

Rong Wang

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

365
papers

23,237
citations

85
h-index

136
g-index

380
ext. papers

26,590
ext. citations

8.9
avg, IF

7.6
L-index

#	Paper	IF	Citations
365	Coupled effects of internal concentration polarization and fouling on flux behavior of forward osmosis membranes during humic acid filtration. <i>Journal of Membrane Science</i> , 2010 , 354, 123-133	9.6	613
364	Recent Development of Advanced Materials with Special Wettability for Selective Oil/Water Separation. <i>Small</i> , 2016 , 12, 2186-202	11	563
363	Membrane fouling in osmotically driven membrane processes: A review. <i>Journal of Membrane Science</i> , 2016 , 499, 201-233	9.6	488
362	Characterization of novel forward osmosis hollow fiber membranes. <i>Journal of Membrane Science</i> , 2010 , 355, 158-167	9.6	472
361	Synthesis and characterization of flat-sheet thin film composite forward osmosis membranes. <i>Journal of Membrane Science</i> , 2011 , 372, 292-302	9.6	463
360	Synthetic membranes for water purification: status and future. <i>Angewandte Chemie - International Edition</i> , 2015 , 54, 3368-86	16.4	445
359	Current status and development of membranes for CO ₂ /CH ₄ separation: A review. <i>International Journal of Greenhouse Gas Control</i> , 2013 , 12, 84-107	4.2	428
358	Progress in electrospun polymeric nanofibrous membranes for water treatment: Fabrication, modification and applications. <i>Progress in Polymer Science</i> , 2018 , 77, 69-94	29.6	396
357	Fabrication of polyvinylidene fluoride (PVDF) nanofiber membranes by electro-spinning for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2013 , 425-426, 30-39	9.6	315
356	Influence of membrane wetting on CO ₂ capture in microporous hollow fiber membrane contactors. <i>Separation and Purification Technology</i> , 2005 , 46, 33-40	8.3	303
355	Thin-film composite hollow fiber membranes for pressure retarded osmosis (PRO) process with high power density. <i>Journal of Membrane Science</i> , 2012 , 389, 25-33	9.6	271
354	Engineering superhydrophobic surface on poly(vinylidene fluoride) nanofiber membranes for direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2013 , 440, 77-87	9.6	265
353	Effects of cross-linking modification on gas separation performance of Matrimid membranes. <i>Journal of Membrane Science</i> , 2003 , 225, 77-90	9.6	263
352	Chemical cross-linking modification of polyimide membranes for gas separation. <i>Journal of Membrane Science</i> , 2001 , 189, 231-239	9.6	239
351	Characteristics and potential applications of a novel forward osmosis hollow fiber membrane. <i>Desalination</i> , 2010 , 261, 365-372	10.3	237
350	Desalination by biomimetic aquaporin membranes: Review of status and prospects. <i>Desalination</i> , 2013 , 308, 34-40	10.3	233
349	Synthesis of robust and high-performance aquaporin-based biomimetic membranes by interfacial polymerization-membrane preparation and RO performance characterization. <i>Journal of Membrane Science</i> , 2012 , 423-424, 422-428	9.6	223

348	Carbon-Based Functional Materials Derived from Waste for Water Remediation and Energy Storage. <i>Advanced Materials</i> , 2017 , 29, 1605361	24	221
347	Effect of membrane structure on mass-transfer in the membrane gas-liquid contacting process using microporous PVDF hollow fibers. <i>Journal of Membrane Science</i> , 2006 , 285, 272-281	9.6	204
346	Electrospun superhydrophobic membranes with unique structures for membrane distillation. <i>ACS Applied Materials & Interfaces</i> , 2014 , 6, 16035-48	9.5	201
345	Fabrication of novel poly(amide-imide) forward osmosis hollow fiber membranes with a positively charged nanofiltration-like selective layer. <i>Journal of Membrane Science</i> , 2011 , 369, 196-205	9.6	199
344	All-Carbon Nanoarchitectures as High-Performance Separation Membranes with Superior Stability. <i>Advanced Functional Materials</i> , 2015 , 25, 7348-7359	15.6	195
343	Interfacially polymerized composite nanofiltration hollow fiber membranes for low-pressure water softening. <i>Journal of Membrane Science</i> , 2013 , 430, 129-139	9.6	194
342	Performance improvement of PVDF hollow fiber-based membrane distillation process. <i>Journal of Membrane Science</i> , 2011 , 369, 437-447	9.6	189
341	Novel membrane surface modification to enhance anti-oil fouling property for membrane distillation application. <i>Journal of Membrane Science</i> , 2013 , 447, 26-35	9.6	183
340	Tough, Adhesive, Self-Healable, and Transparent Ionically Conductive Zwitterionic Nanocomposite Hydrogels as Skin Strain Sensors. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 3506-3515	9.5	183
339	Fabrication of bioinspired composite nanofiber membranes with robust superhydrophobicity for direct contact membrane distillation. <i>Environmental Science & Technology</i> , 2014 , 48, 6335-41	10.3	181
338	Graphene oxide as effective selective barriers on a hollow fiber membrane for water treatment process. <i>Journal of Membrane Science</i> , 2015 , 474, 244-253	9.6	178
337	Characterization of permeability and sorption in Matrimid/C60 mixed matrix membranes. <i>Journal of Membrane Science</i> , 2003 , 211, 91-99	9.6	167
336	Membrane biofouling and scaling in forward osmosis membrane bioreactor. <i>Journal of Membrane Science</i> , 2012 , 403-404, 8-14	9.6	163
335	Modeling salt accumulation in osmotic membrane bioreactors: Implications for FO membrane selection and system operation. <i>Journal of Membrane Science</i> , 2011 , 366, 314-324	9.6	163
334	Separation of CO ₂ from CH ₄ by using gas-liquid membrane contacting process. <i>Journal of Membrane Science</i> , 2007 , 304, 163-172	9.6	160
333	Preparation of polyamide thin film composite forward osmosis membranes using electrospun polyvinylidene fluoride (PVDF) nanofibers as substrates. <i>Separation and Purification Technology</i> , 2013 , 118, 727-736	8.3	155
332	Harnessing Filler Materials for Enhancing Biogas Separation Membranes. <i>Chemical Reviews</i> , 2018 , 118, 8655-8769	68.1	154
331	Carbon nanomaterials for advancing separation membranes: A strategic perspective. <i>Carbon</i> , 2016 , 109, 694-710	10.4	148

330	Modeling of CO ₂ capture by three typical amine solutions in hollow fiber membrane contactors. <i>Chemical Engineering and Processing: Process Intensification</i> , 2004 , 43, 849-856	3.7	143
329	Effect of polyethylene glycol (PEG) as an additive on the fabrication of poly(vinylidene fluoride-co-hexafluoropropylene) (PVDF-HFP) asymmetric microporous hollow fiber membranes. <i>Journal of Membrane Science</i> , 2011 , 369, 329-338	9.6	139
328	Modeling and experimental study of CO ₂ absorption in a hollow fiber membrane contactor. <i>Journal of Membrane Science</i> , 2006 , 279, 301-310	9.6	136
327	Influence of monomer concentrations on the performance of polyamide-based thin film composite forward osmosis membranes. <i>Journal of Membrane Science</i> , 2011 , 381, 110-117	9.6	134
326	Fabrication of poly(vinylidene fluoride-co-hexafluoropropylene) (PVDF-HFP) asymmetric microporous hollow fiber membranes. <i>Journal of Membrane Science</i> , 2007 , 305, 215-225	9.6	133
325	Effect of additives on the fabrication of poly(vinylidene fluoride-co-hexafluoropropylene) (PVDF-HFP) asymmetric microporous hollow fiber membranes. <i>Journal of Membrane Science</i> , 2008 , 315, 195-204	9.6	133
324	Separation of CO ₂ /CH ₄ through carbon molecular sieve membranes derived from P84 polyimide. <i>Carbon</i> , 2004 , 42, 3123-3131	10.4	133
323	Effect of substrate structure on the performance of thin-film composite forward osmosis hollow fiber membranes. <i>Journal of Membrane Science</i> , 2011 , 382, 116-123	9.6	131
322	Study of integration of forward osmosis and biological process: Membrane performance under elevated salt environment. <i>Desalination</i> , 2011 , 283, 123-130	10.3	131
321	Factors affecting pore structure and performance of poly(vinylidene fluoride-co-hexafluoropropylene) asymmetric porous membrane. <i>Journal of Membrane Science</i> , 2006 , 277, 55-64	9.6	131
320	Theoretical and experimental studies of membrane wetting in the membrane gas-liquid contacting process for CO ₂ absorption. <i>Journal of Membrane Science</i> , 2008 , 308, 162-170	9.6	130
319	Morphological aspects and structure control of dual-layer asymmetric hollow fiber membranes formed by a simultaneous co-extrusion approach. <i>Journal of Membrane Science</i> , 2004 , 243, 155-175	9.6	129
318	Robust and High performance hollow fiber membranes for energy harvesting from salinity gradients by pressure retarded osmosis. <i>Journal of Membrane Science</i> , 2013 , 448, 44-54	9.6	128
317	Mixed polyamide-based composite nanofiltration hollow fiber membranes with improved low-pressure water softening capability. <i>Journal of Membrane Science</i> , 2014 , 468, 52-61	9.6	127
316	Surface modification of silicone for biomedical applications requiring long-term antibacterial, antifouling, and hemocompatible properties. <i>Langmuir</i> , 2012 , 28, 16408-22	4	127
315	Optimization of operating conditions for a continuous membrane distillation crystallization process with zero salty water discharge. <i>Journal of Membrane Science</i> , 2014 , 450, 1-11	9.6	116
314	Fabrication of high performance polyethersulfone UF hollow fiber membranes using amphiphilic Pluronic block copolymers as pore-forming additives. <i>Journal of Membrane Science</i> , 2011 , 380, 114-123	9.6	116
313	Fabrication of fluoropolyimide/polyethersulfone (PES) dual-layer asymmetric hollow fiber membranes for gas separation. <i>Journal of Membrane Science</i> , 2002 , 198, 211-223	9.6	115

312	Preparation of high performance nanofiltration (NF) membranes incorporated with aquaporin Z. <i>Journal of Membrane Science</i> , 2014 , 450, 181-188	9.6	112
311	A new integrated approach for dye removal from wastewater by polyoxometalates functionalized membranes. <i>Journal of Hazardous Materials</i> , 2016 , 301, 462-70	12.8	111
310	Carbon-sensitized and nitrogen-doped TiO ₂ for photocatalytic degradation of sulfanilamide under visible-light irradiation. <i>Water Research</i> , 2011 , 45, 5015-26	12.5	111
309	Synthesis and characterization of thin film nanocomposite forward osmosis membranes supported by silica nanoparticle incorporated nanofibrous substrate. <i>Desalination</i> , 2017 , 401, 142-150	10.3	110
308	Graphene Oxide Quantum Dots Covalently Functionalized PVDF Membrane with Significantly-Enhanced Bactericidal and Antibiofouling Performances. <i>Scientific Reports</i> , 2016 , 6, 20142	4.9	110
307	Nature gives the best solution for desalination: Aquaporin-based hollow fiber composite membrane with superior performance. <i>Journal of Membrane Science</i> , 2015 , 494, 68-77	9.6	109
306	Flexible and wearable strain sensors based on tough and self-adhesive ion conducting hydrogels. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 24-29	7.3	107
305	Factors affecting flux performance of forward osmosis systems. <i>Journal of Membrane Science</i> , 2012 , 394-395, 151-168	9.6	107
304	Inhibition of Escherichia coli and Proteus mirabilis adhesion and biofilm formation on medical grade silicone surface. <i>Biotechnology and Bioengineering</i> , 2012 , 109, 336-45	4.9	107
303	Energy efficiency evaluation and economic analyses of direct contact membrane distillation system using Aspen Plus. <i>Desalination</i> , 2011 , 283, 237-244	10.3	107
302	Crosslinked layer-by-layer polyelectrolyte nanofiltration hollow fiber membrane for low-pressure water softening with the presence of SO ₄ ²⁻ in feed water. <i>Journal of Membrane Science</i> , 2015 , 486, 169-176	9.6	105
301	Impact of DEA solutions with and without CO ₂ loading on porous polypropylene membranes intended for use as contactors. <i>Journal of Membrane Science</i> , 2004 , 229, 147-157	9.6	105
300	Chemical cross-linking modification of 6FDA-2,6-DAT hollow fiber membranes for natural gas separation. <i>Journal of Membrane Science</i> , 2003 , 216, 257-268	9.6	105
299	Sandwich-Architected Poly(lactic acid)-Graphene Composite Food Packaging Films. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 9994-10004	9.5	105
298	A high-performance and robust membrane with switchable super-wettability for oil/water separation under ultralow pressure. <i>Journal of Membrane Science</i> , 2017 , 543, 123-132	9.6	103
297	Towards temperature driven forward osmosis desalination using Semi-IPN hydrogels as reversible draw agents. <i>Water Research</i> , 2013 , 47, 3773-81	12.5	103
296	Novel designs for improving the performance of hollow fiber membrane distillation modules. <i>Journal of Membrane Science</i> , 2011 , 384, 52-62	9.6	103
295	Analysis of heat and mass transfer by CFD for performance enhancement in direct contact membrane distillation. <i>Journal of Membrane Science</i> , 2012 , 405-406, 38-47	9.6	101

294	Numerical simulation of heat and mass transfer in direct membrane distillation in a hollow fiber module with laminar flow. <i>Journal of Membrane Science</i> , 2011 , 384, 107-116	9.6	99
293	Surfactant effects on water recovery from produced water via direct-contact membrane distillation. <i>Journal of Membrane Science</i> , 2017 , 528, 126-134	9.6	97
292	Preparation of supported lipid membranes for aquaporin Z incorporation. <i>Colloids and Surfaces B: Biointerfaces</i> , 2012 , 94, 333-40	6	97
291	Performance enhancement and scaling control with gas bubbling in direct contact membrane distillation. <i>Desalination</i> , 2013 , 308, 47-55	10.3	97
290	Preparation of Superhydrophilic and Underwater Superoleophobic Nanofiber-Based Meshes from Waste Glass for Multifunctional Oil/Water Separation. <i>Small</i> , 2017 , 13, 1700391	11	95
289	Novel mpg-C3N4/TiO2 nanocomposite photocatalytic membrane reactor for sulfamethoxazole photodegradation. <i>Chemical Engineering Journal</i> , 2018 , 337, 183-192	14.7	95
288	Characterization of hollow fiber membranes in a permeator using binary gas mixtures. <i>Chemical Engineering Science</i> , 2002 , 57, 967-976	4.4	95
287	Membranes and processes for forward osmosis-based desalination: Recent advances and future prospects. <i>Desalination</i> , 2018 , 434, 81-99	10.3	92
286	Simple method of deposition of CuO nanoparticles on a cellulose paper and its antibacterial activity. <i>Chemical Engineering Journal</i> , 2015 , 262, 999-1008	14.7	88
285	Aquaporin-based biomimetic reverse osmosis membranes: Stability and long term performance. <i>Journal of Membrane Science</i> , 2016 , 508, 94-103	9.6	88
284	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. <i>Journal of Membrane Science</i> , 2012 , 394-395, 140-150	9.6	88
283	Experimental and modeling studies on Ba _{0.5} Sr _{0.5} Co _{0.8} Fe _{0.2} O ₃ (BSCF) tubular membranes for air separation. <i>Journal of Membrane Science</i> , 2004 , 243, 405-415	9.6	88
282	Membrane module design and dynamic shear-induced techniques to enhance liquid separation by hollow fiber modules: a review. <i>Desalination and Water Treatment</i> , 2013 , 51, 3604-3627		86
281	Fabrication of novel functionalized multi-walled carbon nanotube immobilized hollow fiber membranes for enhanced performance in forward osmosis process. <i>Journal of Membrane Science</i> , 2013 , 446, 244-254	9.6	85
280	Significantly enhanced water flux in forward osmosis desalination with polymer-graphene composite hydrogels as a draw agent. <i>RSC Advances</i> , 2013 , 3, 887-894	3.7	85
279	Thickness Dependence of Macrovoid Evolution in Wet Phase-Inversion Asymmetric Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2004 , 43, 1553-1556	3.9	84
278	High-performance nanocomposite membranes realized by efficient molecular sieving with CuBDC nanosheets. <i>Chemical Communications</i> , 2017 , 53, 4254-4257	5.8	82
277	High performance flat sheet forward osmosis membrane with an NF-like selective layer on a woven fabric embedded substrate. <i>Desalination</i> , 2012 , 287, 266-270	10.3	82

276	A critical review on diffusivity and the characterization of diffusivity of 6FDA/FpDA polyimide membranes for gas separation. <i>Journal of Membrane Science</i> , 2002 , 198, 259-271	9.6	81
275	Modeling double-skinned FO membranes. <i>Desalination</i> , 2011 , 283, 178-186	10.3	80
274	Synthesis and characterization of novel high-performance thin film nanocomposite (TFN) FO membranes with nanofibrous substrate reinforced by functionalized carbon nanotubes. <i>Desalination</i> , 2015 , 370, 79-86	10.3	78
273	Unraveling the cooperative synergy of zero-dimensional graphene quantum dots and metal nanocrystals enabled by layer-by-layer assembly. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 1700-1713	13	77
272	Superoleophobic surface modification for robust membrane distillation performance. <i>Journal of Membrane Science</i> , 2017 , 541, 162-173	9.6	76
271	Elucidation of stoichiometric efficiency, radical generation and transformation pathway during catalytic oxidation of sulfamethoxazole via peroxymonosulfate activation. <i>Water Research</i> , 2019 , 151, 64-74	12.5	76
270	CO ₂ switchable dual responsive polymers as draw solutes for forward osmosis desalination. <i>Chemical Communications</i> , 2013 , 49, 8377-9	5.8	75
269	Surface modification of polyvinylidene fluoride-co-hexafluoropropylene (PVDF/HFP) hollow fiber membrane for membrane gas absorption. <i>Journal of Membrane Science</i> , 2011 , 381, 183-191	9.6	75
268	Antifouling coating with controllable and sustained silver release for long-term inhibition of infection and encrustation in urinary catheters. <i>Journal of Biomedical Materials Research - Part B Applied Biomaterials</i> , 2015 , 103, 519-28	3.5	74
267	Synthesis and characterization of high-performance novel thin film nanocomposite PRO membranes with tiered nanofiber support reinforced by functionalized carbon nanotubes. <i>Journal of Membrane Science</i> , 2015 , 486, 151-160	9.6	72
266	Combined organic-inorganic fouling of forward osmosis hollow fiber membranes. <i>Water Research</i> , 2012 , 46, 6329-38	12.5	71
265	Novel method for incorporating hydrophobic silica nanoparticles on polyetherimide hollow fiber membranes for CO ₂ absorption in a gas-liquid membrane contactor. <i>Journal of Membrane Science</i> , 2014 , 452, 379-389	9.6	70
264	Fabrication of a robust high-performance FO membrane by optimizing substrate structure and incorporating aquaporin into selective layer. <i>Journal of Membrane Science</i> , 2017 , 525, 257-268	9.6	70
263	Analysis of Membrane Distillation Crystallization System for High Salinity Brine Treatment with Zero Discharge Using Aspen Flowsheet Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 13405-13413	3.9	70
262	Development of robust and superhydrophobic membranes to mitigate membrane scaling and fouling in membrane distillation. <i>Journal of Membrane Science</i> , 2020 , 601, 117962	9.6	69
261	Energy-efficient desalination by forward osmosis using responsive ionic liquid draw solutes. <i>Environmental Science: Water Research and Technology</i> , 2015 , 1, 341-347	4.2	68
260	Mass transfer study and modeling of gas-liquid membrane contacting process by multistage cascade model for CO ₂ absorption. <i>Separation and Purification Technology</i> , 2008 , 63, 15-22	8.3	68
259	A modeling investigation on optimizing the design of forward osmosis hollow fiber modules. <i>Journal of Membrane Science</i> , 2012 , 392-393, 76-87	9.6	67

258	Urea-assisted one-step synthesis of cobalt ferrite impregnated ceramic membrane for sulfamethoxazole degradation via peroxymonosulfate activation. <i>Chemical Engineering Journal</i> , 2018 , 343, 737-747	14.7	65
257	Development of a novel electrophoresis-UV grafting technique to modify PES UF membranes used for NOM removal. <i>Journal of Membrane Science</i> , 2006 , 273, 47-57	9.6	65
256	Fabrication of lab-scale hollow fiber membrane modules with high packing density. <i>Separation and Purification Technology</i> , 2004 , 40, 15-30	8.3	64
255	Development of asymmetric 6FDA-2,6 DAT hollow fiber membranes for CO ₂ /CH ₄ separation: 1. The influence of dope composition and rheology on membrane morphology and separation performance. <i>Journal of Membrane Science</i> , 2002 , 207, 227-240	9.6	64
254	Chemical Cross-Linking Modification of Polyimide/Poly(ether sulfone) Dual-Layer Hollow-Fiber Membranes for Gas Separation. <i>Industrial & Engineering Chemistry Research</i> , 2003 , 42, 1190-1195	3.9	64
253	Polyvinylidene fluoride membrane modification via oxidant-induced dopamine polymerization for sustainable direct-contact membrane distillation. <i>Journal of Membrane Science</i> , 2018 , 563, 31-42	9.6	64
252	Fabrication and characterization of forward osmosis hollow fiber membranes with antifouling NF-like selective layer. <i>Journal of Membrane Science</i> , 2012 , 394-395, 80-88	9.6	63
251	Fabrication of novel polyetherimide-fluorinated silica organic/inorganic composite hollow fiber membranes intended for membrane contactor application. <i>Journal of Membrane Science</i> , 2013 , 443, 170-180	9.6	63
250	Hierarchically Structured Janus Membrane Surfaces for Enhanced Membrane Distillation Performance. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 25524-25534	9.5	62
249	Insight into the role of amphiphilic pluronic block copolymer as pore-forming additive in PVDF membrane formation. <i>Journal of Membrane Science</i> , 2013 , 446, 492-503	9.6	62
248	Optimization of microstructured hollow fiber design for membrane distillation applications using CFD modeling. <i>Journal of Membrane Science</i> , 2012 , 421-422, 258-270	9.6	62
247	Novel dual-layer hollow fiber membranes applied for forward osmosis process. <i>Journal of Membrane Science</i> , 2012 , 421-422, 238-246	9.6	61
246	Polyamide-imide hollow fiber membranes crosslinked with amine-appended inorganic networks for application in solvent-resistant nanofiltration under low operating pressure. <i>Journal of Membrane Science</i> , 2016 , 501, 152-160	9.6	60
245	Effect of PVDF dope rheology on the structure of hollow fiber membranes used for CO ₂ capture. <i>Journal of Membrane Science</i> , 2006 , 281, 334-344	9.6	60
244	Evaluation of heat utilization in membrane distillation desalination system integrated with heat recovery. <i>Desalination</i> , 2015 , 366, 80-93	10.3	58
243	Gas-liquid membrane contactors for acid gas removal: recent advances and future challenges. <i>Current Opinion in Chemical Engineering</i> , 2013 , 2, 255-262	5.4	58
242	Investigation of shear stress effect within a spinneret on flux, separation and thermomechanical properties of hollow fiber ultrafiltration membranes. <i>Journal of Membrane Science</i> , 2000 , 175, 197-213	9.6	58
241	Seawater desalination by reverse osmosis: Current development and future challenges in membrane fabrication A review. <i>Journal of Membrane Science</i> , 2021 , 629, 119292	9.6	58

240	Surface-nucleated heterogeneous growth of zeolitic imidazolate framework A unique precursor towards catalytic ceramic membranes: Synthesis, characterization and organics degradation. <i>Chemical Engineering Journal</i> , 2018 , 353, 69-79	14.7	57
239	Design and development of layer-by-layer based low-pressure antifouling nanofiltration membrane used for water reclamation. <i>Journal of Membrane Science</i> , 2019 , 584, 309-323	9.6	56
238	Effects of Additives and Coagulant Temperature on Fabrication of High Performance PVDF/Pluronic F127 Blend Hollow Fiber Membranes via Nonsolvent Induced Phase Separation. <i>Chinese Journal of Chemical Engineering</i> , 2012 , 20, 71-79	3.2	56
237	The accelerated CO ₂ plasticization of ultra-thin polyimide films and the effect of surface chemical cross-linking on plasticization and physical aging. <i>Journal of Membrane Science</i> , 2003 , 225, 125-134	9.6	56
236	Effects of the support on the characteristics and permselectivity of thin film composite membranes. <i>Journal of Membrane Science</i> , 2019 , 580, 12-23	9.6	55
235	Removal of haloacetic acids from swimming pool water by reverse osmosis and nanofiltration. <i>Water Research</i> , 2017 , 116, 116-125	12.5	54
234	Micro-structured alumina hollow fibre membranes IPotential applications in wastewater treatment. <i>Journal of Membrane Science</i> , 2014 , 461, 39-48	9.6	54
233	Methotrexate-conjugated and hyperbranched polyglycerol-grafted Fe ₃ O ₄ magnetic nanoparticles for targeted anticancer effects. <i>European Journal of Pharmaceutical Sciences</i> , 2013 , 48, 111-20	5.1	54
232	Enhanced hollow fiber membrane performance via semi-dynamic layer-by-layer polyelectrolyte inner surface deposition for nanofiltration and forward osmosis applications. <i>Reactive and Functional Polymers</i> , 2015 , 86, 154-160	4.6	54
231	Direct contact membrane distillation: An experimental and analytical investigation of the effect of membrane thickness upon transmembrane flux. <i>Journal of Membrane Science</i> , 2014 , 470, 257-265	9.6	53
230	The roles of bacteriophages in membrane-based water and wastewater treatment processes: A review. <i>Water Research</i> , 2017 , 110, 120-132	12.5	52
229	Polymer-based membranes for solvent-resistant nanofiltration: A review. <i>Chinese Journal of Chemical Engineering</i> , 2017 , 25, 1653-1675	3.2	52
228	Analysis of the effect of turbulence promoters in hollow fiber membrane distillation modules by computational fluid dynamic (CFD) simulations. <i>Journal of Membrane Science</i> , 2012 , 415-416, 758-769	9.6	52
227	Gas separation performance of poly(4-vinylpyridine)/polyetherimide composite hollow fibers. <i>Journal of Membrane Science</i> , 2001 , 182, 111-123	9.6	52
226	Whey recovery using forward osmosis IEvaluating the factors limiting the flux performance. <i>Journal of Membrane Science</i> , 2017 , 533, 179-189	9.6	51
225	Layer-by-layer assembly of nitrogen-doped graphene quantum dots monolayer decorated one-dimensional semiconductor nanoarchitectures for solar-driven water splitting. <i>Journal of Materials Chemistry A</i> , 2016 , 4, 16383-16393	13	51
224	Effects of scaling and cleaning on the performance of forward osmosis hollow fiber membranes. <i>Journal of Membrane Science</i> , 2012 , 415-416, 101-108	9.6	51
223	Fabrication of layer-by-layer assembled FO hollow fiber membranes and their performances using low concentration draw solutions. <i>Desalination</i> , 2013 , 308, 147-153	10.3	51

222	Gas field produced/process water treatment using forward osmosis hollow fiber membrane: Membrane fouling and chemical cleaning. <i>Desalination</i> , 2017 , 402, 143-151	10.3	50
221	Application of forward osmosis for reducing volume of produced/Process water from oil and gas operations. <i>Desalination</i> , 2015 , 376, 1-8	10.3	49
220	Process intensification with selected membrane processes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015 , 87, 16-25	3.7	48
219	Gypsum scaling and membrane integrity of osmotically driven membranes: The effect of membrane materials and operating conditions. <i>Desalination</i> , 2016 , 377, 1-10	10.3	48
218	Formation of high-performance 6FDA-2,6-DAT asymmetric composite hollow fiber membranes for CO ₂ /CH ₄ separation. <i>Journal of Membrane Science</i> , 2002 , 209, 309-319	9.6	48
217	The physical and gas permeation properties of 6FDA-durene/2,6-diaminotoluene copolyimides. <i>Polymer</i> , 2001 , 42, 8847-8855	3.9	48
216	Fabrication and characterization of fabric-reinforced pressure retarded osmosis membranes for osmotic power harvesting. <i>Journal of Membrane Science</i> , 2016 , 504, 75-88	9.6	47
215	Heat transfer intensification and scaling mitigation in bubbling-enhanced membrane distillation for brine concentration. <i>Journal of Membrane Science</i> , 2014 , 470, 60-69	9.6	47
214	Effect of the rheology of poly(vinylidene fluoride-co-hexafluoropropylene) (PVDF/FP) dope solutions on the formation of microporous hollow fibers used as membrane contactors. <i>Journal of Membrane Science</i> , 2009 , 344, 112-122	9.6	47
213	Effect of Pharmaceuticals on the Performance of a Novel Osmotic Membrane Bioreactor (OMBR). <i>Separation Science and Technology</i> , 2012 , 47, 543-554	2.5	47
212	Fabrication of bead-on-string polyacrylonitrile nanofibrous air filters with superior filtration efficiency and ultralow pressure drop. <i>Separation and Purification Technology</i> , 2020 , 237, 116377	8.3	47
211	Separations of binary mixtures of CO ₂ /CH ₄ and CO ₂ /N ₂ with mixed-matrix membranes containing Zn(pyrz) ₂ (SiF ₆) metal-organic framework. <i>Journal of Membrane Science</i> , 2015 , 495, 169-175	9.6	46
210	Novel chemical surface modification to enhance hydrophobicity of polyamide-imide (PAI) hollow fiber membranes. <i>Journal of Membrane Science</i> , 2011 , 380, 241-250	9.6	46
209	Permeability of polyimides derived from non-coplanar diamines and 4,4'-(hexafluoroisopropylidene)diphthalic anhydride. <i>Polymer</i> , 2003 , 44, 4715-4721	3.9	46
208	Pore-functionalized ceramic membrane with isotropically impregnated cobalt oxide for sulfamethoxazole degradation and membrane fouling elimination: Synergistic effect between catalytic oxidation and membrane separation. <i>Applied Catalysis B: Environmental</i> , 2019 , 254, 37-46	21.8	45
207	Dual layer composite nanofiltration hollow fiber membranes for low-pressure water softening. <i>Polymer</i> , 2014 , 55, 1367-1374	3.9	45
206	Development of asymmetric 6FDA-2,6DAT hollow fiber membranes for CO ₂ /CH ₄ separation Part 2. Suppression of plasticization. <i>Journal of Membrane Science</i> , 2003 , 214, 57-69	9.6	45
205	Mixed Matrix Polytetrafluoroethylene/Polysulfone Electrospun Nanofibrous Membranes for Water Desalination by Membrane Distillation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 24275-24287	9.5	44

204	Explorations of delamination and irregular structure in poly(amide-imide)-polyethersulfone dual layer hollow fiber membranes. <i>Journal of Membrane Science</i> , 2012 , 423-424, 73-84	9.6	44
203	Effect of diamine composition on the gas transport properties in 6FDA-durene/3,3'-diaminodiphenyl sulfone copolyimides. <i>Journal of Membrane Science</i> , 2002 , 202, 165-176	9.6	44
202	Structural stability and mass transfer properties of pressure retarded osmosis (PRO) membrane under high operating pressures. <i>Journal of Membrane Science</i> , 2015 , 488, 143-153	9.6	43
201	Identification of safe and stable operation conditions for pressure retarded osmosis with high performance hollow fiber membrane. <i>Journal of Membrane Science</i> , 2016 , 503, 90-100	9.6	43
200	Comparison of NF-like and RO-like thin film composite osmotically-driven membranes—Implications for membrane selection and process optimization. <i>Journal of Membrane Science</i> , 2013 , 427, 460-471	9.6	43
199	Functional poly(vinylidene fluoride) copolymer membranes via surface-initiated thiol-ene click reactions. <i>Polymer Chemistry</i> , 2011 , 2, 1849	4.9	43
198	Gas and hydrocarbon (C2 and C3) transport properties of co-polyimides synthesized from 6FDA and 1,5-NDA (naphthalene)/Durene diamines. <i>Journal of Membrane Science</i> , 2003 , 218, 235-245	9.6	43
197	Recent advances in membrane development for treating surfactant- and oil-containing feed streams via membrane distillation. <i>Advances in Colloid and Interface Science</i> , 2019 , 273, 102022	14.3	41
196	Preparation of PVDF/PTFE hollow fiber membranes for direct contact membrane distillation via thermally induced phase separation method. <i>Desalination</i> , 2018 , 430, 86-97	10.3	41
195	Composite hollow fiber membranes with different poly(dimethylsiloxane) intrusions into substrate for phenol removal via extractive membrane bioreactor. <i>Journal of Membrane Science</i> , 2016 , 500, 236-244	9.6	41
194	A review on polymer-based membranes for gas-liquid membrane contacting processes: Current challenges and future direction. <i>Separation and Purification Technology</i> , 2019 , 229, 115791	8.3	41
193	Assessment of solar photocatalysis using Ag/BiVO ₄ at pilot solar Compound Parabolic Collector for inactivation of pathogens in well water and secondary effluents. <i>Catalysis Today</i> , 2017 , 281, 124-134	5.3	41
192	Application of Hollow Fiber Forward Osmosis Membranes for Produced and Process Water Volume Reduction: An Osmotic Concentration Process. <i>Environmental Science & Technology</i> , 2016 , 50, 6044-52	10.3	40
191	Thin film nanocomposite hollow fiber membranes incorporated with surface functionalized HKUST-1 for highly-efficient reverse osmosis desalination process. <i>Journal of Membrane Science</i> , 2019 , 589, 117249	9.6	40
190	Fabrication of aquaporin-based biomimetic membrane for seawater desalination. <i>Desalination</i> , 2019 , 467, 103-112	10.3	40
189	Pervaporation study of water and tert-butanol mixtures. <i>Journal of Applied Polymer Science</i> , 2004 , 91, 4082-4090	2.9	40
188	Integration of antifouling and bactericidal moieties for optimizing the efficacy of antibacterial coatings. <i>Journal of Colloid and Interface Science</i> , 2015 , 438, 138-148	9.3	39
187	Exploration of using thermally responsive polyionic liquid hydrogels as draw agents in forward osmosis. <i>RSC Advances</i> , 2015 , 5, 97143-97150	3.7	39

186	The effects of chemical modifications on morphology and performance of 6FDA-ODA/NDA hollow fiber membranes for CO ₂ /CH ₄ separation. <i>Journal of Membrane Science</i> , 2003 , 222, 133-147	9.6	39
185	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. <i>Journal of Membrane Science</i> , 2018 , 552, 253-264	9.6	38
184	Numerical modeling and optimization of vacuum membrane distillation module for low-cost water production. <i>Desalination</i> , 2014 , 339, 1-9	10.3	38
183	C2 and C3 hydrocarbon separations in poly(1,5-naphthalene-2,2'-bis(3,4-phthalic) hexafluoropropane) diimide (6FDA-1,5-NDA) dense membranes. <i>Journal of Membrane Science</i> , 2002 , 210, 55-64	9.6	38
182	Experimental and theoretical studies of pressure drop hysteresis in trickle bed reactors. <i>Chemical Engineering Science</i> , 1995 , 50, 2321-2328	4.4	38
181	Preparation of high-performance Al ₂ O ₃ /PES composite hollow fiber UF membranes via facile in-situ vapor induced hydrolyzation. <i>Journal of Membrane Science</i> , 2017 , 539, 65-75	9.6	37
180	Assessment of micellar solutions as draw solutions for forward osmosis. <i>Desalination</i> , 2014 , 354, 97-106	10.3	37
179	Evaluation of hollow fiber-based direct contact and vacuum membrane distillation systems using aspen process simulation. <i>Journal of Membrane Science</i> , 2014 , 464, 127-139	9.6	37
178	Experimental comparison of submerged membrane distillation configurations for concentrated brine treatment. <i>Desalination</i> , 2017 , 420, 54-62	10.3	37
177	Explorations of combined nonsolvent and thermally induced phase separation (N-TIPS) method for fabricating novel PVDF hollow fiber membranes using mixed diluents. <i>Journal of Membrane Science</i> , 2019 , 572, 210-222	9.6	37
176	A comprehensive understanding of co-solvent effects on interfacial polymerization: Interaction with trimesoyl chloride. <i>Journal of Membrane Science</i> , 2019 , 583, 70-80	9.6	36
175	Polymer-fluorinated silica composite hollow fiber membranes for the recovery of biogas dissolved in anaerobic effluent. <i>Journal of Membrane Science</i> , 2017 , 540, 146-154	9.6	36
174	Acetic acid-assisted fabrication of hierarchical flower-like BiO for photocatalytic degradation of sulfamethoxazole and rhodamine B under solar irradiation. <i>Journal of Colloid and Interface Science</i> , 2017 , 505, 489-499	9.3	35
173	Diverse morphologies of PVDF hollow fiber membranes and their performance analysis as gas/liquid contactors. <i>Journal of Applied Polymer Science</i> , 2011 , 119, 1259-1267	2.9	34
172	Pressure and temperature dependence of the gas-transport properties of dense poly[2,6-toluene-2,2'-bis(3,4-dicarboxylphenyl)hexafluoropropane diimide] membranes. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2004 , 42, 354-364	2.6	34
171	Optimization of hydrophobic modification parameters of microporous polyvinylidene fluoride hollow-fiber membrane for biogas recovery from anaerobic membrane bioreactor effluent. <i>Journal of Membrane Science</i> , 2018 , 548, 510-518	9.6	34
170	Polymersomes-based high-performance reverse osmosis membrane for desalination. <i>Journal of Membrane Science</i> , 2018 , 555, 177-184	9.6	33
169	Unique roles of aminosilane in developing anti-fouling thin film composite (TFC) membranes for pressure retarded osmosis (PRO). <i>Desalination</i> , 2016 , 389, 119-128	10.3	33

168	The effect of re-generable silver nanoparticles/multi-walled carbon nanotubes coating on the antibacterial performance of hollow fiber membrane. <i>Chemical Engineering Journal</i> , 2013 , 230, 251-259	14.7	33
167	Transport properties of CO ₂ and CH ₄ in hollow fiber membrane contactor for the recovery of biogas from anaerobic membrane bioreactor effluent. <i>Journal of Membrane Science</i> , 2017 , 541, 62-72	9.6	33
166	Fabrication of poly(amide-imide)-polyethersulfone dual layer hollow fiber membranes applied in forward osmosis by combined polyelectrolyte cross-linking and depositions. <i>Desalination</i> , 2013 , 312, 99-106	10.3	33
165	Novel single-step hydrophobic modification of polymeric hollow fiber membranes containing imide groups: Its potential for membrane contactor application. <i>Separation and Purification Technology</i> , 2012 , 101, 76-84	8.3	32
164	High-performance reverse osmosis membranes fabricated on highly porous microstructured supports. <i>Desalination</i> , 2018 , 436, 48-55	10.3	31
163	Multi-functionalization of poly(vinylidene fluoride) membranes via combined grafting from and grafting to approaches. <i>Soft Matter</i> , 2011 , 7, 11133	3.6	31
162	Gas transport properties of poly(1,5-naphthalene-2,2'-bis(3,4-phthalic) hexafluoropropane) diimide (6FDA-1,5-NDA) dense membranes. <i>Journal of Membrane Science</i> , 2002 , 199, 191-202	9.6	31
161	Thin-film composite hollow fibre membrane for low pressure organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2020 , 597, 117760	9.6	31
160	Engineering a superwetting thin film nanofibrous composite membrane with excellent antifouling and self-cleaning properties to separate surfactant-stabilized oil-in-water emulsions. <i>Journal of Membrane Science</i> , 2020 , 596, 117721	9.6	31
159	Incorporation of CoIII acetylacetonate and SNW-1 nanoparticles to tailor O ₂ /N ₂ separation performance of mixed-matrix membrane. <i>Separation and Purification Technology</i> , 2019 , 223, 133-141	8.3	30
158	Composite forward osmosis hollow fiber membranes: Integration of RO- and NF-like selective layers for enhanced organic fouling resistance. <i>Journal of Membrane Science</i> , 2015 , 492, 147-155	9.6	30
157	Functionalization of flat sheet and hollow fiber microfiltration membranes for water applications. <i>ACS Sustainable Chemistry and Engineering</i> , 2016 , 4, 907-918	8.3	30
156	Mechano-Responsive, Tough, and Antibacterial Zwitterionic Hydrogels with Controllable Drug Release for Wound Healing Applications. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 52307-52318	9.5	30
155	Biocatalytic PVDF composite hollow fiber membranes for CO ₂ removal in gas-liquid membrane contactor. <i>Journal of Membrane Science</i> , 2019 , 572, 532-544	9.6	30
154	Development of robust fluorinated TiO ₂ /PVDF composite hollow fiber membrane for CO ₂ capture in gas-liquid membrane contactor. <i>Applied Surface Science</i> , 2018 , 436, 670-681	6.7	29
153	Role of calcium ions on the removal of haloacetic acids from swimming pool water by nanofiltration: mechanisms and implications. <i>Water Research</i> , 2017 , 110, 332-341	12.5	29
152	A governing equation for physical aging of thick and thin fluoropolyimide films. <i>Journal of Applied Polymer Science</i> , 2004 , 92, 1758-1764	2.9	29
151	Gas-sorption properties of 6FDA/urene/1,4-phenylenediamine (pPDA) and 6FDA/urene/1,3-phenylenediamine (mPDA) copolyimides. <i>Journal of Applied Polymer Science</i> , 2003 , 90, 2187-2193	2.9	29

150	Effects of amidation on gas permeation properties of polyimide membranes. <i>Journal of Membrane Science</i> , 2003 , 214, 83-92	9.6	29
149	Development of highly-efficient ZIF-8@PDMS/PVDF nanofibrous composite membrane for phenol removal in aqueous-aqueous membrane extractive process. <i>Journal of Membrane Science</i> , 2018 , 568, 121-133	9.6	29
148	Pre-deposited dynamic membrane filtration - A review. <i>Water Research</i> , 2020 , 173, 115558	12.5	28
147	Enhancing pressure retarded osmosis performance with low-pressure nanofiltration pretreatment: Membrane fouling analysis and mitigation. <i>Journal of Membrane Science</i> , 2017 , 543, 114-122	9.6	28
146	A non-invasive study of flow dynamics in membrane distillation hollow fiber modules using low-field nuclear magnetic resonance imaging (MRI). <i>Journal of Membrane Science</i> , 2014 , 451, 46-54	9.6	27
145	From micro to nano: Polyamide thin film on microfiltration ceramic tubular membranes for nanofiltration. <i>Journal of Membrane Science</i> , 2019 , 587, 117161	9.6	26
144	Fabrication of PVDF hollow fiber membranes: Effects of low-concentration Pluronic and spinning conditions. <i>Journal of Membrane Science</i> , 2014 , 466, 130-141	9.6	26
143	Surface modification of PVDF hollow fiber membrane to enhance hydrophobicity using organosilanes. <i>Journal of Applied Polymer Science</i> , 2013 , 130, 610-621	2.9	26
142	Pressure-retarded osmosis with wastewater concentrate feed: Fouling process considerations. <i>Journal of Membrane Science</i> , 2017 , 542, 233-244	9.6	26
141	Influence of macromolecular additive on reinforced flat-sheet thin film composite pressure-retarded osmosis membranes. <i>Journal of Membrane Science</i> , 2016 , 511, 54-64	9.6	26
140	Hyperfast Water Transport through Biomimetic Nanochannels from Peptide-Attached (pR)-pillar[5]arene. <i>Small</i> , 2019 , 15, e1804678	11	26
139	Facile synthesis of digestible rigid-and-flexible, bio-based building block for high-performance degradable thermosetting plastics. <i>Green Chemistry</i> , 2020 , 22, 1275-1290	10	25
138	Preparation of low-pressure water softening hollow fiber membranes by polyelectrolyte deposition with two bilayers. <i>Desalination</i> , 2014 , 344, 64-70	10.3	25
137	Carboxymethyl Chitosan-Functionalized Magnetic Nanoparticles for Disruption of Biofilms of Staphylococcus aureus and Escherichia coli. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 13164-13172	3.9	25
136	Fusion behaviour of aquaporin Z incorporated proteoliposomes investigated by quartz crystal microbalance with dissipation (QCM-D). <i>Colloids and Surfaces B: Biointerfaces</i> , 2013 , 111, 446-52	6	25
135	Layer-by-layer assembly based low pressure biocatalytic nanofiltration membranes for micropollutants removal. <i>Journal of Membrane Science</i> , 2020 , 615, 118514	9.6	25
134	Catecholamine-Induced Electroless Metallization of Silver on Hybrid Nanospheres and Their Catalytic Applications. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 3116-3124	3.9	24
133	PDMS-coated porous PVDF hollow fiber membranes for efficient recovery of dissolved biomethane from anaerobic effluents. <i>Journal of Membrane Science</i> , 2019 , 584, 333-342	9.6	23

132	Design, development and evaluation of nanofibrous composite membranes with opposing membrane wetting properties for extractive membrane bioreactors. <i>Journal of Membrane Science</i> , 2018 , 551, 55-65	9.6	23
131	Effects of proteoliposome composition and draw solution types on separation performance of aquaporin-based proteoliposomes: implications for seawater desalination using aquaporin-based biomimetic membranes. <i>Environmental Science & Technology</i> , 2013 , 47, 1496-503	10.3	23
130	Salting-out effect on facilitated transport membranes for CO ₂ separation: From fluoride salt to polyoxometalates. <i>RSC Advances</i> , 2012 , 2, 9551	3.7	23
129	Determination of pore sizes and surface porosity and the effect of shear stress within a spinneret on asymmetric hollow fiber membranes. <i>Journal of Membrane Science</i> , 2001 , 188, 29-37	9.6	23
128	Super tough bilayer actuators based on multi-responsive hydrogels crosslinked by functional triblock copolymer micelle macro-crosslinkers. <i>Journal of Materials Chemistry B</i> , 2019 , 7, 2619-2625	7.3	22
127	Scalable fabrication of graphene-based laminate membranes for liquid and gas separations by crosslinking-induced gelation and doctor-blade casting. <i>Carbon</i> , 2019 , 155, 129-137	10.4	22
126	Quantitative Study on Crystallization-Induced Scaling in High-Concentration Direct-Contact Membrane Distillation. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 15656-15666	3.9	22
125	Polyacrylonitrile (PAN)-induced carbon membrane with in-situ encapsulated cobalt crystal for hybrid peroxydisulfate oxidation-filtration process: Preparation, characterization and performance evaluation. <i>Chemical Engineering Journal</i> , 2019 , 373, 425-436	14.7	21
124	Influence of membrane characteristics and operating parameters on transport properties of dissolved methane in a hollow fiber membrane contactor for biogas recovery from anaerobic effluents. <i>Journal of Membrane Science</i> , 2019 , 589, 117263	9.6	21
123	Dye removal by surfactant encapsulated polyoxometalates. <i>Journal of Hazardous Materials</i> , 2014 , 280, 428-35	12.8	21
122	A poly(vinylidene fluoride)-graft-poly(dopamine acrylamide) copolymer for surface functionalizable membranes. <i>RSC Advances</i> , 2013 , 3, 25204	3.7	21
121	Module scale-up and performance evaluation of thin film composite hollow fiber membranes for pressure retarded osmosis. <i>Journal of Membrane Science</i> , 2018 , 548, 398-407	9.6	21
120	Membrane distillation hybridized with a thermoelectric heat pump for energy-efficient water treatment and space cooling. <i>Applied Energy</i> , 2018 , 231, 1079-1088	10.7	21
119	Preparation of Polydimethylsiloxane/Polyvinylidene Fluoride Composite Membranes for Phenol Removal in Extractive Membrane Bioreactor. <i>Industrial & Engineering Chemistry Research</i> , 2017 , 56, 3436-3445	3.9	20
118	Fluorescent nanoparticles from self-assembly of Cyclodextrin-functionalized fluorene copolymers for organic molecule sensing and cell labeling. <i>Polymer Chemistry</i> , 2012 , 3, 2444	4.9	20
117	Synthesis and characterization of fluorescent perylene bisimide-containing glycopolymers for Escherichia coli conjugation and cell imaging. <i>Polymer</i> , 2011 , 52, 5764-5771	3.9	20
116	Synthesis of ZIF-8 based composite hollow fiber membrane with a dense skin layer for facilitated biogas upgrading in gas-liquid membrane contactor. <i>Journal of Membrane Science</i> , 2019 , 585, 238-252	9.6	19
115	Engineering highly effective nanofibrous membranes to demulsify surfactant-stabilized oil-in-water emulsions. <i>Journal of Membrane Science</i> , 2020 , 611, 118398	9.6	19

114	Feasibility and performance of a thin-film composite seawater reverse osmosis membrane fabricated on a highly porous microstructured support. <i>Journal of Membrane Science</i> , 2020 , 611, 118407	9.6	19
113	Restriction of in vivo infection by antifouling coating on urinary catheter with controllable and sustained silver release: a proof of concept study. <i>BMC Infectious Diseases</i> , 2018 , 18, 370	4	19
112	Silica scaling and scaling control in pressure retarded osmosis processes. <i>Journal of Membrane Science</i> , 2017 , 541, 73-84	9.6	19
111	Effects of the thermodynamics and rheology of BTDA-TDI/MDI co-polyimide (P84) dope solutions on the performance and morphology of hollow fiber UF membranes. <i>Journal of Membrane Science</i> , 2008 , 309, 196-208	9.6	19
110	Three-Dimensional-Printable Thermo/Photo-Cross-Linked Methacrylated Chitosan-Gelatin Hydrogel Composites for Tissue Engineering. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 22902-22913	9.5	19
109	Synthetische Membranen für die Wasseraufbereitung: aktueller Stand und Perspektiven. <i>Angewandte Chemie</i> , 2015 , 127, 3427-3447	3.6	18
108	Bio-ceramic hollow fiber membranes for immunoisolation and gene delivery: I: Membrane development. <i>Journal of Membrane Science</i> , 2006 , 280, 375-382	9.6	18
107	Spatial confinement of cobalt crystals in carbon nanofibers with oxygen vacancies as a high-efficiency catalyst for organics degradation. <i>Chemosphere</i> , 2020 , 245, 125407	8.4	18
106	Hybrid PAC-submerged membrane system for trace organics removal. <i>Chemical Engineering Journal</i> , 2009 , 155, 155-160	14.7	17
105	Integral hollow fiber membrane with chemical cross-linking for pressure retarded osmosis operated in the orientation of active layer facing feed solution. <i>Journal of Membrane Science</i> , 2018 , 550, 163-172	9.6	16
104	Scalable Aqueous-Based Process for Coating Polymer and Metal Substrates with Stable Quaternized Chitosan Antibacterial Coatings. <i>Industrial & Engineering Chemistry Research</i> , 2016 , 55, 9603-9613	3.9	16
103	Development of high performance nanofibrous composite membranes by optimizing polydimethylsiloxane architectures for phenol transport. <i>Journal of Membrane Science</i> , 2018 , 549, 638-648	9.6	16
102	Towards improved separation performance using porous FO membranes: The critical roles of membrane separation properties and draw solution. <i>Journal of Membrane Science</i> , 2016 , 498, 67-74	9.6	15
101	Effects of internal concentration polarization and membrane roughness on phenol removal in extractive membrane bioreactor. <i>Journal of Membrane Science</i> , 2018 , 563, 309-319	9.6	15
100	Rapid co-deposition of graphene oxide incorporated metal-phenolic network/piperazine followed by crosslinking for high flux nanofiltration membranes. <i>Journal of Membrane Science</i> , 2019 , 588, 117203	9.6	15
99	Fabrication of catalytic membrane contactors based on polyoxometalates and polyvinylidene fluoride intended for degrading phenol in wastewater under mild conditions. <i>Separation and Purification Technology</i> , 2013 , 118, 162-169	8.3	15
98	Thin film composite hollow fibre membrane for pharmaceutical concentration and solvent recovery. <i>Journal of Membrane Science</i> , 2021 , 621, 119008	9.6	15
97	Enhancing boron rejection in FO using alkaline draw solutions. <i>Water Research</i> , 2017 , 118, 20-25	12.5	14

96	A Novel Metal-Organic Framework (MOF)-Mediated Interfacial Polymerization for Direct Deposition of Polyamide Layer on Ceramic Substrates for Nanofiltration. <i>Advanced Materials Interfaces</i> , 2019 , 6, 1900132	4.6	14
95	Bifunctional Coating with Sustained Release of 4-Amide-piperidine-C12 for Long-Term Prevention of Bacterial Colonization on Silicone. <i>ACS Biomaterials Science and Engineering</i> , 2015 , 1, 405-415	5.5	14
94	Hybrid PAC-submerged membrane system for trace organics removal II: System simulation and application study. <i>Chemical Engineering Journal</i> , 2009 , 149, 42-49	14.7	14
93	Asymmetric mixed-matrix membranes incorporated with nitrogen-doped graphene nanosheets for highly selective gas separation. <i>Journal of Membrane Science</i> , 2020 , 615, 118293	9.6	14
92	Impact of intrinsic properties of foulants on membrane performance in osmotic desalination applications. <i>Separation and Purification Technology</i> , 2014 , 123, 87-95	8.3	13
91	Analysis of Salt Accumulation in a Forward Osmosis System. <i>Separation Science and Technology</i> , 2012 , 47, 1837-1848	2.5	13
90	Effects of different secondary nano-scaled roughness on the properties of omniphobic membranes for brine treatment using membrane distillation. <i>Journal of Membrane Science</i> , 2021 , 620, 118918	9.6	13
89	Synergistic pH and Temperature-Driven Actuation of Poly(NIPAM-co-DMAPMA)/Clay Nanocomposite Hydrogel Bilayers. <i>ACS Omega</i> , 2018 , 3, 17914-17921	3.9	13
88	Concentrating synthetic estrogen 17 β -ethinylestradiol using microporous polyethersulfone hollow fiber membranes: Experimental exploration and molecular simulation. <i>Chemical Engineering Journal</i> , 2017 , 314, 80-87	14.7	12
87	Membrane compaction in forward osmosis process. <i>Desalination</i> , 2019 , 468, 114067	10.3	12
86	Preparation of Polymeric Membranes 2011 , 47-100		12
85	Study on highly hydrophilic cellulose hollow fiber membrane contactors for thiol sulfur removal. <i>Journal of Membrane Science</i> , 2007 , 305, 247-256	9.6	12
84	A novel combustion route for the preparation of perovskite-type oxygen permeable materials. <i>Materials Chemistry and Physics</i> , 2007 , 102, 132-139	4.4	11
83	A STUDY OF TRICKLING-TO-PULSING FLOW TRANSITION IN TRICKLE-BED REACTORS (TBR). <i>Chemical Engineering Communications</i> , 1994 , 127, 109-123	2.2	11
82	Fast water transport through biomimetic reverse osmosis membranes embedded with peptide-attached (pR)-pillar[5]arenes water channels. <i>Journal of Membrane Science</i> , 2021 , 628, 119276	9.6	11
81	A novel thin film composite hollow fiber osmotic membrane with one-step prepared dual-layer substrate for sludge thickening. <i>Journal of Membrane Science</i> , 2019 , 575, 98-108	9.6	11
80	Understanding the interaction between biomacromolecules and their influence on forward osmosis process. <i>Desalination</i> , 2016 , 385, 12-23	10.3	10
79	Effect of air bubbling on atrazine adsorption in water by powdered activated carbons [competitive adsorption of impurities]. <i>Separation and Purification Technology</i> , 2005 , 46, 79-87	8.3	10

78	Fabrication of 6FDA-durene polyimide asymmetric hollow fibers for gas separation. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 2166-2173	2.9	10
77	Nanosizing zeolite 5A fillers in mixed-matrix carbon molecular sieve membranes to improve gas separation performance. <i>Chemical Engineering Journal Advances</i> , 2020 , 2, 100016	3.6	10
76	Impact of pilot-scale PSF substrate surface and pore structural properties on tailoring seawater reverse osmosis membrane performance. <i>Journal of Membrane Science</i> , 2021 , 633, 119395	9.6	10
75	One-Step, Large-Scale Blow Spinning to Fabricate Ultralight, Fibrous Sorbents with Ultrahigh Oil Adsorption Capacity. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 6631-6641	9.5	10
74	Electrospray-Printed Three-Tiered Composite Membranes with Enhanced Mass Transfer Coefficients for Phenol Removal in an Aqueous-Aqueous Membrane Extractive Process. <i>Environmental Science & Technology</i> , 2020 , 54, 7611-7618	10.3	9
73	One-step construction of heterostructured metal-organics@BiO with improved photoinduced charge transfer and enhanced activity in photocatalytic degradation of sulfamethoxazole under solar light irradiation. <i>Chemosphere</i> , 2018 , 205, 396-403	8.4	9
72	Reverse solute transport, microbial toxicity, membrane cleaning and flux of regenerated draw in the FO-MBR using a micellar draw solution. <i>Desalination</i> , 2016 , 391, 105-111	10.3	9
71	A biomimetic antimicrobial surface for membrane fouling control in reverse osmosis for seawater desalination. <i>Desalination</i> , 2021 , 503, 114954	10.3	9
70	Liposomes-assisted fabrication of high performance thin film composite nanofiltration membrane. <i>Journal of Membrane Science</i> , 2021 , 620, 118833	9.6	9
69	Internal membrane fouling by proteins during microfiltration. <i>Journal of Membrane Science</i> , 2021 , 637, 119589	9.6	9
68	Modification of thin film composite hollow fiber membranes for osmotic energy generation with low organic fouling tendency. <i>Desalination</i> , 2017 , 424, 131-139	10.3	8
67	Novel hollow fiber membranes with defined unit-step morphological change. <i>Journal of Membrane Science</i> , 2001 , 193, 123-128	9.6	8
66	Sol-Gel Synthesis and Characterization of SrFeCo _{0.5} O _{3.25} - γ Powder. <i>Industrial & Engineering Chemistry Research</i> , 2002 , 41, 5432-5435	3.9	8
65	Mechanistic understanding of the adsorption of natural organic matter by heated aluminum oxide particles (HAOPs) via molecular dynamics simulation. <i>Journal of Membrane Science</i> , 2020 , 598, 117651	9.6	8
64	PTFE-assisted immobilization of Pluronic F127 in PVDF hollow fiber membranes with enhanced hydrophilicity through nonsolvent-thermally induced phase separation method. <i>Journal of Membrane Science</i> , 2021 , 620, 118914	9.6	8
63	High-strength N-methyl-2-pyrrolidone-containing process wastewater treatment using sequencing batch reactor and membrane bioreactor: A feasibility study. <i>Chemosphere</i> , 2018 , 194, 534-542	8.4	7
62	Rapid removal of chloroform, carbon tetrachloride and trichloroethylene in water by aluminum-iron alloy particles. <i>Environmental Technology (United Kingdom)</i> , 2018 , 39, 2882-2890	2.6	7
61	Membrane Distillation: Now and Future 2014 , 373-424		7

60	Atrazine adsorption from aqueous solution using powdered activated carbon. Improved mass transfer by air bubbling agitation. <i>Chemical Engineering Journal</i> , 2005 ,	14.7	7
59	Maxwell-Stefan theory for macropore molecular diffusion-controlled fixed-bed adsorption. <i>Chemical Engineering Science</i> , 1999 , 54, 4089-4098	4.4	7
58	Emerging Materials to Prepare Mixed Matrix Membranes for Pollutant Removal in Water. <i>Membranes</i> , 2021 , 11,	3.8	7
57	Wetting- and fouling-resistant hollow fiber membranes for dissolved methane recovery from anaerobic wastewater treatment effluents. <i>Journal of Membrane Science</i> , 2021 , 617, 118621	9.6	7
56	Recent Progress in Mixed-Matrix Membranes for Hydrogen Separation. <i>Membranes</i> , 2021 , 11,	3.8	7
55	Effect of solvent-matrix interactions on structures and mechanical properties of micelle-crosslinked gels. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019 , 57, 473-483	2.6	6
54	Self-assembly of rare-earth Anderson polyoxometalates on the surface of imide polymeric hollow fiber membranes potentially for organic pollutant degradation. <i>Separation and Purification Technology</i> , 2015 , 151, 155-164	8.3	6
53	Influences of operating parameters and membrane characteristics on the net energy production in dense, porous, and composite hollow fiber membrane contactors for dissolved biomethane recovery. <i>Journal of Membrane Science</i> , 2020 , 610, 118301	9.6	6
52	Modular matrix design for large-scale membrane distillation system via Aspen simulations. <i>Desalination</i> , 2018 , 428, 207-217	10.3	6
51	Population shift between the open and closed states changes the water permeability of an Aquaporin Z mutant. <i>Biophysical Journal</i> , 2012 , 103, 212-8	2.9	6
50	Membrane fouling by mixtures of oppositely charged particles. <i>Journal of Membrane Science</i> , 2021 , 625, 119093	9.6	6
49	Reverse Osmosis Membrane Separation Technology 2019 , 1-45		6
48	Unraveling the role of support membrane chemistry and pore properties on the formation of thin-film composite polyamide membranes. <i>Journal of Membrane Science</i> , 2021 , 640, 119805	9.6	6
47	Understanding the effect of transverse vibration on hollow fiber membranes for submerged forward osmosis processes. <i>Journal of Membrane Science</i> , 2020 , 610, 118211	9.6	5
46	Note on the thermodynamic stability of pendular rings between solid particles. <i>Chemical Engineering Science</i> , 1994 , 49, 3519-3521	4.4	5
45	Organic solvent forward osmosis membranes for pharmaceutical concentration. <i>Journal of Membrane Science</i> , 2022 , 642, 119965	9.6	5
44	Effective separation of water-DMSO through solvent resistant membrane distillation (SR-MD). <i>Water Research</i> , 2021 , 197, 117103	12.5	5
43	Organic matter removal from a membrane bioreactor effluent for reverse osmosis fouling mitigation by microgranular adsorptive filtration system. <i>Desalination</i> , 2021 , 506, 115016	10.3	5

42	Progress of photothermal membrane distillation for decentralized desalination: A review. <i>Water Research</i> , 2021 , 201, 117299	12.5	5
41	Enhanced biodegradation of 4-aminobenzenesulfonate in membrane bioreactor by <i>Pannonibacter</i> sp. W1. <i>Water Science and Technology</i> , 2011 , 63, 2752-8	2.2	4
40	Preliminary analysis of a linear pore pattern formed on poly(vinylidene fluoride-co-hexafluoro propylene) porous membrane surfaces. <i>Journal of Membrane Science</i> , 2010 , 352, 255-261	9.6	4
39	Experimental evidence of hysteresis of pressure drop for countercurrent gas-liquid flow in a fixed bed. <i>Chemical Engineering Science</i> , 1998 , 53, 367-369	4.4	4
38	Effect of hydrolysis rates on the morphology of sol-gel derived SrFeCo _{0.50} x powder. <i>Journal of Materials Science</i> , 2004 , 39, 707-709	4.3	4
37	Bio-inspired super liquid-repellent membranes for membrane distillation: Mechanisms, fabrications and applications. <i>Advances in Colloid and Interface Science</i> , 2021 , 297, 102547	14.3	4
36	Performance enhancement of ultrafiltration membrane via simple deposition of polymer-based modifiers. <i>Journal of Water Process Engineering</i> , 2020 , 33, 101034	6.7	4
35	Influence of ionic composition on NOM size and removal by ultrafiltration. <i>Water Science and Technology: Water Supply</i> , 2004 , 4, 197-204	1.4	3
34	Composite Materials for Carbon Capture 2020 , 237-266		3
33	Use of rigid cucurbit[6]uril mediating selective water transport as a potential remedy to improve the permselectivity and durability of reverse osmosis membranes. <i>Journal of Membrane Science</i> , 2021 , 623, 119017	9.6	3
32	Molecular dynamics investigation of membrane fouling in organic solvents. <i>Journal of Membrane Science</i> , 2021 , 632, 119329	9.6	3
31	Investigation of Surfactant-Membrane Interaction Using Molecular Dynamics Simulation with Umbrella Sampling. <i>ACS ES&T Engineering</i> ,		3
30	Anti-scaling and water flux enhancing effect of alginate in membrane distillation. <i>Desalination</i> , 2021 , 514, 115155	10.3	3
29	Electrospun polyimide-based thin-film composite membranes for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2021 , 640, 119825	9.6	3
28	Assessing the potential of highly permeable reverse osmosis membranes for desalination: Specific energy and footprint analysis. <i>Desalination</i> , 2022 , 533, 115771	10.3	3
27	Reproducible Preparation of Proteopolymersomes via Sequential Polymer Film Hydration and Membrane Protein Reconstitution. <i>Langmuir</i> , 2017 , 33, 12336-12343	4	2
26	Preparation of Closed Macroporous Al ₂ O ₃ Membranes with a Three-dimensionally Ordered Structure. <i>Chemistry Letters</i> , 2008 , 37, 420-421	1.7	2
25	Molecular dynamics study on membrane fouling by oppositely charged proteins. <i>AIChE Journal</i> , 2021 , 67, e17335	3.6	2

24	Performance, fouling and cleaning of a thin film composite hollow fiber membrane during fertiliser-drawn forward osmosis process for micro-polluted water. <i>Environmental Science: Water Research and Technology</i> ,	4.2	2
23	A facile direct spray-coating of Pebax \square 1657: Towards large-scale thin-film composite membranes for efficient CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2021 , 638, 119708	9.6	2
22	Scaling-up defect-free asymmetric hollow fiber membranes to produce oxygen-enriched gas for integration into municipal solid waste gasification process. <i>Journal of Membrane Science</i> , 2021 , 640, 119787	9.6	2
21	Layer-by-layer aided Cyclodextrin nanofilm for precise organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2022 , 652, 120466	9.6	2
20	Membrane Distillation: Now and Future 2019 , 329-385		1
19	Bioinspired Membrane Engineering for Water Applications: Examples of Enhanced Membranes, Mass Transfer and Biofilm Control. <i>Current Organic Chemistry</i> , 2017 , 21,	1.7	1
18	Fabrication of a catalytic polymer composite sheet enabling visible light-driven photocatalytic disinfection of water. <i>Research on Chemical Intermediates</i> , 2016 , 42, 4827-4838	2.8	1
17	Dopamine-intercalated polyelectrolyte multilayered nanofiltration membranes: Toward high permselectivity and ion-ion selectivity. <i>Journal of Membrane Science</i> , 2022 , 648, 120337	9.6	1
16	Impact of NaOCl ageing on reinforced PVDF hollow fiber membranes used in membrane bioreactor. <i>Journal of Water Process Engineering</i> , 2021 , 44, 102408	6.7	1
15	Investigation of aqueous and organic co-solvents roles in fabricating seawater reverse osmosis membrane. <i>Journal of Membrane Science</i> , 2022 , 645, 120187	9.6	1
14	Reinforced macromolecular micelle-crosslinked hyaluronate gels induced by water/DMSO binary solvent. <i>Soft Matter</i> , 2020 , 16, 8647-8654	3.6	1
13	Assessing the potential of integrally skinned asymmetric hollow fiber membranes for addressing membrane fouling in pressure retarded osmosis process. <i>Desalination</i> , 2021 , 520, 115347	10.3	1
12	Sleeping Heart Monitoring Using Hydrogel-Textile Capacitive ECG Electrodes. <i>IEEE Sensors Journal</i> , 2022 , 1-1	4	1
11	Liposome-integrated seawater reverse osmosis membrane prepared via facile spray-assisted interfacial polymerization. <i>Journal of Membrane Science</i> , 2022 , 650, 120405	9.6	1
10	Optimization of Aquaporin Loading for Performance Enhancement of Aquaporin-Based Biomimetic Thin-Film Composite Membranes.. <i>Membranes</i> , 2021 , 12,	3.8	1
9	Dissecting the structure-compactness-performance relationship of thin-film composite polyamide membranes with different structure features. <i>Journal of Membrane Science</i> , 2022 , 654, 120553	9.6	1
8	Membrane-based air dehumidification: A comparative review on membrane contactors, separative membranes and adsorptive membranes. <i>Chinese Journal of Chemical Engineering</i> , 2022 , 41, 121-144	3.2	0
7	Influence of foulant particle shape on membrane fouling in dead-end microfiltration. <i>Journal of Membrane Science</i> , 2022 , 647, 120265	9.6	0

6	The role of iron present in water environment in degradation of polyamide membranes by free chlorine. <i>Journal of Membrane Science</i> , 2022 , 651, 120458	9.6	o
5	Molecular dynamics simulation of the competitive adsorption behavior of effluent organic matters by heated aluminum oxide particles (HAOPs). <i>Separation and Purification Technology</i> , 2022 , 292, 120961	8.3	o
4	Aquaporin-based membranes made by interfacial polymerization in hollow fibers: Visualization and role of aquaporin in water permeability. <i>Journal of Membrane Science</i> , 2022 , 654, 120551	9.6	o
3	Membranes for Osmotic Power 2013 , 1		
2	Nature Meets Technology: Forward Osmosis Membrane Technology 2011 , 21-42		
1	Simulation of Countercurrent Operation of Two-Stage Hybrid PAC-Submerged Membrane System for Trace Organics Removal. <i>Journal of Environmental Engineering, ASCE</i> , 2012 , 138, 625-631	2	