

Tai-Shung Chung

List of Publications by Year in descending order

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681
papers

53,904
citations

701

121
h-index

3579

181
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694
all docs

694
docs citations

694
times ranked

20845
citing authors

#	ARTICLE	IF	CITATIONS
1	Mechanically strong Janus tri-bore hollow fiber membranes with asymmetric pores for anti-wetting and anti-fouling membrane distillation. <i>Chemical Engineering Journal</i> , 2022, 429, 132455.	12.7	21
2	Tunable Supramolecular Cavities Molecularly Homogenized in Polymer Membranes for Ultraefficient Precombustion CO ₂ Capture. <i>Advanced Materials</i> , 2022, 34, e2105156.	21.0	22
3	Supramolecular Polymer Network Membranes with Molecular Sieving Nanocavities for Efficient Precombustion CO ₂ Capture. <i>Small Methods</i> , 2022, 6, e2101288.	8.6	22
4	Plasticization-enhanced trimethylbenzene functionalized polyethersulfone hollow fiber membranes for propylene and propane separation. <i>Journal of Membrane Science</i> , 2022, 647, 120293.	8.2	7
5	Thin-film nanocomposite reverse osmosis membranes incorporated with citrate-modified layered double hydroxides (LDHs) for brackish water desalination and boron removal. <i>Desalination</i> , 2022, 527, 115583.	8.2	35
6	Unlock the secret of air blowing in developing high strength and superhydrophobic membranes for membrane distillation. <i>Desalination</i> , 2022, 527, 115579.	8.2	12
7	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> , 2022, 10, 8687-8718.	10.3	33
8	Pressure-assisted polydopamine modification of thin-film composite reverse osmosis membranes for enhanced desalination and antifouling performance. <i>Desalination</i> , 2022, 530, 115671.	8.2	29
9	Braid-reinforced polybenzimidazole (PBI) hollow fiber membranes for organic solvent nanofiltration (OSN). <i>Separation and Purification Technology</i> , 2022, 290, 120811.	7.9	13
10	Novel Sandwich-Structured Hollow Fiber Membrane for High-Efficiency Membrane Distillation and Scale-Up for Pilot Validation. <i>Membranes</i> , 2022, 12, 423.	3.0	4
11	The potential of calixarenes for membrane separation. <i>Chemical Engineering Research and Design</i> , 2022, 183, 538-545.	5.6	12
12	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> , 2022, 12, 573.	3.0	0
13	Forward osmosis for heavy metal removal: Multi-charged metallic complexes as draw solutes. <i>Desalination</i> , 2022, 539, 115924.	8.2	9
14	Novel reverse osmosis membranes incorporated with Co-Al layered double hydroxide (LDH) with enhanced performance for brackish water desalination. <i>Desalination</i> , 2021, 498, 114740.	8.2	45
15	Membranes made from nonsolvent-thermally induced phase separation (N-TIPS) for decellularization of blood in dry plasma spot (DPS) applications. <i>Chemical Engineering Science</i> , 2021, 229, 116010.	3.8	9
16	High recovery, point-of-care collection plasma separation from blood using electrospun polyacrylonitrile membranes. <i>AIChE Journal</i> , 2021, 67, e17088.	3.6	2
17	Investigation of novel molecularly tunable thin-film nanocomposite nanofiltration hollow fiber membranes for boron removal. <i>Journal of Membrane Science</i> , 2021, 620, 118887.	8.2	26
18	Highly permeable thin film composite hollow fiber membranes for brackish water desalination by incorporating amino functionalized carbon quantum dots and hypochlorite treatment. <i>Journal of Membrane Science</i> , 2021, 620, 118952.	8.2	27

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19	Employing a green cross-linking method to fabricate polybenzimidazole (PBI) hollow fiber membranes for organic solvent nanofiltration (OSN). Separation and Purification Technology, 2021, 255, 117702.	7.9	40
20	Investigation of corrugation phenomenon in the inner contour of hollow fibers during the nonsolvent-induced phase-separation process. , 2021, , 85-104.		0
21	Polyimide hollow fiber membranes and their applications. , 2021, , 361-383.		1
22	Macrovoid evolution and critical factors to form macrovoid-free hollow fiber membranes. , 2021, , 141-161.		2
23	Hollow fiber membranes for membrane distillation applications. , 2021, , 495-521.		0
24	The effects of spinneret dimension and hollow fiber dimension on gas separation performance of ultra-thin defect-free Torlon hollow fiber membranes. , 2021, , 187-205.		1
25	High performance dual-layer hollow fiber fabricated via novel immiscibility-induced phase separation (I2PS) process for dehydration of ethanol. , 2021, , 407-430.		0
26	Design and fabrication of hollow fiber membrane modules. , 2021, , 225-252.		5
27	The investigation of irregular inner skin morphology of hollow fiber membranes at high-speed spinning and the solutions to overcome it. , 2021, , 105-122.		1
28	Design and fabrication of lotus root-like multibore hollow fiber membrane for direct contact membrane distillation. , 2021, , 291-314.		0
29	Rheology and phase inversion behavior of polyphenylenesulfone (PPSU) and sulfonated PPSU for membrane formation. , 2021, , 163-185.		0
30	The thickness and air gap dependence of macrovoid evolution in phase-inversion asymmetric hollow fiber membranes. , 2021, , 123-140.		2
31	Solvent transport properties of POSS nanocomposites. , 2021, , 405-419.		0
32	Delamination of single layer hollow fiber membranes induced by bi-directional phase separation. Journal of Membrane Science, 2021, 622, 118992.	8.2	4
33	Ultra-strong polymeric hollow fiber membranes for saline dewatering and desalination. Nature Communications, 2021, 12, 2338.	12.8	37
34	Thin-film nanocomposite membranes incorporated with defective ZIF-8 nanoparticles for brackish water and seawater desalination. Journal of Membrane Science, 2021, 625, 119158.	8.2	51
35	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.	8.2	19
36	Advanced multiple-layer composite CTA/CDA hollow fiber membranes for CO2 separations. Journal of Membrane Science, 2021, 625, 119124.	8.2	14

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37	Nanofiltration-Inspired Janus Membranes with Simultaneous Wetting and Fouling Resistance for Membrane Distillation. <i>Environmental Science & Technology</i> , 2021, 55, 7654-7664.	10.0	62
38	Optimization of TFC-PES hollow fiber membranes for reverse osmosis (RO) and osmotically assisted reverse osmosis (OARO) applications. <i>Journal of Membrane Science</i> , 2021, 625, 119156.	8.2	35
39	Nanovoid-Enhanced Thin-Film Composite Reverse Osmosis Membranes Using ZIF-67 Nanoparticles as a Sacrificial Template. <i>ACS Applied Materials & Interfaces</i> , 2021, 13, 33024-33033.	8.0	26
40	Polyphenylsulfone (PPSU)-Based Copolymeric Membranes: Effects of Chemical Structure and Content on Gas Permeation and Separation. <i>Polymers</i> , 2021, 13, 2745.	4.5	17
41	Novel Cellulose Triacetate (CTA)/Cellulose Diacetate (CDA) Blend Membranes Enhanced by Amine Functionalized ZIF-8 for CO ₂ Separation. <i>Polymers</i> , 2021, 13, 2946.	4.5	14
42	Revitalize integrally skinned hollow fiber membranes with spatially impregnated 3D-macrocycles for organic solvent nanofiltration. <i>Chemical Engineering Journal</i> , 2021, 422, 130015.	12.7	13
43	Fabrication of defect-free thin-film nanocomposite (TFN) membranes for reverse osmosis desalination. <i>Desalination</i> , 2021, 516, 115230.	8.2	41
44	3D-macrocycles impregnated polybenzimidazole hollow fiber membranes with excellent organic solvent resistance for industrial solvent recovery. <i>Journal of Membrane Science</i> , 2021, 638, 119678.	8.2	21
45	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> , 2021, 640, 119822.	8.2	16
46	Fabrication and applications of polyethersulfone hollow fiber membranes. , 2021, , 315-332.		0
47	Molecular elucidation of morphology and mechanical properties of PVDF hollow fiber membranes from aspects of phase inversion, crystallization, and rheology. , 2021, , 333-360.		4
48	Recent progress of organic solvent nanofiltration membranes. <i>Progress in Polymer Science</i> , 2021, 123, 101470.	24.7	107
49	The Role of Fluorinated Aryl Ether Moiety in Polyimide- <i>co</i> -etherimide on Gas Transport Properties. <i>Industrial & Engineering Chemistry Research</i> , 2020, 59, 5315-5323.	3.7	18
50	An omniphobic slippery membrane with simultaneous anti-wetting and anti-scaling properties for robust membrane distillation. <i>Journal of Membrane Science</i> , 2020, 595, 117572.	8.2	98
51	Nanostructured Membranes for Enhanced Forward Osmosis and Pressure-Retarded Osmosis. , 2020, , 373-394.		7
52	UiO-66-NH ₂ incorporated dual-layer hollow fibers made by immiscibility induced phase separation (I2PS) process for ethanol dehydration via pervaporation. <i>Journal of Membrane Science</i> , 2020, 595, 117571.	8.2	21
53	Effects of relative humidity, particle hygroscopicity, and filter hydrophilicity on filtration performance of hollow fiber air filters. <i>Journal of Membrane Science</i> , 2020, 595, 117561.	8.2	25
54	Self-standing and flexible covalent organic framework (COF) membranes for molecular separation. <i>Science Advances</i> , 2020, 6, .	10.3	168

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55	Selection of crosslinkers and control of microstructure of vapor-phase crosslinked composite membranes for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2020, 616, 118582.	8.2	31
56	Can Composite Janus Membranes with an Ultrathin Dense Hydrophilic Layer Resist Wetting in Membrane Distillation?. <i>Environmental Science & Technology</i> , 2020, 54, 12713-12722.	10.0	71
57	One-step cross-linking and tannic acid modification of polyacrylonitrile hollow fibers for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2020, 610, 118294.	8.2	36
58	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> , 2020, 603, 118022.	8.2	56
59	Janus membranes with asymmetric wettability via a layer-by-layer coating strategy for robust membrane distillation. <i>Journal of Membrane Science</i> , 2020, 603, 118031.	8.2	59
60	Molecularly tunable thin-film nanocomposite membranes with enhanced molecular sieving for organic solvent forward osmosis. <i>Nature Communications</i> , 2020, 11, 1198.	12.8	77
61	Rheologically controlled design of nature-inspired superhydrophobic and self-cleaning membranes for clean water production. <i>Npj Clean Water</i> , 2020, 3, .	8.0	35
62	Teflon AF2400/polyethylene membranes for organic solvent nanofiltration (OSN). <i>Journal of Membrane Science</i> , 2020, 602, 117972.	8.2	24
63	Nanoclaysâ€”Incorporated Thinâ€”Film Nanocomposite Membranes for Reverse Osmosis Desalination. <i>Advanced Materials Interfaces</i> , 2020, 7, 1902108.	3.7	43
64	Emerging thin-film nanocomposite (TFN) membranes for reverse osmosis: A review. <i>Water Research</i> , 2020, 173, 115557.	11.3	230
65	Thin-film nanocomposite membranes incorporated with UiO-66-NH ₂ nanoparticles for brackish water and seawater desalination. <i>Journal of Membrane Science</i> , 2020, 604, 118039.	8.2	116
66	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> , 2020, 8, 6196-6209.	10.3	47
67	A novel crosslinking technique towards the fabrication of high-flux polybenzimidazole (PBI) membranes for organic solvent nanofiltration (OSN). <i>Separation and Purification Technology</i> , 2019, 209, 182-192.	7.9	104
68	High performance dual-layer hollow fiber membrane of sulfonated polyphenylsulfone/Polybenzimidazole for hydrogen purification. <i>Journal of Membrane Science</i> , 2019, 591, 117292.	8.2	41
69	Pre-treatment of wastewater retentate to mitigate fouling on the pressure retarded osmosis (PRO) process. <i>Separation and Purification Technology</i> , 2019, 215, 390-397.	7.9	37
70	Fabrication of organic solvent nanofiltration membranes via facile bioinspired one-step modification. <i>Chemical Engineering Science</i> , 2019, 198, 74-84.	3.8	36
71	A review of polymeric composite membranes for gas separation and energy production. <i>Progress in Polymer Science</i> , 2019, 97, 101141.	24.7	219
72	Separation of vegetable oil compounds and solvent recovery using commercial organic solvent nanofiltration membranes. <i>Journal of Membrane Science</i> , 2019, 588, 117202.	8.2	47

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73	Design of omniphobic interfaces for membrane distillation – A review. <i>Water Research</i> , 2019, 162, 64-77.	11.3	204
74	WS2 deposition on cross-linked polyacrylonitrile with synergistic transformation to yield organic solvent nanofiltration membranes. <i>Journal of Membrane Science</i> , 2019, 588, 117219.	8.2	27
75	110th Anniversary: Selection of Cross-Linkers and Cross-Linking Procedures for the Fabrication of Solvent-Resistant Nanofiltration Membranes: A Review. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 10678-10691.	3.7	71
76	Effects of Pluronic F127 on phase inversion and membrane formation of PAN hollow fibers for air filtration. <i>Journal of Membrane Science</i> , 2019, 584, 137-147.	8.2	32
77	Emerging R&D on membranes and systems for water reuse and desalination. <i>Chinese Journal of Chemical Engineering</i> , 2019, 27, 1578-1585.	3.5	27
78	Hydroxyl-terminated poly(ethyleneimine) polymer enhanced ultrafiltration for boron removal. <i>Separation and Purification Technology</i> , 2019, 222, 214-220.	7.9	22
79	Solvent Recovery via Organic Solvent Pressure Assisted Osmosis. <i>Industrial & Engineering Chemistry Research</i> , 2019, 58, 4970-4978.	3.7	16
80	Enhanced membrane systems to harvest water and provide comfortable air via dehumidification & moisture condensation. <i>Separation and Purification Technology</i> , 2019, 220, 136-144.	7.9	39
81	Thin film nanocomposite hollow fiber membranes comprising Na ⁺ -functionalized carbon quantum dots for brackish water desalination. <i>Water Research</i> , 2019, 154, 54-61.	11.3	79
82	Design of zero liquid discharge desalination (ZLDD) systems consisting of freeze desalination, membrane distillation, and crystallization powered by green energies. <i>Desalination</i> , 2019, 458, 66-75.	8.2	96
83	Schiff base reaction assisted one-step self-assembly method for efficient gravity-driven oil-water emulsion separation. <i>Separation and Purification Technology</i> , 2019, 213, 437-446.	7.9	30
84	H ₂ /CO ₂ separation enhancement via chemical modification of polybenzimidazole nanostructure. <i>Journal of Membrane Science</i> , 2019, 572, 343-349.	8.2	43
85	Robust polybenzimidazole (PBI) hollow fiber membranes for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2019, 572, 580-587.	8.2	74
86	Mitigation of inorganic fouling on pressure retarded osmosis (PRO) membranes by coagulation pretreatment of the wastewater concentrate feed. <i>Journal of Membrane Science</i> , 2019, 572, 658-667.	8.2	30
87	Vapor-phase crosslinked mixed matrix membranes with UiO-66-NH ₂ for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2019, 574, 124-135.	8.2	63
88	Hydrophobic Perfluoropolyether-Coated Thin-Film Composite Membranes for Organic Solvent Nanofiltration. <i>ACS Applied Polymer Materials</i> , 2019, 1, 472-481.	4.4	26
89	Influence of contaminants in glycerol/water mixtures during post-treatment on physicochemical properties and separation performance of air-dried membranes. <i>Journal of Membrane Science</i> , 2019, 572, 223-229.	8.2	12
90	Membrane development and energy analysis of freeze desalination-vacuum membrane distillation hybrid systems powered by LNG regasification and solar energy. <i>Desalination</i> , 2019, 449, 16-25.	8.2	42

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91	Reduced thermal rearrangement temperature via formation of zeolitic imidazolate framework (ZIF)-8-based nanocomposites for hydrogen purification. <i>Separation and Purification Technology</i> , 2019, 212, 965-973.	7.9	28
92	Low-Pressure Nanofiltration Hollow Fiber Membranes for Effective Fractionation of Dyes and Inorganic Salts in Textile Wastewater. <i>Environmental Science & Technology</i> , 2018, 52, 3676-3684.	10.0	129
93	Robust thin film composite PDMS/PAN hollow fiber membranes for water vapor removal from humid air and gases. <i>Separation and Purification Technology</i> , 2018, 202, 345-356.	7.9	68
94	Pharmaceutical concentration using organic solvent forward osmosis for solvent recovery. <i>Nature Communications</i> , 2018, 9, 1426.	12.8	109
95	Novel thin film composite hollow fiber membranes incorporated with carbon quantum dots for osmotic power generation. <i>Journal of Membrane Science</i> , 2018, 551, 94-102.	8.2	61
96	New polyethersulfone (PESU) hollow fiber membranes for CO ₂ capture. <i>Journal of Membrane Science</i> , 2018, 552, 305-314.	8.2	46
97	Precise Molecular Sieving Architectures with Janus Pathways for Both Polar and Nonpolar Molecules. <i>Advanced Materials</i> , 2018, 30, 1705933.	21.0	190
98	Graphene oxide (GO) laminar membranes for concentrating pharmaceuticals and food additives in organic solvents. <i>Carbon</i> , 2018, 130, 503-514.	10.3	84
99	Facile fabrication of sulfonated polyphenylenesulfone (sPPSU) membranes with high separation performance for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2018, 549, 550-558.	8.2	56
100	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> , 2018, 549, 217-226.	8.2	57
101	Techno-economic evaluation of various RO+PRO and RO+FO integrated processes. <i>Applied Energy</i> , 2018, 212, 1038-1050.	10.1	74
102	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> , 2018, 559, 63-74.	8.2	61
103	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> , 2018, 345, 174-185.	12.7	85
104	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> , 2018, 555, 388-397.	8.2	67
105	Performance enhancement in organic solvent nanofiltration by double crosslinking technique using sulfonated polyphenylsulfone (sPPSU) and polybenzimidazole (PBI). <i>Journal of Membrane Science</i> , 2018, 551, 204-213.	8.2	72
106	Novel thin-film composite nanofiltration membranes consisting of a zwitterionic co-polymer for selenium and arsenic removal. <i>Journal of Membrane Science</i> , 2018, 555, 299-306.	8.2	87
107	Omniphobic Hollow-Fiber Membranes for Vacuum Membrane Distillation. <i>Environmental Science & Technology</i> , 2018, 52, 4472-4480.	10.0	118
108	Dehydration of industrial isopropanol (IPA) waste by pervaporation and vapor permeation membranes. <i>Journal of Applied Polymer Science</i> , 2018, 135, 45086.	2.6	15

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109	A novel ionically cross-linked sulfonated polyphenylsulfone (sPPSU) membrane for organic solvent nanofiltration (OSN). <i>Journal of Membrane Science</i> , 2018, 545, 221-228.	8.2	68
110	Fabrication of loose outer-selective nanofiltration (NF) polyethersulfone (PES) hollow fibers via single-step spinning process for dye removal. <i>Separation and Purification Technology</i> , 2018, 192, 483-490.	7.9	67
111	Effects of chemical structure on gas transport properties of polyethersulfone polymers. <i>Polymer</i> , 2018, 135, 76-84.	3.8	36
112	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> , 2018, 548, 319-331.	8.2	116
113	Polyarylether membranes for dehydration of ethanol and methanol via pervaporation. <i>Separation and Purification Technology</i> , 2018, 193, 165-174.	7.9	34
114	Hydrogen storage in molecular clathrate cages under conditions of moderate pressure and ambient temperature. <i>International Journal of Hydrogen Energy</i> , 2018, 43, 19998-20003.	7.1	8
115	Applications of carbon quantum dots (CQDs) in membrane technologies: A review. <i>Water Research</i> , 2018, 147, 43-49.	11.3	220
116	High-performance multiple-layer PIM composite hollow fiber membranes for gas separation. <i>Journal of Membrane Science</i> , 2018, 563, 93-106.	8.2	102
117	Developing ultra-high gas permeance PVDF hollow fibers for air filtration applications. <i>Separation and Purification Technology</i> , 2018, 205, 184-195.	7.9	41
118	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> , 2018, 560, 115-124.	8.2	70
119	Membrane Distillation, Forward Osmosis, and Pressure-Retarded Osmosis Through Polymer Membranes. , 2018, , 323-346.		1
120	Molecular design of double crosslinked sulfonated polyphenylsulfone /polybenzimidazole blend membranes for an efficient hydrogen purification. <i>Journal of Membrane Science</i> , 2018, 563, 726-733.	8.2	38
121	Sulfonated hyperbranched polyglycerol grafted membranes with antifouling properties for sustainable osmotic power generation using municipal wastewater. <i>Journal of Membrane Science</i> , 2018, 563, 521-530.	8.2	31
122	Hollow-Fiber Membranes for Salinity Gradient Processes. , 2018, , 175-200.		1
123	Advanced Porous Materials in Mixed Matrix Membranes. <i>Advanced Materials</i> , 2018, 30, e1802401.	21.0	229
124	Organic solvent resistant membranes made from a cross-linked functionalized polymer with intrinsic microporosity (PIM) containing thioamide groups. <i>Chemical Engineering Journal</i> , 2018, 353, 689-698.	12.7	61
125	Na ⁺ functionalized carbon quantum dot incorporated thin-film nanocomposite membranes for selenium and arsenic removal. <i>Journal of Membrane Science</i> , 2018, 564, 483-491.	8.2	85
126	Advanced Anti-Fouling Membranes for Osmotic Power Generation from Wastewater via Pressure Retarded Osmosis (PRO). <i>Environmental Science & Technology</i> , 2018, 52, 6686-6694.	10.0	50

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127	Integration of membrane distillation (MD) and solid hollow fiber cooling crystallization (SHFCC) systems for simultaneous production of water and salt crystals. <i>Journal of Membrane Science</i> , 2018, 564, 905-915.	8.2	16
128	Organic solvent nanofiltration (OSN) membranes made from plasma grafting of polyethylene glycol on cross-linked polyimide ultrafiltration substrates. <i>Journal of Membrane Science</i> , 2018, 565, 169-178.	8.2	74
129	Green Layer-by-Layer Method for the Preparation of Polyacrylonitrile-Supported Zinc Benzene-1,4-dicarboxylic Acid Membranes. <i>ChemSusChem</i> , 2018, 11, 2612-2619.	6.8	25
130	Particle grouping and agglomeration assisted by damper oscillation systems. <i>Separation and Purification Technology</i> , 2018, 207, 12-19.	7.9	7
131	Green Design of Poly(<i>m</i> -Phenylene Isophthalamide)-Based Thin-Film Composite Membranes for Organic Solvent Nanofiltration and Concentrating Lecithin in Hexane. <i>ACS Sustainable Chemistry and Engineering</i> , 2018, 6, 10696-10705.	6.7	46
132	Structural Tuning of Polymers of Intrinsic Microporosity via the Copolymerization with Macrocyclic 4- <i>tert</i> -butylcalix[4]arene for Enhanced Gas Separation Performance. <i>Advanced Sustainable Systems</i> , 2018, 2, 1800044.	5.3	34
133	Ultrahigh Flux Composite Hollow Fiber Membrane via Highly Crosslinked PDMS for Recovery of Hydrocarbons: Propane and Propene. <i>Macromolecular Rapid Communications</i> , 2018, 39, 1700535.	3.9	28
134	Thermally treated ammonia functionalized graphene oxide/polyimide membranes for pervaporation dehydration of isopropanol. <i>Journal of Membrane Science</i> , 2017, 528, 231-242.	8.2	62
135	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> , 2017, 5, 4583-4595.	10.3	69
136	Effects of polyethylene glycol on membrane formation and properties of hydrophilic sulfonated polyphenylenesulfone (sPPSU) membranes. <i>Journal of Membrane Science</i> , 2017, 531, 27-35.	8.2	73
137	High-performance UiO-66/polyimide mixed matrix membranes for ethanol, isopropanol and n-butanol dehydration via pervaporation. <i>Journal of Membrane Science</i> , 2017, 531, 16-26.	8.2	82
138	Boron-embedded hydrolyzed PIM-1 carbon membranes for synergistic ethylene/ethane purification. <i>Journal of Membrane Science</i> , 2017, 534, 92-99.	8.2	40
139	Design and fabrication of hollow fiber membrane modules. <i>Journal of Membrane Science</i> , 2017, 538, 96-107.	8.2	122
140	Mass transport of various membrane configurations in pressure retarded osmosis (PRO). <i>Journal of Membrane Science</i> , 2017, 537, 160-176.	8.2	21
141	Graphene oxide membranes for nanofiltration. <i>Current Opinion in Chemical Engineering</i> , 2017, 16, 9-15.	7.8	99
142	Design of high efficiency PVDF-PEG hollow fibers for air filtration of ultrafine particles. <i>Journal of Membrane Science</i> , 2017, 535, 342-349.	8.2	70
143	Molecularly Tuned Free Volume of Vapor Cross-Linked 6FDA-Durene/ZIF-71 MMMs for H ₂ /CO ₂ Separation at 150 °C. <i>Advanced Materials</i> , 2017, 29, 1603833.	21.0	98
144	Forward osmosis for oily wastewater reclamation: Multi-charged oxalic acid complexes as draw solutes. <i>Water Research</i> , 2017, 122, 580-590.	11.3	49

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145	PVDF hollow fibers with novel sandwich structure and superior wetting resistance for vacuum membrane distillation. <i>Desalination</i> , 2017, 417, 94-101.	8.2	41
146	Using green solvent, triethyl phosphate (TEP), to fabricate highly porous PVDF hollow fiber membranes for membrane distillation. <i>Journal of Membrane Science</i> , 2017, 539, 295-304.	8.2	95
147	Haze particles removal and thermally induced membrane dehumidification system. <i>Separation and Purification Technology</i> , 2017, 185, 24-32.	7.9	9
148	Novel PVDF membranes comprising n-butylamine functionalized graphene oxide for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2017, 539, 34-42.	8.2	103
149	Cross-linked mixed matrix membranes consisting of carboxyl-functionalized multi-walled carbon nanotubes and P84 polyimide for organic solvent nanofiltration (OSN). <i>Separation and Purification Technology</i> , 2017, 186, 243-254.	7.9	66
150	Fluorographite modified PVDF membranes for seawater desalination via direct contact membrane distillation. <i>Desalination</i> , 2017, 413, 119-126.	8.2	68
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286	Ferric and cobaltous hydroacid complexes for forward osmosis (FO) processes. <i>Water Research</i> , 2014, 58, 230-238.	11.3	56
287	Polyethyleneimine (PEI) cross-linked P84 nanofiltration (NF) hollow fiber membranes for Pb ²⁺ removal. <i>Journal of Membrane Science</i> , 2014, 452, 300-310.	8.2	182
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291	Thin film composite membranes on ceramic for pervaporation dehydration of isopropanol. <i>Journal of Membrane Science</i> , 2013, 448, 34-43.	8.2	63
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296	POSS-containing delamination-free dual-layer hollow fiber membranes for forward osmosis and osmotic power generation. <i>Journal of Membrane Science</i> , 2013, 443, 144-155.	8.2	97
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299	Hydroacid complexes: a new class of draw solutes to promote forward osmosis (FO) processes. <i>Chemical Communications</i> , 2013, 49, 8471.	4.1	69
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308	Understanding of low osmotic efficiency in forward osmosis: Experiments and modeling. <i>Desalination</i> , 2013, 313, 156-165.	8.2	20
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310	Micro-morphology and formation of layer-by-layer membranes and their performance in osmotically driven processes. <i>Chemical Engineering Science</i> , 2013, 101, 13-26.	3.8	46
311	Characteristics of water and salt transport, free volume and their relationship with the functional groups of novel cellulose esters. <i>Polymer</i> , 2013, 54, 4560-4569.	3.8	25
312	High performance carbon molecular sieve membranes derived from hyperbranched polyimide precursors for improved gas separation applications. <i>Carbon</i> , 2013, 53, 101-111.	10.3	49
313	Novel organic-inorganic thin film composite membranes with separation performance surpassing ceramic membranes for isopropanol dehydration. <i>Journal of Membrane Science</i> , 2013, 433, 60-71.	8.2	53
314	Study on water transport through a mechanically robust Aquaporin Z biomimetic membrane. <i>Journal of Membrane Science</i> , 2013, 445, 47-52.	8.2	22
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320	The effect of purge environment on thermal rearrangement of ortho-functional polyamide and polyimide. <i>Polymer</i> , 2013, 54, 2324-2334.	3.8	40
321	High performance thin film composite pressure retarded osmosis (PRO) membranes for renewable salinity-gradient energy generation. <i>Journal of Membrane Science</i> , 2013, 440, 108-121.	8.2	189
322	An aquaporin-based vesicle-embedded polymeric membrane for low energy water filtration. <i>Journal of Materials Chemistry A</i> , 2013, 1, 7592.	10.3	125
323	Development of simultaneous membrane distillation-crystallization (SMDC) technology for treatment of saturated brine. <i>Chemical Engineering Science</i> , 2013, 98, 160-172.	3.8	156
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329	Stabilization and immobilization of aquaporin reconstituted lipid vesicles for water purification. <i>Colloids and Surfaces B: Biointerfaces</i> , 2013, 102, 466-471.	5.0	92
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333	Highly Robust Thin-Film Composite Pressure Retarded Osmosis (PRO) Hollow Fiber Membranes with High Power Densities for Renewable Salinity-Gradient Energy Generation. <i>Environmental Science & Technology</i> , 2013, 47, 8070-8077.	10.0	124
334	Advanced FO membranes from newly synthesized CAP polymer for wastewater reclamation through an integrated FO&MD hybrid system. <i>AIChE Journal</i> , 2013, 59, 1245-1254.	3.6	48
335	Gypsum (CaSO ₄ ·2H ₂ O) Scaling on Polybenzimidazole and Cellulose Acetate Hollow Fiber Membranes under Forward Osmosis. <i>Membranes</i> , 2013, 3, 354-374.	3.0	24
336	Reply from Honglei Wang, Tai-Shung Chung, Yen Wah Tong, Wenyan Xie and Fang He. <i>General Physiology and Biophysics</i> , 2013, 32, 595-596.	0.9	0
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342	Cellulose esters for forward osmosis: Characterization of water and salt transport properties and free volume. <i>Polymer</i> , 2012, 53, 2664-2672.	3.8	37

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355	High performance dual-layer hollow fiber fabricated via novel immiscibility induced phase separation (I ² PS) process for dehydration of ethanol. <i>Journal of Membrane Science</i> , 2012, 421-422, 271-282.	8.2	34
356	Design and fabrication of lotus-root-like multi-bore hollow fiber membrane for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2012, 421-422, 361-374.	8.2	75
357	Natural gas purification and olefin/paraffin separation using cross-linkable dual-layer hollow fiber membranes comprising β -Cyclodextrin. <i>Journal of Membrane Science</i> , 2012, 423-424, 392-403.	8.2	42
358	Thin-film composite forward osmosis membranes with novel hydrophilic supports for desalination. <i>Journal of Membrane Science</i> , 2012, 423-424, 543-555.	8.2	212
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364	Highly Permeable and Selective Pore-Spanning Biomimetic Membrane Embedded with Aquaporin Z. <i>Small</i> , 2012, 8, 1185-1190.	10.0	158
365	Highly Permeable and Selective Pore-Spanning Biomimetic Membrane Embedded with Aquaporin Z. <i>Small</i> , 2012, 8, 1969-1969.	10.0	6
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367	UV-Rearranged PIM-1 Polymeric Membranes for Advanced Hydrogen Purification and Production. <i>Advanced Energy Materials</i> , 2012, 2, 1456-1466.	19.5	118
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375	Fabrication and positron annihilation spectroscopy (PAS) characterization of cellulose triacetate membranes for forward osmosis. <i>Journal of Membrane Science</i> , 2012, 394-395, 230-240.	8.2	64
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377	Thermal induced structural rearrangement of cardo-copolybenzoxazole membranes for enhanced gas transport properties. <i>Journal of Membrane Science</i> , 2012, 397-398, 51-65.	8.2	92
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380	Planar biomimetic aquaporin-incorporated triblock copolymer membranes on porous alumina supports for nanofiltration. <i>Journal of Membrane Science</i> , 2012, 409-410, 34-43.	8.2	98
381	Aquaporin-embedded biomimetic membranes for nanofiltration. <i>Journal of Membrane Science</i> , 2012, 407-408, 27-33.	8.2	139
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394	Hydrophilic Superparamagnetic Nanoparticles: Synthesis, Characterization, and Performance in Forward Osmosis Processes. <i>Industrial & Engineering Chemistry Research</i> , 2011, 50, 382-388.	3.7	182
395	Morphological architecture of dual-layer hollow fiber for membrane distillation with higher desalination performance. <i>Water Research</i> , 2011, 45, 5489-5500.	11.3	171
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413	Carbon molecular sieve membranes for biofuel separation. <i>Carbon</i> , 2011, 49, 369-375.	10.3	48
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416	Novel rectangular membranes with multiple hollow holes for ultrafiltration. <i>Journal of Membrane Science</i> , 2011, 372, 20-28.	8.2	31
417	Sublayer structure and reflection coefficient and their effects on concentration polarization and membrane performance in FO processes. <i>Journal of Membrane Science</i> , 2011, 376, 214-224.	8.2	119
418	Fundamentals of semi-crystalline poly(vinylidene fluoride) membrane formation and its prospects for biofuel (ethanol and acetone) separation via pervaporation. <i>Journal of Membrane Science</i> , 2011, 378, 149-162.	8.2	56
419	Development and positron annihilation spectroscopy (PAS) characterization of polyamide imide (PAI)–polyethersulfone (PES) based defect-free dual-layer hollow fiber membranes with an ultrathin dense-selective layer for gas separation. <i>Journal of Membrane Science</i> , 2011, 378, 541-550.	8.2	52
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422	Synthesis of mosaic membranes and application for egg white protein fractionation by partitioned free-flow isoelectric focusing (FFIEF). <i>Journal of Membrane Science</i> , 2010, 353, 94-102.	8.2	4
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428	Study of draw solutes using 2-methylimidazole-based compounds in forward osmosis. <i>Journal of Membrane Science</i> , 2010, 364, 242-252.	8.2	165
429	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> , 2010, 364, 278-289.	8.2	93
430	Polyamide–imide nanofiltration hollow fiber membranes with elongation-induced nanopore evolution. <i>AIChE Journal</i> , 2010, 56, 1481-1494.	3.6	82
431	Cellulose acetate nanofiltration hollow fiber membranes for forward osmosis processes. <i>Journal of Membrane Science</i> , 2010, 355, 36-44.	8.2	258
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435	Mechanistic understanding of CO ₂ -induced plasticization of a polyimide membrane: A combination of experiment and simulation study. <i>Polymer</i> , 2010, 51, 4439-4447.	3.8	67
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