List of Publications by Year in descending order

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RONG WANG

#	Article	IF	CITATIONS
1	Recent Development of Advanced Materials with Special Wettability for Selective Oil/Water Separation. Small, 2016, 12, 2186-2202.	5.2	719
2	Coupled effects of internal concentration polarization and fouling on flux behavior of forward osmosis membranes during humic acid filtration. Journal of Membrane Science, 2010, 354, 123-133.	4.1	688
3	Membrane fouling in osmotically driven membrane processes: A review. Journal of Membrane Science, 2016, 499, 201-233.	4.1	625
4	Progress in electrospun polymeric nanofibrous membranes for water treatment: Fabrication, modification and applications. Progress in Polymer Science, 2018, 77, 69-94.	11.8	582
5	Synthetic Membranes for Water Purification: Status and Future. Angewandte Chemie - International Edition, 2015, 54, 3368-3386.	7.2	553
6	Current status and development of membranes for CO2/CH4 separation: A review. International Journal of Greenhouse Gas Control, 2013, 12, 84-107.	2.3	529
7	Synthesis and characterization of flat-sheet thin film composite forward osmosis membranes. Journal of Membrane Science, 2011, 372, 292-302.	4.1	508
8	Characterization of novel forward osmosis hollow fiber membranes. Journal of Membrane Science, 2010, 355, 158-167.	4.1	502
9	Fabrication of polyvinylidene fluoride (PVDF) nanofiber membranes by electro-spinning for direct contact membrane distillation. Journal of Membrane Science, 2013, 425-426, 30-39.	4.1	364
10	Influence of membrane wetting on CO2 capture in microporous hollow fiber membrane contactors. Separation and Purification Technology, 2005, 46, 33-40.	3.9	345
11	Tough, Adhesive, Self-Healable, and Transparent Ionically Conductive Zwitterionic Nanocomposite Hydrogels as Skin Strain Sensors. ACS Applied Materials & Interfaces, 2019, 11, 3506-3515.	4.0	309
12	Effects of cross-linking modification on gas separation performance of Matrimid membranes. Journal of Membrane Science, 2003, 225, 77-90.	4.1	303
13	Thin-film composite hollow fiber membranes for pressure retarded osmosis (PRO) process with high power density. Journal of Membrane Science, 2012, 389, 25-33.	4.1	299
14	Carbonâ€Based Functional Materials Derived from Waste for Water Remediation and Energy Storage. Advanced Materials, 2017, 29, 1605361.	11.1	293
15	Engineering superhydrophobic surface on poly(vinylidene fluoride) nanofiber membranes for direct contact membrane distillation. Journal of Membrane Science, 2013, 440, 77-87.	4.1	292
16	Chemical cross-linking modification of polyimide membranes for gas separation. Journal of Membrane Science, 2001, 189, 231-239.	4.1	280
17	Desalination by biomimetic aquaporin membranes: Review of status and prospects. Desalination, 2013, 308, 34-40.	4.0	280
18	Synthesis of robust and high-performance aquaporin-based biomimetic membranes by interfacial polymerization-membrane preparation and RO performance characterization. Journal of Membrane Science, 2012, 423-424, 422-428.	4.1	272

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19	Interfacially polymerized composite nanofiltration hollow fiber membranes for low-pressure water softening. Journal of Membrane Science, 2013, 430, 129-139.	4.1	258
20	Characteristics and potential applications of a novel forward osmosis hollow fiber membrane. Desalination, 2010, 261, 365-372.	4.0	256
21	Allâ€Carbon Nanoarchitectures as Highâ€Performance Separation Membranes with Superior Stability. Advanced Functional Materials, 2015, 25, 7348-7359.	7.8	248
22	Harnessing Filler Materials for Enhancing Biogas Separation Membranes. Chemical Reviews, 2018, 118, 8655-8769.	23.0	239
23	Effect of membrane structure on mass-transfer in the membrane gas–liquid contacting process using microporous PVDF hollow fibers. Journal of Membrane Science, 2006, 285, 272-281.	4.1	234
24	Electrospun Superhydrophobic Membranes with Unique Structures for Membrane Distillation. ACS Applied Materials & Interfaces, 2014, 6, 16035-16048.	4.0	234
25	Seawater desalination by reverse osmosis: Current development and future challenges in membrane fabrication – A review. Journal of Membrane Science, 2021, 629, 119292.	4.1	231
26	Novel membrane surface modification to enhance anti-oil fouling property for membrane distillation application. Journal of Membrane Science, 2013, 447, 26-35.	4.1	222
27	Fabrication of novel poly(amide–imide) forward osmosis hollow fiber membranes with a positively charged nanofiltration-like selective layer. Journal of Membrane Science, 2011, 369, 196-205.	4.1	216
28	Performance improvement of PVDF hollow fiber-based membrane distillation process. Journal of Membrane Science, 2011, 369, 437-447.	4.1	216
29	Fabrication of Bioinspired Composite Nanofiber Membranes with Robust Superhydrophobicity for Direct Contact Membrane Distillation. Environmental Science & Technology, 2014, 48, 6335-6341.	4.6	216
30	Graphene oxide as effective selective barriers on a hollow fiber membrane for water treatment process. Journal of Membrane Science, 2015, 474, 244-253.	4.1	211
31	Carbon nanomaterials for advancing separation membranes: A strategic perspective. Carbon, 2016, 109, 694-710.	5.4	189
32	Preparation of polyamide thin film composite forward osmosis membranes using electrospun polyvinylidene fluoride (PVDF) nanofibers as substrates. Separation and Purification Technology, 2013, 118, 727-736.	3.9	187
33	Characterization of permeability and sorption in Matrimid/C60 mixed matrix membranes. Journal of Membrane Science, 2003, 211, 91-99.	4.1	185
34	Membrane biofouling and scaling in forward osmosis membrane bioreactor. Journal of Membrane Science, 2012, 403-404, 8-14.	4.1	182
35	Separation of CO2 from CH4 by using gas–liquid membrane contacting process. Journal of Membrane Science, 2007, 304, 163-172.	4.1	181
36	Modeling salt accumulation in osmotic membrane bioreactors: Implications for FO membrane selection and system operation. Journal of Membrane Science, 2011, 366, 314-324.	4.1	174

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37	Separation of CO2/CH4 through carbon molecular sieve membranes derived from P84 polyimide. Carbon, 2004, 42, 3123-3131.	5.4	168
38	Mixed polyamide-based composite nanofiltration hollow fiber membranes with improved low-pressure water softening capability. Journal of Membrane Science, 2014, 468, 52-61.	4.1	168
39	Influence of monomer concentrations on the performance of polyamide-based thin film composite forward osmosis membranes. Journal of Membrane Science, 2011, 381, 110-117.	4.1	166
40	Flexible and wearable strain sensors based on tough and self-adhesive ion conducting hydrogels. Journal of Materials Chemistry B, 2019, 7, 24-29.	2.9	165
41	Effect of polyethylene glycol (PEG) as an additive on the fabrication of polyvinylidene fluoride-co-hexafluropropylene (PVDF-HFP) asymmetric microporous hollow fiber membranes. Journal of Membrane Science, 2011, 369, 329-338.	4.1	161
42	Modeling of CO2 capture by three typical amine solutions in hollow fiber membrane contactors. Chemical Engineering and Processing: Process Intensification, 2004, 43, 849-856.	1.8	155
43	Modeling and experimental study of CO2 absorption in a hollow fiber membrane contactor. Journal of Membrane Science, 2006, 279, 301-310.	4.1	152
44	Factors affecting pore structure and performance of poly(vinylidene fluoride-co-hexafluoro) Tj ETQq0 0 0 rgBT /C	overlock 10 4.1) Tf 50 462 T
45	Elucidation of stoichiometric efficiency, radical generation and transformation pathway during catalytic oxidation of sulfamethoxazole via peroxymonosulfate activation. Water Research, 2019, 151, 64-74.	5.3	148

46	Optimization of operating conditions for a continuous membrane distillation crystallization process with zero salty water discharge. Journal of Membrane Science, 2014, 450, 1-11.	4.1	146
47	Sandwich-Architectured Poly(lactic acid)–Graphene Composite Food Packaging Films. ACS Applied Materials & Interfaces, 2016, 8, 9994-10004.	4.0	146
48	Morphological aspects and structure control of dual-layer asymmetric hollow fiber membranes formed by a simultaneous co-extrusion approach. Journal of Membrane Science, 2004, 243, 155-175.	4.1	145
49	Fabrication of poly(vinylidene fluoride-co-hexafluropropylene) (PVDF-HFP) asymmetric microporous hollow fiber membranes. Journal of Membrane Science, 2007, 305, 215-225.	4.1	145
50	Effect of additives on the fabrication of poly(vinylidene fluoride-co-hexafluropropylene) (PVDF-HFP) asymmetric microporous hollow fiber membranes. Journal of Membrane Science, 2008, 315, 195-204.	4.1	144
51	Crosslinked layer-by-layer polyelectrolyte nanofiltration hollow fiber membrane for low-pressure water softening with the presence of SO 4 2â°' in feed water. Journal of Membrane Science, 2015, 486, 169-176.	4.1	144
52	Nature gives the best solution for desalination: Aquaporin-based hollow fiber composite membrane with superior performance. Journal of Membrane Science, 2015, 494, 68-77.	4.1	141
53	Theoretical and experimental studies of membrane wetting in the membrane gas–liquid contacting process for CO2 absorption. Journal of Membrane Science, 2008, 308, 162-170.	4.1	140
54	Robust and High performance hollow fiber membranes for energy harvesting from salinity gradients by pressure retarded osmosis. Journal of Membrane Science, 2013, 448, 44-54.	4.1	140

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55	Study of integration of forward osmosis and biological process: Membrane performance under elevated salt environment. Desalination, 2011, 283, 123-130.	4.0	139
56	Surface Modification of Silicone for Biomedical Applications Requiring Long-Term Antibacterial, Antifouling, and Hemocompatible Properties. Langmuir, 2012, 28, 16408-16422.	1.6	139
57	Effect of substrate structure on the performance of thin-film composite forward osmosis hollow fiber membranes. Journal of Membrane Science, 2011, 382, 116-123.	4.1	138
58	A new integrated approach for dye removal from wastewater by polyoxometalates functionalized membranes. Journal of Hazardous Materials, 2016, 301, 462-470.	6.5	137
59	Synthesis and characterization of thin film nanocomposite forward osmosis membranes supported by silica nanoparticle incorporated nanofibrous substrate. Desalination, 2017, 401, 142-150.	4.0	137
60	Graphene Oxide Quantum Dots Covalently Functionalized PVDF Membrane with Significantly-Enhanced Bactericidal and Antibiofouling Performances. Scientific Reports, 2016, 6, 20142.	1.6	136
61	Novel mpg-C3N4/TiO2 nanocomposite photocatalytic membrane reactor for sulfamethoxazole photodegradation. Chemical Engineering Journal, 2018, 337, 183-192.	6.6	136
62	Inhibition of escherichia coli and proteus mirabilis adhesion and biofilm formation on medical grade silicone surface. Biotechnology and Bioengineering, 2012, 109, 336-345.	1.7	131
63	Preparation of high performance nanofiltration (NF) membranes incorporated with aquaporin Z. Journal of Membrane Science, 2014, 450, 181-188.	4.1	131
64	Membranes and processes for forward osmosis-based desalination: Recent advances and future prospects. Desalination, 2018, 434, 81-99.	4.0	130
65	Numerical simulation of heat and mass transfer in direct membrane distillation in a hollow fiber module with laminar flow. Journal of Membrane Science, 2011, 384, 107-116.	4.1	128
66	Fabrication of high performance polyethersulfone UF hollow fiber membranes using amphiphilic Pluronic block copolymers as pore-forming additives. Journal of Membrane Science, 2011, 380, 114-123.	4.1	128
67	Carbon-sensitized and nitrogen-doped TiO2 for photocatalytic degradation of sulfanilamide under visible-light irradiation. Water Research, 2011, 45, 5015-5026.	5.3	126
68	Fabrication of fluoropolyimide/polyethersulfone (PES) dual-layer asymmetric hollow fiber membranes for gas separation. Journal of Membrane Science, 2002, 198, 211-223.	4.1	125
69	Energy efficiency evaluation and economic analyses of direct contact membrane distillation system using Aspen Plus. Desalination, 2011, 283, 237-244.	4.0	125
70	Towards temperature driven forward osmosis desalination using Semi-IPN hydrogels as reversible draw agents. Water Research, 2013, 47, 3773-3781.	5.3	125
71	A high-performance and robust membrane with switchable super-wettability for oil/water separation under ultralow pressure. Journal of Membrane Science, 2017, 543, 123-132.	4.1	125
72	Surfactant effects on water recovery from produced water via direct-contact membrane distillation. Journal of Membrane Science, 2017, 528, 126-134.	4.1	124

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73	Performance enhancement and scaling control with gas bubbling in direct contact membrane distillation. Desalination, 2013, 308, 47-55.	4.0	122
74	Impact of DEA solutions with and without CO2 loading on porous polypropylene membranes intended for use as contactors. Journal of Membrane Science, 2004, 229, 147-157.	4.1	121
75	Chemical cross-linking modification of 6FDA-2,6-DAT hollow fiber membranes for natural gas separation. Journal of Membrane Science, 2003, 216, 257-268.	4.1	120
76	Novel designs for improving the performance of hollow fiber membrane distillation modules. Journal of Membrane Science, 2011, 384, 52-62.	4.1	119
77	Analysis of heat and mass transfer by CFD for performance enhancement in direct contact membrane distillation. Journal of Membrane Science, 2012, 405-406, 38-47.	4.1	119
78	Superoleophobic surface modification for robust membrane distillation performance. Journal of Membrane Science, 2017, 541, 162-173.	4.1	119
79	Urea-assisted one-step synthesis of cobalt ferrite impregnated ceramic membrane for sulfamethoxazole degradation via peroxymonosulfate activation. Chemical Engineering Journal, 2018, 343, 737-747.	6.6	119
80	Factors affecting flux performance of forward osmosis systems. Journal of Membrane Science, 2012, 394-395, 151-168.	4.1	118
81	Development of robust and superhydrophobic membranes to mitigate membrane scaling and fouling in membrane distillation. Journal of Membrane Science, 2020, 601, 117962.	4.1	118
82	High-performance nanocomposite membranes realized by efficient molecular sieving with CuBDC nanosheets. Chemical Communications, 2017, 53, 4254-4257.	2.2	116
83	Aquaporin-based biomimetic reverse osmosis membranes: Stability and long term performance. Journal of Membrane Science, 2016, 508, 94-103.	4.1	115
84	Preparation of supported lipid membranes for aquaporin Z incorporation. Colloids and Surfaces B: Biointerfaces, 2012, 94, 333-340.	2.5	113
85	Characterization of hollow fiber membranes in a permeator using binary gas mixtures. Chemical Engineering Science, 2002, 57, 967-976.	1.9	111
86	Preparation of Superhydrophilic and Underwater Superoleophobic Nanofiberâ€Based Meshes from Waste Glass for Multifunctional Oil/Water Separation. Small, 2017, 13, 1700391.	5.2	111
87	Simple method of deposition of CuO nanoparticles on a cellulose paper and its antibacterial activity. Chemical Engineering Journal, 2015, 262, 999-1008.	6.6	107
88	Membrane module design and dynamic shear-induced techniques to enhance liquid separation by hollow fiber modules: a review. Desalination and Water Treatment, 2013, 51, 3604-3627.	1.0	104
89	Fabrication of novel functionalized multi-walled carbon nanotube immobilized hollow fiber membranes for enhanced performance in forward osmosis process. Journal of Membrane Science, 2013, 446, 244-254.	4.1	102
90	Composite forward osmosis hollow fiber membranes: Integration of RO- and NF-like selective layers to enhance membrane properties of anti-scaling and anti-internal concentration polarization. Journal of Membrane Science, 2012, 394-395, 140-150.	4.1	99

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91	Unraveling the cooperative synergy of zero-dimensional graphene quantum dots and metal nanocrystals enabled by layer-by-layer assembly. Journal of Materials Chemistry A, 2018, 6, 1700-1713.	5.2	99
92	Hierarchically Structured Janus Membrane Surfaces for Enhanced Membrane Distillation Performance. ACS Applied Materials & Interfaces, 2019, 11, 25524-25534.	4.0	97
93	Mechano-Responsive, Tough, and Antibacterial Zwitterionic Hydrogels with Controllable Drug Release for Wound Healing Applications. ACS Applied Materials & Interfaces, 2020, 12, 52307-52318.	4.0	95
94	A critical review on diffusivity and the characterization of diffusivity of 6FDA–6FpDA polyimide membranes for gas separation. Journal of Membrane Science, 2002, 198, 259-271.	4.1	94
95	Polyvinylidene fluoride membrane modification via oxidant-induced dopamine polymerization for sustainable direct-contact membrane distillation. Journal of Membrane Science, 2018, 563, 31-42.	4.1	94
96	Pore-functionalized ceramic membrane with isotropically impregnated cobalt oxide for sulfamethoxazole degradation and membrane fouling elimination: Synergistic effect between catalytic oxidation and membrane separation. Applied Catalysis B: Environmental, 2019, 254, 37-46.	10.8	94
97	Thickness Dependence of Macrovoid Evolution in Wet Phase-Inversion Asymmetric Membranes. Industrial & Engineering Chemistry Research, 2004, 43, 1553-1556.	1.8	93
98	Synthesis and characterization of novel high-performance thin film nanocomposite (TFN) FO membranes with nanofibrous substrate reinforced by functionalized carbon nanotubes. Desalination, 2015, 370, 79-86.	4.0	93
99	Experimental and modeling studies on Ba0.5Sr0.5Co0.8Fe0.2O3â^î´ (BSCF) tubular membranes for air separation. Journal of Membrane Science, 2004, 243, 405-415.	4.1	92
100	Significantly enhanced water flux in forward osmosis desalination with polymer-graphene composite hydrogels as a draw agent. RSC Advances, 2013, 3, 887-894.	1.7	92
101	Surface modification of polyvinylidene fluoride-co-hexafluoropropylene (PVDF–HFP) hollow fiber membrane for membrane gas absorption. Journal of Membrane Science, 2011, 381, 183-191.	4.1	90
102	High performance flat sheet forward osmosis membrane with an NF-like selective layer on a woven fabric embedded substrate. Desalination, 2012, 287, 266-270.	4.0	90
103	Antifouling coating with controllable and sustained silver release for longâ€ŧerm inhibition of infection and encrustation in urinary catheters. Journal of Biomedical Materials Research - Part B Applied Biomaterials, 2015, 103, 519-528.	1.6	90
104	Effects of the support on the characteristics and permselectivity of thin film composite membranes. Journal of Membrane Science, 2019, 580, 12-23.	4.1	88
105	A review on polymer-based membranes for gas-liquid membrane contacting processes: Current challenges and future direction. Separation and Purification Technology, 2019, 229, 115791.	3.9	86
106	Modeling double-skinned FO membranes. Desalination, 2011, 283, 178-186.	4.0	85
107	Analysis of Membrane Distillation Crystallization System for High Salinity Brine Treatment with Zero Discharge Using Aspen Flowsheet Simulation. Industrial & Engineering Chemistry Research, 2012, 51, 13405-13413.	1.8	85
108	Novel method for incorporating hydrophobic silica nanoparticles on polyetherimide hollow fiber membranes for CO2 absorption in a gas–liquid membrane contactor. Journal of Membrane Science, 2014, 452, 379-389.	4.1	85

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109	Energy-efficient desalination by forward osmosis using responsive ionic liquid draw solutes. Environmental Science: Water Research and Technology, 2015, 1, 341-347.	1.2	84
110	Combined organic–inorganic fouling of forward osmosis hollow fiber membranes. Water Research, 2012, 46, 6329-6338.	5.3	83
111	Fabrication of a robust high-performance FO membrane by optimizing substrate structure and incorporating aquaporin into selective layer. Journal of Membrane Science, 2017, 525, 257-268.	4.1	83
112	CO2 switchable dual responsive polymers as draw solutes for forward osmosis desalination. Chemical Communications, 2013, 49, 8377.	2.2	82
113	Removal of haloacetic acids from swimming pool water by reverse osmosis and nanofiltration. Water Research, 2017, 116, 116-125.	5.3	82
114	Optimization of microstructured hollow fiber design for membrane distillation applications using CFD modeling. Journal of Membrane Science, 2012, 421-422, 258-270.	4.1	81
115	Surface-nucleated heterogeneous growth of zeolitic imidazolate framework – A unique precursor towards catalytic ceramic membranes: Synthesis, characterization and organics degradation. Chemical Engineering Journal, 2018, 353, 69-79.	6.6	81
116	Synthesis and characterization of high-performance novel thin film nanocomposite PRO membranes with tiered nanofiber support reinforced by functionalized carbon nanotubes. Journal of Membrane Science, 2015, 486, 151-160.	4.1	80
117	Design and development of layer-by-layer based low-pressure antifouling nanofiltration membrane used for water reclamation. Journal of Membrane Science, 2019, 584, 309-323.	4.1	80
118	Mass transfer study and modeling of gas–liquid membrane contacting process by multistage cascade model for CO2 absorption. Separation and Purification Technology, 2008, 63, 15-22.	3.9	78
119	Chemical Cross-Linking Modification of Polyimide/Poly(ether sulfone) Dual-Layer Hollow-Fiber Membranes for Gas Separation. Industrial & Engineering Chemistry Research, 2003, 42, 1190-1195.	1.8	77
120	Development of asymmetric 6FDA-2,6 DAT hollow fiber membranes for CO2/CH4 separation. Journal of Membrane Science, 2002, 207, 227-240.	4.1	76
121	Fabrication of lab-scale hollow fiber membrane modules with high packing density. Separation and Purification Technology, 2004, 40, 15-30.	3.9	76
122	Polymer-based membranes for solvent-resistant nanofiltration: A review. Chinese Journal of Chemical Engineering, 2017, 25, 1653-1675.	1.7	76
123	Investigation of shear stress effect within a spinneret on flux, separation and thermomechanical properties of hollow fiber ultrafiltration membranes. Journal of Membrane Science, 2000, 175, 197-213.	4.1	75
124	Effects of Additives and Coagulant Temperature on Fabrication of High Performance PVDF/Pluronic F127 Blend Hollow Fiber Membranes via Nonsolvent Induced Phase Separation. Chinese Journal of Chemical Engineering, 2012, 20, 71-79.	1.7	75
125	Fabrication of novel polyetherimide-fluorinated silica organic–inorganic composite hollow fiber membranes intended for membrane contactor application. Journal of Membrane Science, 2013, 443, 170-180.	4.1	75
126	Fabrication of bead-on-string polyacrylonitrile nanofibrous air filters with superior filtration efficiency and ultralow pressure drop. Separation and Purification Technology, 2020, 237, 116377.	3.9	75

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127	Fabrication and characterization of forward osmosis hollow fiber membranes with antifouling NF-like selective layer. Journal of Membrane Science, 2012, 394-395, 80-88.	4.1	74
128	Enhanced hollow fiber membrane performance via semi-dynamic layer-by-layer polyelectrolyte inner surface deposition for nanofiltration and forward osmosis applications. Reactive and Functional Polymers, 2015, 86, 154-160.	2.0	74
129	Polyamide-imide hollow fiber membranes crosslinked with amine-appended inorganic networks for application in solvent-resistant nanofiltration under low operating pressure. Journal of Membrane Science, 2016, 501, 152-160.	4.1	74
130	The roles of bacteriophages in membrane-based water andÂwastewater treatment processes: A review. Water Research, 2017, 110, 120-132.	5.3	73
131	Progress of photothermal membrane distillation for decentralized desalination: A review. Water Research, 2021, 201, 117299.	5.3	73
132	A modeling investigation on optimizing the design of forward osmosis hollow fiber modules. Journal of Membrane Science, 2012, 392-393, 76-87.	4.1	72
133	Insight into the role of amphiphilic pluronic block copolymer as pore-forming additive in PVDF membrane formation. Journal of Membrane Science, 2013, 446, 492-503.	4.1	72
134	Fabrication of aquaporin-based biomimetic membrane for seawater desalination. Desalination, 2019, 467, 103-112.	4.0	72
135	Three-Dimensional-Printable Thermo/Photo-Cross-Linked Methacrylated Chitosan–Gelatin Hydrogel Composites for Tissue Engineering. ACS Applied Materials & Interfaces, 2021, 13, 22902-22913.	4.0	72
136	Effect of PVDF dope rheology on the structure of hollow fiber membranes used for CO2 capture. Journal of Membrane Science, 2006, 281, 334-344.	4.1	71
137	Development of a novel electrophoresis-UV grafting technique to modify PES UF membranes used for NOM removal. Journal of Membrane Science, 2006, 273, 47-57.	4.1	70
138	Evaluation of heat utilization in membrane distillation desalination system integrated with heat recovery. Desalination, 2015, 366, 80-93.	4.0	70
139	The coming of age of water channels for separation membranes: from biological to biomimetic to synthetic. Chemical Society Reviews, 2022, 51, 4537-4582.	18.7	70
140	Novel dual-layer hollow fiber membranes applied for forward osmosis process. Journal of Membrane Science, 2012, 421-422, 238-246.	4.1	69
141	Gas–liquid membrane contactors for acid gas removal: recent advances and future challenges. Current Opinion in Chemical Engineering, 2013, 2, 255-262.	3.8	69
142	Recent advances in membrane development for treating surfactant- and oil-containing feed streams via membrane distillation. Advances in Colloid and Interface Science, 2019, 273, 102022.	7.0	69
143	Analysis of the effect of turbulence promoters in hollow fiber membrane distillation modules by computational fluid dynamic (CFD) simulations. Journal of Membrane Science, 2012, 415-416, 758-769.	4.1	68
144	Preparation of PVDF/PTFE hollow fiber membranes for direct contact membrane distillation via thermally induced phase separation method. Desalination, 2018, 430, 86-97.	4.0	68

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145	Direct contact membrane distillation: An experimental and analytical investigation of the effect of membrane thickness upon transmembrane flux. Journal of Membrane Science, 2014, 470, 257-265.	4.1	67
146	Application of forward osmosis for reducing volume of produced/Process water from oil and gas operations. Desalination, 2015, 376, 1-8.	4.0	66
147	Micro-structured alumina hollow fibre membranes – Potential applications in wastewater treatment. Journal of Membrane Science, 2014, 461, 39-48.	4.1	65
148	Gas field produced/process water treatment using forward osmosis hollow fiber membrane: Membrane fouling and chemical cleaning. Desalination, 2017, 402, 143-151.	4.0	65
149	Development of low mass-transfer-resistance fluorinated TiO 2 -SiO 2 /PVDF composite hollow fiber membrane used for biogas upgrading in gas-liquid membrane contactor. Journal of Membrane Science, 2018, 552, 253-264.	4.1	65
150	Facile synthesis of "digestibleâ€, rigid-and-flexible, bio-based building block for high-performance degradable thermosetting plastics. Green Chemistry, 2020, 22, 1275-1290.	4.6	64
151	Composite hollow fiber membranes with different poly(dimethylsiloxane) intrusions into substrate for phenol removal via extractive membrane bioreactor. Journal of Membrane Science, 2016, 500, 236-244.	4.1	62
152	Methotrexate-conjugated and hyperbranched polyglycerol-grafted Fe3O4 magnetic nanoparticles for targeted anticancer effects. European Journal of Pharmaceutical Sciences, 2013, 48, 111-120.	1.9	61
153	Whey recovery using forward osmosis – Evaluating the factors limiting the flux performance. Journal of Membrane Science, 2017, 533, 179-189.	4.1	61
154	Layer-by-layer assembly based low pressure biocatalytic nanofiltration membranes for micropollutants removal. Journal of Membrane Science, 2020, 615, 118514.	4.1	61
155	Formation of high-performance 6FDA-2,6-DAT asymmetric composite hollow fiber membranes for CO2/CH4 separation. Journal of Membrane Science, 2002, 209, 309-319.	4.1	60
156	The accelerated CO2 plasticization of ultra-thin polyimide films and the effect of surface chemical cross-linking on plasticization and physical aging. Journal of Membrane Science, 2003, 225, 125-134.	4.1	60
157	Fabrication of layer-by-layer assembled FO hollow fiber membranes and their performances using low concentration draw solutions. Desalination, 2013, 308, 147-153.	4.0	60
158	Heat transfer intensification and scaling mitigation in bubbling-enhanced membrane distillation for brine concentration. Journal of Membrane Science, 2014, 470, 60-69.	4.1	59
159	Layer-by-layer assembly of nitrogen-doped graphene quantum dots monolayer decorated one-dimensional semiconductor nanoarchitectures for solar-driven water splitting. Journal of Materials Chemistry A, 2016, 4, 16383-16393.	5.2	59
160	Thin film nanocomposite hollow fiber membranes incorporated with surface functionalized HKUST-1 for highly-efficient reverses osmosis desalination process. Journal of Membrane Science, 2019, 589, 117249.	4.1	59
161	Gas separation performance of poly(4-vinylpyridine)/polyetherimide composite hollow fibers. Journal of Membrane Science, 2001, 182, 111-123.	4.1	58
162	Experimental comparison of submerged membrane distillation configurations for concentrated brine treatment. Desalination, 2017, 420, 54-62.	4.0	58

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163	Novel chemical surface modification to enhance hydrophobicity of polyamide-imide (PAI) hollow fiber membranes. Journal of Membrane Science, 2011, 380, 241-250.	4.1	57
164	Separations of binary mixtures of CO2/CH4 and CO2/N2 with mixed-matrix membranes containing Zn(pyrz)2(SiF6) metal-organic framework. Journal of Membrane Science, 2015, 495, 169-175.	4.1	57
165	Process intensification with selected membrane processes. Chemical Engineering and Processing: Process Intensification, 2015, 87, 16-25.	1.8	57
166	Engineering a superwetting thin film nanofibrous composite membrane with excellent antifouling and self-cleaning properties to separate surfactant-stabilized oil-in-water emulsions. Journal of Membrane Science, 2020, 596, 117721.	4.1	57
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168	A comprehensive understanding of co-solvent effects on interfacial polymerization: Interaction with trimesoyl chloride. Journal of Membrane Science, 2019, 583, 70-80.	4.1	56
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