62
215	Facile fabrication of sulfonated polyphenylenesulfone (sPPSU) membranes with high separation performance for organic solvent nanofiltration. *Journal of Membrane Science*, **2018**, 549, 550-558	9.6	44
214	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. *Journal of Membrane Science*, **2018**, 549, 217-226	9.6	41
213	The forward osmosis-pressure retarded osmosis (FO-PRO) hybrid system: A new process to mitigate membrane fouling for sustainable osmotic power generation. *Journal of Membrane Science*, **2018**, 559, 63-74	9.6	42
212	Solvent resistant hollow fiber membranes comprising P84 polyimide and amine-functionalized carbon nanotubes with potential applications in pharmaceutical, food, and petrochemical industries. *Chemical Engineering Journal*, **2018**, 345, 174-185	14.7	56
211	Thin-film composite hollow fiber membrane with inorganic salt additives for high mechanical strength and high power density for pressure-retarded osmosis. *Journal of Membrane Science*, **2018** , 555, 388-397	9.6	45

210	Omniphobic Hollow-Fiber Membranes for Vacuum Membrane Distillation. *Environmental Science & Technology*, **2018**, 52, 4472-4480	10.3	84
209	Dehydration of industrial isopropanol (IPA) waste by pervaporation and vapor permeation membranes. *Journal of Applied Polymer Science*, **2018**, 135, 45086	2.9	13
208	Sulfonated hyperbranched polyglycerol grafted membranes with antifouling properties for sustainable osmotic power generation using municipal wastewater. *Journal of Membrane Science*, **2018**, 563, 521-530	9.6	26
207	Advanced Porous Materials in Mixed Matrix Membranes. *Advanced Materials*, **2018**, 30, e1802401	24	141
206	Na+ functionalized carbon quantum dot incorporated thin-film nanocomposite membranes for selenium and arsenic removal. *Journal of Membrane Science*, **2018**, 564, 483-491	9.6	62
205	Advanced Anti-Fouling Membranes for Osmotic Power Generation from Wastewater via Pressure Retarded Osmosis (PRO). *Environmental Science & Technology*, **2018**, 52, 6686-6694	10.3	34
204	Green Layer-by-Layer Method for the Preparation of Polyacrylonitrile-Supported Zinc Benzene-1,4-dicarboxylic Acid Membranes. *ChemSusChem*, **2018**, 11, 2612-2619	8.3	17
203	Green Design of Poly(m-Phenylene Isophthalamide)-Based Thin-Film Composite Membranes for Organic Solvent Nanofiltration and Concentrating Lecithin in Hexane. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 10696-10705	8.3	27
202	Structural Tuning of Polymers of Intrinsic Microporosity via the Copolymerization with Macrocyclic 4-tert-butylcalix[4]arene for Enhanced Gas Separation Performance. *Advanced Sustainable Systems*, **2018**, 2, 1800044	5.9	28
201	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. *Journal of Membrane Science*, **2018**, 548, 319-331	9.6	88
200	Polyarylether membranes for dehydration of ethanol and methanol via pervaporation. *Separation and Purification Technology*, **2018**, 193, 165-174	8.3	29
199	Membrane Technology: Advanced Porous Materials in Mixed Matrix Membranes (Adv. Mater. 47/2018). *Advanced Materials*, **2018**, 30, 1870355	24	4
198	Applications of carbon quantum dots (CQDs) in membrane technologies: A review. *Water Research*, **2018**, 147, 43-49	12.5	131
197	Developing ultra-high gas permeance PVDF hollow fibers for air filtration applications. *Separation and Purification Technology*, **2018**, 205, 184-195	8.3	26
196	Facile fabrication of solvent resistant thin film composite membranes by interfacial crosslinking reaction between polyethylenimine and dibromo-p-xylene on polybenzimidazole substrates. *Journal of Membrane Science*, **2018**, 560, 115-124	9.6	43
195	Ultrahigh Flux Composite Hollow Fiber Membrane via Highly Crosslinked PDMS for Recovery of Hydrocarbons: Propane and Propene. *Macromolecular Rapid Communications*, **2018**, 39, 1700535	4.8	20
194	Thermally treated ammonia functionalized graphene oxide/polyimide membranes for pervaporation dehydration of isopropanol. *Journal of Membrane Science*, **2017**, 528, 231-242	9.6	51
193	Flexible thermally treated 3D PIM-CD molecular sieve membranes exceeding the upper bound line for propylene/propane separation. *Journal of Materials Chemistry A*, **2017**, 5, 4583-4595	13	48

192	High-performance UiO-66/polyimide mixed matrix membranes for ethanol, isopropanol and n-butanol dehydration via pervaporation. *Journal of Membrane Science*, **2017**, 531, 16-26	9.6	63
191	Mass transport of various membrane configurations in pressure retarded osmosis (PRO). *Journal of Membrane Science*, **2017**, 537, 160-176	9.6	17
190	Design of high efficiency PVDF-PEG hollow fibers for air filtration of ultrafine particles. *Journal of Membrane Science*, **2017**, 535, 342-349	9.6	55
189	Molecularly Tuned Free Volume of Vapor Cross-Linked 6FDA-Durene/ZIF-71 MMMs for H /CO Separation at 150 ℃. *Advanced Materials*, **2017**, 29, 1603833	24	78
188	Forward osmosis for oily wastewater reclamation: Multi-charged oxalic acid complexes as draw solutes. *Water Research*, **2017**, 122, 580-590	12.5	42
187	PVDF hollow fibers with novel sandwich structure and superior wetting resistance for vacuum membrane distillation. *Desalination*, **2017**, 417, 94-101	10.3	31
186	Novel PVDF membranes comprising n-butylamine functionalized graphene oxide for direct contact membrane distillation. *Journal of Membrane Science*, **2017**, 539, 34-42	9.6	78
185	Fluorographite modified PVDF membranes for seawater desalination via direct contact membrane distillation. *Desalination*, **2017**, 413, 119-126	10.3	54
184	Mechanically Strong and Flexible Hydrolyzed Polymers of Intrinsic Microporosity (PIM-1) Membranes. *Journal of Polymer Science, Part B: Polymer Physics*, **2017**, 55, 344-354	2.6	23
183	From ultrafiltration to nanofiltration: Hydrazine cross-linked polyacrylonitrile hollow fiber membranes for organic solvent nanofiltration. *Journal of Membrane Science*, **2017**, 542, 289-299	9.6	74
182	Cooling Crystallization of Sodium Chloride via Hollow Fiber Devices to Convert Waste Concentrated Brines to Useful Products. *Industrial & Engineering Chemistry Research*, **2017**, 56, 10183-10192	3.9	16
181	Two-dimensional (2D) particle coating on membranes for pervaporation dehydration of isopropanol: A new approach to seal defects and enhance separation performance. *Journal of Membrane Science*, **2017**, 544, 378-387	9.6	16
180	Thermally evolved and boron bridged graphene oxide (GO) frameworks constructed on microporous hollow fiber substrates for water and organic matters separation. *Carbon*, **2017**, 123, 193-204	10.4	17
179	High-performance composite hollow fiber membrane for flue gas and air separations. *Journal of Membrane Science*, **2017**, 541, 367-377	9.6	78
178	Novel Hollow Fiber Air Filters for the Removal of Ultrafine Particles in PM with Repetitive Usage Capability. *Environmental Science & Technology*, **2017**, 51, 10041-10049	10.3	50
177	A pilot study on pressure retarded osmosis operation and effective cleaning strategies. *Desalination*, **2017**, 420, 273-282	10.3	22
176	Nanoparticles Embedded in Amphiphilic Membranes for Carbon Dioxide Separation and Dehumidification. *ChemSusChem*, **2017**, 10, 4046-4055	8.3	25
175	Phase Inversion Directly Induced Tight Ultrafiltration (UF) Hollow Fiber Membranes for Effective Removal of Textile Dyes. *Environmental Science & Technology*, **2017**, 51, 14254-14261	10.3	49

174	Carbon Quantum Dots Grafted Antifouling Membranes for Osmotic Power Generation via Pressure-Retarded Osmosis Process. *Environmental Science & Technology*, **2017**, 51, 14016-14023	10.3	46
173	Fabrication of loose inner-selective polyethersulfone (PES) hollow fibers by one-step spinning process for nanofiltration (NF) of textile dyes. *Journal of Membrane Science*, **2017**, 541, 413-424	9.6	55
172	UiO-66 incorporated thin-film nanocomposite membranes for efficient selenium and arsenic removal. *Journal of Membrane Science*, **2017**, 541, 262-270	9.6	130
171	Tuning water content in polymer dopes to boost the performance of outer-selective thin-film composite (TFC) hollow fiber membranes for osmotic power generation. *Journal of Membrane Science*, **2017**, 524, 97-107	9.6	39
170	Design and fabrication of inner-selective thin-film composite (TFC) hollow fiber modules for pressure retarded osmosis (PRO). *Separation and Purification Technology*, **2017**, 172, 32-42	8.3	39
169	Cleaning strategies and membrane flux recovery on anti-fouling membranes for pressure retarded osmosis. *Journal of Membrane Science*, **2017**, 522, 116-123	9.6	36
168	Molecular Design of Nanofiltration Membranes for the Recovery of Phosphorus from Sewage Sludge. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 5570-5577	8.3	31
167	Particle-Size Effects on Gas Transport Properties of 6FDA-Durene/ZIF-71 Mixed Matrix Membranes. *Industrial & Engineering Chemistry Research*, **2016**, 55, 9507-9517	3.9	70
166	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
165	Development of high performance carboxylated PIM-1/P84 blend membranes for pervaporation dehydration of isopropanol and CO2/CH4 separation. *Journal of Membrane Science*, **2016**, 518, 110-119	9.6	40
164	Zwitterions coated hollow fiber membranes with enhanced antifouling properties for osmotic power generation from municipal wastewater. *Water Research*, **2016**, 104, 389-396	12.5	51
163	Materials for Water Remediation (Membranes) **2016**, 37-74		
162	In-situ cross-linked PVDF membranes with enhanced mechanical durability for vacuum membrane distillation. *AICHE Journal*, **2016**, 62, 4013-4022	3.6	21
161	Effects of Different Ionic Liquids as Green Solvents on the Formation and Ultrafiltration Performance of CA Hollow Fiber Membranes. *Industrial & Engineering Chemistry Research*, **2016**, 55, 7505-7513	3.9	33
160	Evolution of micro-deformation in inner-selective thin film composite hollow fiber membranes and its implications for osmotic power generation. *Journal of Membrane Science*, **2016**, 516, 104-112	9.6	32
159	Experiments and Modeling of Boric Acid Permeation through Double-Skinned Forward Osmosis Membranes. *Environmental Science & Technology*, **2016**, 50, 7696-705	10.3	16
158	Outer-selective thin film composite (TFC) hollow fiber membranes for osmotic power generation. *Journal of Membrane Science*, **2016**, 505, 157-166	9.6	39
157	Facile Preparation of Antifouling Hollow Fiber Membranes for Sustainable Osmotic Power Generation. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 1154-1160	8.3	33

156	Effective As(III) Removal by A Multi-Charged Hydroacid Complex Draw Solute Facilitated Forward Osmosis-Membrane Distillation (FO-MD) Processes. *Environmental Science & Technology*, **2016**, 50, 2363-70	10.3	37
155	Combination of forward osmosis (FO) process with coagulation/flocculation (CF) for potential treatment of textile wastewater. *Water Research*, **2016**, 91, 361-70	12.5	114
154	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). *Water Research*, **2016**, 91, 104-14	12.5	84
153	Energy recovery by pressure retarded osmosis (PRO) in SWRO-PRO integrated processes. *Applied Energy*, **2016**, 162, 687-698	10.7	87
152	Negatively charged hyperbranched polyglycerol grafted membranes for osmotic power generation from municipal wastewater. *Water Research*, **2016**, 89, 50-8	12.5	47
151	Zwitterionic polymers grafted poly(ether sulfone) hollow fiber membranes and their antifouling behaviors for osmotic power generation. *Journal of Membrane Science*, **2016**, 497, 142-152	9.6	100
150	Membrane fouling and anti-fouling strategies using RO retentate from a municipal water recycling plant as the feed for osmotic power generation. *Water Research*, **2016**, 88, 144-155	12.5	53
149	Freeze desalination of seawater using LNG cold energy. *Water Research*, **2016**, 102, 282-293	12.5	65
148	Blends of a Polymer of Intrinsic Microporosity and Partially Sulfonated Polyphenylenesulfone for Gas Separation. *ChemSusChem*, **2016**, 9, 1953-62	8.3	60
147	Osmotic power production from seawater brine by hollow fiber membrane modules: Net power output and optimum operating conditions. *AICHE Journal*, **2016**, 62, 1216-1225	3.6	10
146	Teflon AF2400/Ultem composite hollow fiber membranes for alcohol dehydration by high-temperature vapor permeation. *AICHE Journal*, **2016**, 62, 1747-1757	3.6	19
145	Dual-skinned polyamide/poly(vinylidene fluoride)/cellulose acetate membranes with embedded woven. *Journal of Membrane Science*, **2016**, 520, 840-849	9.6	18
144	Miscible blends of carboxylated polymers of intrinsic microporosity (cPIM-1) and Matrimid. *Polymer*, **2015**, 59, 290-297	3.9	46
143	Nanometric Graphene Oxide Framework Membranes with Enhanced Heavy Metal Removal via Nanofiltration. *Environmental Science & Technology*, **2015**, 49, 10235-42	10.3	309
142	Photo-oxidative PIM-1 based mixed matrix membranes with superior gas separation performance. *Journal of Materials Chemistry A*, **2015**, 3, 17273-17281	13	81
141	A slow-fast phase separation (SFPS) process to fabricate dual-layer hollow fiber substrates for thin-film composite (TFC) organic solvent nanofiltration (OSN) membranes. *Chemical Engineering Science*, **2015**, 129, 232-242	4.4	58
140	Engineering design of outer-selective tribore hollow fiber membranes for forward osmosis and oil-water separation. *AICHE Journal*, **2015**, 61, 4491-4501	3.6	15
139	Hollow Fiber Membrane Dehumidification Device for Air Conditioning System. *Membranes*, **2015**, 5, 722-38	3.8	51

138	Hybrid pressure retarded osmosis-membrane distillation (PRO-MD) process for osmotic power and clean water generation. *Environmental Science: Water Research and Technology*, **2015**, 1, 507-515	4.2	43
137	Flexible Hybrid Membranes of NiCo2O4-Doped Carbon 2 Core-Sheath Nanostructures for High-Performance Supercapacitors. *Journal of Physical Chemistry C*, **2015**, 119, 13442-13450	4.8	57
136	Water reclamation from emulsified oily wastewater via effective forward osmosis hollow fiber membranes under the PRO mode. *Water Research*, **2015**, 81, 54-63	12.5	87
135	Facile Synthesis of Dual-Layer Organic Solvent Nanofiltration (OSN) Hollow Fiber Membranes. *ACS Sustainable Chemistry and Engineering*, **2015**, 3, 3019-3023	8.3	82
134	Exploring the spinning and operations of multibore hollow fiber membranes for vacuum membrane distillation. *AICHE Journal*, **2014**, 60, 1078-1090	3.6	22
133	Robust and high performance pressure retarded osmosis hollow fiber membranes for osmotic power generation. *AICHE Journal*, **2014**, 60, 1107-1119	3.6	60
132	Pervaporation dehydration of acetone using P84 co-polyimide flat sheet membranes modified by vapor phase crosslinking. *Journal of Membrane Science*, **2014**, 458, 76-85	9.6	48
131	In-situ synthesis and cross-linking of polyamide thin film composite (TFC) membranes for bioethanol applications. *Journal of Membrane Science*, **2014**, 458, 47-57	9.6	30
130	Physical aging and carbon dioxide plasticization of thin polyimide films in mixed gas permeation. *Journal of Membrane Science*, **2014**, 450, 457-468	9.6	52
129	PIM-1 as an organic filler to enhance the gas separation performance of Ultem polyetherimide. *Journal of Membrane Science*, **2014**, 453, 614-623	9.6	58
128	Sustainable water recovery from oily wastewater via forward osmosis-membrane distillation (FO-MD). *Water Research*, **2014**, 52, 112-21	12.5	209
127	Chelating polymer modified P84 nanofiltration (NF) hollow fiber membranes for high efficient heavy metal removal. *Water Research*, **2014**, 63, 252-61	12.5	190
126	Thin-film composite membranes with modified polyvinylidene fluoride substrate for ethanol dehydration via pervaporation. *Chemical Engineering Science*, **2014**, 118, 173-183	4.4	43
125	Formation of defect-free polyetherimide/PIM-1 hollow fiber membranes for gas separation. *AICHE Journal*, **2014**, 60, 3848-3858	3.6	39
124	Treatment of highly concentrated wastewater containing multiple synthetic dyes by a combined process of coagulation/flocculation and nanofiltration. *Journal of Membrane Science*, **2014**, 469, 306-315	9.6	314
123	The ionic liquid [EMIM]OAc as a solvent to fabricate stable polybenzimidazole membranes for organic solvent nanofiltration. *Green Chemistry*, **2014**, 16, 1383-1392	10	123
122	Thickness dependent thermal rearrangement of an ortho-functional polyimide. *Journal of Membrane Science*, **2014**, 450, 308-312	9.6	17
121	High performance composite hollow fiber membranes for CO2/H2 and CO2/N2 separation. *International Journal of Hydrogen Energy*, **2014**, 39, 5043-5053	6.7	87

120	Ferric and cobaltous hydroacid complexes for forward osmosis (FO) processes. *Water Research*, **2014**, 58, 230-8	12.5	53
119	Physical aging and plasticization of thick and thin films of the thermally rearranged ortho-functional polyimide 6FDA□HAB. *Journal of Membrane Science*, **2014**, 458, 27-35	9.6	58
118	Novel nanofiltration membranes consisting of a sulfonated pentablock copolymer rejection layer for heavy metal removal. *Environmental Science & Technology*, **2014**, 48, 13880-7	10.3	110
117	Enhancement of flux and solvent stability of Matrimid□ thin-film composite membranes for organic solvent nanofiltration. *AICHE Journal*, **2014**, 60, 3623-3633	3.6	104
116	Fabrication and use of hollow fiber thin film composite membranes for ethanol dehydration. *Journal of Membrane Science*, **2014**, 450, 124-137	9.6	39
115	Silver□PEGylated dendrimer nanocomposite coating for anti-fouling thin film composite membranes for water treatment. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2013**, 436, 207-214	5.1	93
114	Design and synthesis of a fluoro-silane amine monomer for novel thin film composite membranes to dehydrate ethanol via pervaporation. *Journal of Materials Chemistry A*, **2013**, 1, 9814	13	54
113	Newly developed nanofiltration (NF) composite membranes by interfacial polymerization for Safranin O and Aniline blue removal. *Journal of Membrane Science*, **2013**, 430, 96-105	9.6	129
112	POSS-containing delamination-free dual-layer hollow fiber membranes for forward osmosis and osmotic power generation. *Journal of Membrane Science*, **2013**, 443, 144-155	9.6	87
111	The development of high-performance 6FDA-NDA/DABA/POSS/Ultem□ dual-layer hollow fibers for ethanol dehydration via pervaporation. *Journal of Membrane Science*, **2013**, 447, 163-176	9.6	38
110	Pushing the limits of high performance dual-layer hollow fiber fabricated via I2PS process in dehydration of ethanol. *AICHE Journal*, **2013**, 59, 3006-3018	3.6	22
109	Highly permeable chemically modified PIM-1/Matrimid membranes for green hydrogen purification. *Journal of Materials Chemistry A*, **2013**, 1, 13914	13	79
108	Effects of free volume in thin-film composite membranes on osmotic power generation. *AICHE Journal*, **2013**, 59, 4749-4761	3.6	42
107	Highly permeable aquaporin-embedded biomimetic membranes featuring a magnetic-aided approach. *RSC Advances*, **2013**, 3, 9178	3.7	49
106	Micro-morphology and formation of layer-by-layer membranes and their performance in osmotically driven processes. *Chemical Engineering Science*, **2013**, 101, 13-26	4.4	43
105	Room-temperature synthesis of ZIF-90 nanocrystals and the derived nano-composite membranes for hydrogen separation. *Journal of Materials Chemistry A*, **2013**, 1, 6081	13	117
104	Membrane Pervaporation **2013**, 259-299		10
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