Rong Wang

List of Publications by Year in Descending Order

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	Membrane-based air dehumidification: A comparative review on membrane contactors, separative membranes and adsorptive membranes. *Chinese Journal of Chemical Engineering*, **2022**, 41, 121-144	3.2	0
364	Influence of foulant particle shape on membrane fouling in dead-end microfiltration. *Journal of Membrane Science*, **2022**, 647, 120265	9.6	0
363	Dopamine-intercalated polyelectrolyte multilayered nanofiltration membranes: Toward high permselectivity and ion-ion selectivity. *Journal of Membrane Science*, **2022**, 648, 120337	9.6	1
362	Investigation of aqueous and organic co-solvents roles in fabricating seawater reverse osmosis membrane. *Journal of Membrane Science*, **2022**, 645, 120187	9.6	1
361	Organic solvent forward osmosis membranes for pharmaceutical concentration. *Journal of Membrane Science*, **2022**, 642, 119965	9.6	5
360	Sleeping Heart Monitoring Using Hydrogel-Textile Capacitive ECG Electrodes. *IEEE Sensors Journal*, **2022**, 1-1	4	1
359	Liposome-integrated seawater reverse osmosis membrane prepared via facile spray-assisted interfacial polymerization. *Journal of Membrane Science*, **2022**, 650, 120405	9.6	1
358	Layer-by-layer aided Ecyclodextrin nanofilm for precise organic solvent nanofiltration. *Journal of Membrane Science*, **2022**, 652, 120466	9.6	2
357	The role of iron present in water environment in degradation of polyamide membranes by free chlorine. *Journal of Membrane Science*, **2022**, 651, 120458	9.6	0
356	Molecular dynamics simulation of the competitive adsorption behavior of effluent organic matters by heated aluminum oxide particles (HAOPs). *Separation and Purification Technology*, **2022**, 292, 120961	8.3	0
355	Dissecting the structure-compaction-performance relationship of thin-film composite polyamide membranes with different structure features. *Journal of Membrane Science*, **2022**, 654, 120553	9.6	1
354	Assessing the potential of highly permeable reverse osmosis membranes for desalination: Specific energy and footprint analysis. *Desalination*, **2022**, 533, 115771	10.3	3
353	Aquaporin-based membranes made by interfacial polymerization in hollow fibers: Visualization and role of aquaporin in water permeability. *Journal of Membrane Science*, **2022**, 654, 120551	9.6	0
352	Impact of NaOCl ageing on reinforced PVDF hollow fiber membranes used in membrane bioreactor. *Journal of Water Process Engineering*, **2021**, 44, 102408	6.7	1
351	Bio-inspired super liquid-repellent membranes for membrane distillation: Mechanisms, fabrications and applications. *Advances in Colloid and Interface Science*, **2021**, 297, 102547	14.3	4
350	Use of rigid cucurbit[6]uril mediating selective water transport as a potential remedy to improve the permselectivity and durability of reverse osmosis membranes. *Journal of Membrane Science*, **2021**, 623, 119017	9.6	3
349	Three-Dimensional-Printable Thermo/Photo-Cross-Linked Methacrylated Chitosan-Gelatin Hydrogel Composites for Tissue Engineering. *ACS Applied Materials & Interfaces*, **2021**, 13, 22902-22913	9.5	19

348	A biomimetic antimicrobial surface for membrane fouling control in reverse osmosis for seawater desalination. *Desalination*, **2021**, 503, 114954	10.3	9
347	Membrane fouling by mixtures of oppositely charged particles. *Journal of Membrane Science*, **2021**, 625, 119093	9.6	6
346	Molecular dynamics study on membrane fouling by oppositely charged proteins. *AICHE Journal*, **2021**, 67, e17335	3.6	2
345	Effective separation of water-DMSO through solvent resistant membrane distillation (SR-MD). *Water Research*, **2021**, 197, 117103	12.5	5
344	Organic matter removal from a membrane bioreactor effluent for reverse osmosis fouling mitigation by microgranular adsorptive filtration system. *Desalination*, **2021**, 506, 115016	10.3	5
343	Fast water transport through biomimetic reverse osmosis membranes embedded with peptide-attached (pR)-pillar[5]arenes water channels. *Journal of Membrane Science*, **2021**, 628, 119276	9.6	11
342	Seawater desalination by reverse osmosis: Current development and future challenges in membrane fabrication – A review. *Journal of Membrane Science*, **2021**, 629, 119292	9.6	58
341	Emerging Materials to Prepare Mixed Matrix Membranes for Pollutant Removal in Water. *Membranes*, **2021**, 11,	3.8	7
340	Wetting- and fouling-resistant hollow fiber membranes for dissolved methane recovery from anaerobic wastewater treatment effluents. *Journal of Membrane Science*, **2021**, 617, 118621	9.6	7
339	Liposomes-assisted fabrication of high performance thin film composite nanofiltration membrane. *Journal of Membrane Science*, **2021**, 620, 118833	9.6	9
338	Effects of different secondary nano-scaled roughness on the properties of omniphobic membranes for brine treatment using membrane distillation. *Journal of Membrane Science*, **2021**, 620, 118918	9.6	13
337	PTFE-assisted immobilization of Pluronic F127 in PVDF hollow fiber membranes with enhanced hydrophilicity through nonsolvent-thermally induced phase separation method. *Journal of Membrane Science*, **2021**, 620, 118914	9.6	8
336	Thin film composite hollow fibre membrane for pharmaceutical concentration and solvent recovery. *Journal of Membrane Science*, **2021**, 621, 119008	9.6	15
335	Molecular dynamics investigation of membrane fouling in organic solvents. *Journal of Membrane Science*, **2021**, 632, 119329	9.6	3
334	Recent Progress in Mixed-Matrix Membranes for Hydrogen Separation. *Membranes*, **2021**, 11,	3.8	7
333	Progress of photothermal membrane distillation for decentralized desalination: A review. *Water Research*, **2021**, 201, 117299	12.5	5
332	Impact of pilot-scale PSF substrate surface and pore structural properties on tailoring seawater reverse osmosis membrane performance. *Journal of Membrane Science*, **2021**, 633, 119395	9.6	10
331	Anti-scaling and water flux enhancing effect of alginate in membrane distillation. *Desalination*, **2021**, 514, 115155	10.3	3

330	Internal membrane fouling by proteins during microfiltration. *Journal of Membrane Science*, **2021**, 637, 119589	9.6	9
329	A facile direct spray-coating of Pebax 1657: Towards large-scale thin-film composite membranes for efficient CO2/N2 separation. *Journal of Membrane Science*, **2021**, 638, 119708	9.6	2
328	Unraveling the role of support membrane chemistry and pore properties on the formation of thin-film composite polyamide membranes. *Journal of Membrane Science*, **2021**, 640, 119805	9.6	6
327	Scaling-up defect-free asymmetric hollow fiber membranes to produce oxygen-enriched gas for integration into municipal solid waste gasification process. *Journal of Membrane Science*, **2021**, 640, 119787	9.6	2
326	Electrospun polyimide-based thin-film composite membranes for organic solvent nanofiltration. *Journal of Membrane Science*, **2021**, 640, 119825	9.6	3
325	Assessing the potential of integrally skinned asymmetric hollow fiber membranes for addressing membrane fouling in pressure retarded osmosis process. *Desalination*, **2021**, 520, 115347	10.3	1
324	One-Step, Large-Scale Blow Spinning to Fabricate Ultralight, Fibrous Sorbents with Ultrahigh Oil Adsorption Capacity. *ACS Applied Materials & Interfaces*, **2021**, 13, 6631-6641	9.5	10
323	Optimization of Aquaporin Loading for Performance Enhancement of Aquaporin-Based Biomimetic Thin-Film Composite Membranes.. *Membranes*, **2021**, 12,	3.8	1
322	Understanding the effect of transverse vibration on hollow fiber membranes for submerged forward osmosis processes. *Journal of Membrane Science*, **2020**, 610, 118211	9.6	5
321	Electrospray-Printed Three-Tiered Composite Membranes with Enhanced Mass Transfer Coefficients for Phenol Removal in an Aqueous-Aqueous Membrane Extractive Process. *Environmental Science & Technology*, **2020**, 54, 7611-7618	10.3	9
320	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. *Journal of Membrane Science*, **2020**, 610, 118301	9.6	6
319	Engineering highly effective nanofibrous membranes to demulsify surfactant-stabilized oil-in-water emulsions. *Journal of Membrane Science*, **2020**, 611, 118398	9.6	19
318	Feasibility and performance of a thin-film composite seawater reverse osmosis membrane fabricated on a highly porous microstructured support. *Journal of Membrane Science*, **2020**, 611, 118407	9.6	19
317	Development of robust and superhydrophobic membranes to mitigate membrane scaling and fouling in membrane distillation. *Journal of Membrane Science*, **2020**, 601, 117962	9.6	69
316	Facile synthesis of digestible, rigid-and-flexible, bio-based building block for high-performance degradable thermosetting plastics. *Green Chemistry*, **2020**, 22, 1275-1290	10	25
315	Pre-deposited dynamic membrane filtration - A review. *Water Research*, **2020**, 173, 115558	12.5	28
314	Asymmetric mixed-matrix membranes incorporated with nitrogen-doped graphene nanosheets for highly selective gas separation. *Journal of Membrane Science*, **2020**, 615, 118293	9.6	14
313	Thin-film composite hollow fibre membrane for low pressure organic solvent nanofiltration. *Journal of Membrane Science*, **2020**, 597, 117760	9.6	31

312	Spatial confinement of cobalt crystals in carbon nanofibers with oxygen vacancies as a high-efficiency catalyst for organics degradation. *Chemosphere*, **2020**, 245, 125407	8.4	18
311	Mechanistic understanding of the adsorption of natural organic matter by heated aluminum oxide particles (HAOPs) via molecular dynamics simulation. *Journal of Membrane Science*, **2020**, 598, 117651	9.6	8
310	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	9.6	31
309	Composite Materials for Carbon Capture **2020**, 237-266		3
308	Fabrication of bead-on-string polyacrylonitrile nanofibrous air filters with superior filtration efficiency and ultralow pressure drop. *Separation and Purification Technology*, **2020**, 237, 116377	8.3	47
307	Performance enhancement of ultrafiltration membrane via simple deposition of polymer-based modifiers. *Journal of Water Process Engineering*, **2020**, 33, 101034	6.7	4
306	Nanosizing zeolite 5A fillers in mixed-matrix carbon molecular sieve membranes to improve gas separation performance. *Chemical Engineering Journal Advances*, **2020**, 2, 100016	3.6	10
305	Mechano-Responsive, Tough, and Antibacterial Zwitterionic Hydrogels with Controllable Drug Release for Wound Healing Applications. *ACS Applied Materials & Interfaces*, **2020**, 12, 52307-52318	9.5	30
304	Layer-by-layer assembly based low pressure biocatalytic nanofiltration membranes for micropollutants removal. *Journal of Membrane Science*, **2020**, 615, 118514	9.6	25
303	Reinforced macromolecular micelle-crosslinked hyaluronate gels induced by water/DMSO binary solvent. *Soft Matter*, **2020**, 16, 8647-8654	3.6	1
302	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	14.3	41
301	Flexible and wearable strain sensors based on tough and self-adhesive ion conducting hydrogels. *Journal of Materials Chemistry B*, **2019**, 7, 24-29	7.3	107
300	Synthesis of ZIF-8 based composite hollow fiber membrane with a dense skin layer for facilitated biogas upgrading in gas-liquid membrane contactor. *Journal of Membrane Science*, **2019**, 585, 238-252	9.6	19
299	From micro to nano: Polyamide thin film on microfiltration ceramic tubular membranes for nanofiltration. *Journal of Membrane Science*, **2019**, 587, 117161	9.6	26
298	Polyacrylonitrile (PAN)-induced carbon membrane with in-situ encapsulated cobalt crystal for hybrid peroxymonosulfate oxidation-filtration process: Preparation, characterization and performance evaluation. *Chemical Engineering Journal*, **2019**, 373, 425-436	14.7	21
297	PDMS-coated porous PVDF hollow fiber membranes for efficient recovery of dissolved biomethane from anaerobic effluents. *Journal of Membrane Science*, **2019**, 584, 333-342	9.6	23
296	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	9.6	56
295	Incorporation of CoII acetylacetonate and SNW-1 nanoparticles to tailor O2/N2 separation performance of mixed-matrix membrane. *Separation and Purification Technology*, **2019**, 223, 133-141	8.3	30

294	Membrane Distillation: Now and Future **2019**, 329-385		1
293	A comprehensive understanding of co-solvent effects on interfacial polymerization: Interaction with trimesoyl chloride. *Journal of Membrane Science*, **2019**, 583, 70-80	9.6	36
292	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	21.8	45
291	Super tough bilayer actuators based on multi-responsive hydrogels crosslinked by functional triblock copolymer micelle macro-crosslinkers. *Journal of Materials Chemistry B*, **2019**, 7, 2619-2625	7.3	22
290	Effects of the support on the characteristics and permselectivity of thin film composite membranes. *Journal of Membrane Science*, **2019**, 580, 12-23	9.6	55
289	A Novel Metal□Organic Framework (MOF)□Mediated Interfacial Polymerization for Direct Deposition of Polyamide Layer on Ceramic Substrates for Nanofiltration. *Advanced Materials Interfaces*, **2019**, 6, 1900132	4.6	14
288	Effect of solvent□matrix interactions on structures and mechanical properties of micelle-crosslinked gels. *Journal of Polymer Science, Part B: Polymer Physics*, **2019**, 57, 473-483	2.6	6
287	Scalable fabrication of graphene-based laminate membranes for liquid and gas separations by crosslinking-induced gelation and doctor-blade casting. *Carbon*, **2019**, 155, 129-137	10.4	22
286	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. *Journal of Membrane Science*, **2019**, 589, 117263	9.6	21
285	Membrane compaction in forward osmosis process. *Desalination*, **2019**, 468, 114067	10.3	12
284	Rapid co-deposition of graphene oxide incorporated metal-phenolic network/piperazine followed by crosslinking for high flux nanofiltration membranes. *Journal of Membrane Science*, **2019**, 588, 117203	9.6	15
283	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	9.6	40
282	A review on polymer-based membranes for gas-liquid membrane contacting processes: Current challenges and future direction. *Separation and Purification Technology*, **2019**, 229, 115791	8.3	41
281	Hierarchically Structured Janus Membrane Surfaces for Enhanced Membrane Distillation Performance. *ACS Applied Materials & Interfaces*, **2019**, 11, 25524-25534	9.5	62
280	Fabrication of aquaporin-based biomimetic membrane for seawater desalination. *Desalination*, **2019**, 467, 103-112	10.3	40
279	Reverse Osmosis Membrane Separation Technology **2019**, 1-45		6
278	Elucidation of stoichiometric efficiency, radical generation and transformation pathway during catalytic oxidation of sulfamethoxazole via peroxymonosulfate activation. *Water Research*, **2019**, 151, 64-74	12.5	76
277	Tough, Adhesive, Self-Healable, and Transparent Ionically Conductive Zwitterionic Nanocomposite Hydrogels as Skin Strain Sensors. *ACS Applied Materials & Interfaces*, **2019**, 11, 3506-3515	9.5	183

276	Explorations of combined nonsolvent and thermally induced phase separation (N-TIPS) method for fabricating novel PVDF hollow fiber membranes using mixed diluents. *Journal of Membrane Science*, **2019**, 572, 210-222	9.6	37
275	Biocatalytic PVDF composite hollow fiber membranes for CO2 removal in gas-liquid membrane contactor. *Journal of Membrane Science*, **2019**, 572, 532-544	9.6	30
274	A novel thin film composite hollow fiber osmotic membrane with one-step prepared dual-layer substrate for sludge thickening. *Journal of Membrane Science*, **2019**, 575, 98-108	9.6	11
273	Hyperfast Water Transport through Biomimetic Nanochannels from Peptide-Attached (pR)-pillar[5]arene. *Small*, **2019**, 15, e1804678	11	26
272	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. *Chemosphere*, **2018**, 205, 396-403	8.4	9
271	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	9.6	38
270	High-performance reverse osmosis membranes fabricated on highly porous microstructured supports. *Desalination*, **2018**, 436, 48-55	10.3	31
269	Preparation of PVDF/PTFE hollow fiber membranes for direct contact membrane distillation via thermally induced phase separation method. *Desalination*, **2018**, 430, 86-97	10.3	41
268	Design, development and evaluation of nanofibrous composite membranes with opposing membrane wetting properties for extractive membrane bioreactors. *Journal of Membrane Science*, **2018**, 551, 55-65	9.6	23
267	Development of robust fluorinated TiO2/PVDF composite hollow fiber membrane for CO2 capture in gas-liquid membrane contactor. *Applied Surface Science*, **2018**, 436, 670-681	6.7	29
266	Modular matrix design for large-scale membrane distillation system via Aspen simulations. *Desalination*, **2018**, 428, 207-217	10.3	6
265	Integral hollow fiber membrane with chemical cross-linking for pressure retarded osmosis operated in the orientation of active layer facing feed solution. *Journal of Membrane Science*, **2018**, 550, 163-172	9.6	16
264	High-strength N-methyl-2-pyrrolidone-containing process wastewater treatment using sequencing batch reactor and membrane bioreactor: A feasibility study. *Chemosphere*, **2018**, 194, 534-542	8.4	7
263	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	13	77
262	Novel mpg-C3N4/TiO2 nanocomposite photocatalytic membrane reactor for sulfamethoxazole photodegradation. *Chemical Engineering Journal*, **2018**, 337, 183-192	14.7	95
261	Polymersomes-based high-performance reverse osmosis membrane for desalination. *Journal of Membrane Science*, **2018**, 555, 177-184	9.6	33
260	Urea-assisted one-step synthesis of cobalt ferrite impregnated ceramic membrane for sulfamethoxazole degradation via peroxymonosulfate activation. *Chemical Engineering Journal*, **2018**, 343, 737-747	14.7	65
259	Progress in electrospun polymeric nanofibrous membranes for water treatment: Fabrication, modification and applications. *Progress in Polymer Science*, **2018**, 77, 69-94	29.6	396

258	Rapid removal of chloroform, carbon tetrachloride and trichloroethylene in water by aluminum-iron alloy particles. *Environmental Technology (United Kingdom)*, **2018**, 39, 2882-2890	2.6	7
257	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	14.7	57
256	Harnessing Filler Materials for Enhancing Biogas Separation Membranes. *Chemical Reviews*, **2018**, 118, 8655-8769	68.1	154
255	Restriction of in vivo infection by antifouling coating on urinary catheter with controllable and sustained silver release: a proof of concept study. *BMC Infectious Diseases*, **2018**, 18, 370	4	19
254	Effects of internal concentration polarization and membrane roughness on phenol removal in extractive membrane bioreactor. *Journal of Membrane Science*, **2018**, 563, 309-319	9.6	15
253	Mixed Matrix Polytetrafluoroethylene/Polysulfone Electrospun Nanofibrous Membranes for Water Desalination by Membrane Distillation. *ACS Applied Materials & Interfaces*, **2018**, 10, 24275-24287	9.5	44
252	Membranes and processes for forward osmosis-based desalination: Recent advances and future prospects. *Desalination*, **2018**, 434, 81-99	10.3	92
251	Optimization of hydrophobic modification parameters of microporous polyvinylidene fluoride hollow-fiber membrane for biogas recovery from anaerobic membrane bioreactor effluent. *Journal of Membrane Science*, **2018**, 548, 510-518	9.6	34
250	Module scale-up and performance evaluation of thin film composite hollow fiber membranes for pressure retarded osmosis. *Journal of Membrane Science*, **2018**, 548, 398-407	9.6	21
249	Development of high performance nanofibrous composite membranes by optimizing polydimethylsiloxane architectures for phenol transport. *Journal of Membrane Science*, **2018**, 549, 638-648	9.6	16
248	Synergistic pH and Temperature-Driven Actuation of Poly(NIPAM-co-DMAPMA)/Clay Nanocomposite Hydrogel Bilayers. *ACS Omega*, **2018**, 3, 17914-17921	3.9	13
247	Development of highly-efficient ZIF-8@PDMS/PVDF nanofibrous composite membrane for phenol removal in aqueous-aqueous membrane extractive process. *Journal of Membrane Science*, **2018**, 568, 121-133	9.6	29
246	Membrane distillation hybridized with a thermoelectric heat pump for energy-efficient water treatment and space cooling. *Applied Energy*, **2018**, 231, 1079-1088	10.7	21
245	Polyvinylidene fluoride membrane modification via oxidant-induced dopamine polymerization for sustainable direct-contact membrane distillation. *Journal of Membrane Science*, **2018**, 563, 31-42	9.6	64
244	Synthesis and characterization of thin film nanocomposite forward osmosis membranes supported by silica nanoparticle incorporated nanofibrous substrate. *Desalination*, **2017**, 401, 142-150	10.3	110
243	Carbon-Based Functional Materials Derived from Waste for Water Remediation and Energy Storage. *Advanced Materials*, **2017**, 29, 1605361	24	221
242	Preparation of Polydimethylsiloxane□Polyvinylidene Fluoride Composite Membranes for Phenol Removal in Extractive Membrane Bioreactor. *Industrial & Engineering Chemistry Research*, **2017**, 56, 3436-3445	3.9	20
241	Surfactant effects on water recovery from produced water via direct-contact membrane distillation. *Journal of Membrane Science*, **2017**, 528, 126-134	9.6	97

240	Enhancing boron rejection in FO using alkaline draw solutions. *Water Research*, **2017**, 118, 20-25	12.5	14
239	Acetic acid-assisted fabrication of hierarchical flower-like BiO for photocatalytic degradation of sulfamethoxazole and rhodamine B under solar irradiation. *Journal of Colloid and Interface Science*, **2017**, 505, 489-499	9.3	35
238	Preparation of high-performance Al 2 O 3 /PES composite hollow fiber UF membranes via facile in-situ vapor induced hydrolyzation. *Journal of Membrane Science*, **2017**, 539, 65-75	9.6	37
237	High-performance nanocomposite membranes realized by efficient molecular sieving with CuBDC nanosheets. *Chemical Communications*, **2017**, 53, 4254-4257	5.8	82
236	Whey recovery using forward osmosis Evaluating the factors limiting the flux performance. *Journal of Membrane Science*, **2017**, 533, 179-189	9.6	51
235	Removal of haloacetic acids from swimming pool water by reverse osmosis and nanofiltration. *Water Research*, **2017**, 116, 116-125	12.5	54
234	Preparation of Superhydrophilic and Underwater Superoleophobic Nanofiber-Based Meshes from Waste Glass for Multifunctional Oil/Water Separation. *Small*, **2017**, 13, 1700391	11	95
233	Concentrating synthetic estrogen 17 ethinylestradiol using microporous polyethersulfone hollow fiber membranes: Experimental exploration and molecular simulation. *Chemical Engineering Journal* , **2017**, 314, 80-87	14.7	12
232	The roles of bacteriophages in membrane-based water and wastewater treatment processes: A review. *Water Research*, **2017**, 110, 120-132	12.5	52
231	Reproducible Preparation of Proteopolymersomes via Sequential Polymer Film Hydration and Membrane Protein Reconstitution. *Langmuir*, **2017**, 33, 12336-12343	4	2
230	Modification of thin film composite hollow fiber membranes for osmotic energy generation with low organic fouling tendency. *Desalination*, **2017**, 424, 131-139	10.3	8
229	Bioinspired Membrane Engineering for Water Applications: Examples of Enhanced Membranes, Mass Transfer and Biofilm Control. *Current Organic Chemistry*, **2017**, 21,	1.7	1
228	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	9.6	103
227	Enhancing pressure retarded osmosis performance with low-pressure nanofiltration pretreatment: Membrane fouling analysis and mitigation. *Journal of Membrane Science*, **2017**, 543, 114-122	9.6	28
226	Pressure-retarded osmosis with wastewater concentrate feed: Fouling process considerations. *Journal of Membrane Science*, **2017**, 542, 233-244	9.6	26
225	Superoleophobic surface modification for robust membrane distillation performance. *Journal of Membrane Science*, **2017**, 541, 162-173	9.6	76
224	Polymer-based membranes for solvent-resistant nanofiltration: A review. *Chinese Journal of Chemical Engineering*, **2017**, 25, 1653-1675	3.2	52
223	Experimental comparison of submerged membrane distillation configurations for concentrated brine treatment. *Desalination*, **2017**, 420, 54-62	10.3	37

222	Polymer-fluorinated silica composite hollow fiber membranes for the recovery of biogas dissolved in anaerobic effluent. *Journal of Membrane Science*, **2017**, 540, 146-154	9.6	36
221	Transport properties of CO2 and CH4 in hollow fiber membrane contactor for the recovery of biogas from anaerobic membrane bioreactor effluent. *Journal of Membrane Science*, **2017**, 541, 62-72	9.6	33
220	Silica scaling and scaling control in pressure retarded osmosis processes. *Journal of Membrane Science*, **2017**, 541, 73-84	9.6	19
219	Gas field produced/process water treatment using forward osmosis hollow fiber membrane: Membrane fouling and chemical cleaning. *Desalination*, **2017**, 402, 143-151	10.3	50
218	Assessment of solar photocatalysis using Ag/BiVO 4 at pilot solar Compound Parabolic Collector for inactivation of pathogens in well water and secondary effluents. *Catalysis Today*, **2017**, 281, 124-134	5.3	41
217	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	9.6	70
216	Role of calcium ions on the removal of haloacetic acids from swimming pool water by nanofiltration: mechanisms and implications. *Water Research*, **2017**, 110, 332-341	12.5	29
215	Carbon nanomaterials for advancing separation membranes: A strategic perspective. *Carbon*, **2016**, 109, 694-710	10.4	148
214	Scalable Aqueous-Based Process for Coating Polymer and Metal Substrates with Stable Quaternized Chitosan Antibacterial Coatings. *Industrial & Engineering Chemistry Research*, **2016**, 55, 9603-9613	3.9	16
213	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	13	51
212	Graphene Oxide Quantum Dots Covalently Functionalized PVDF Membrane with Significantly-Enhanced Bactericidal and Antibiofouling Performances. *Scientific Reports*, **2016**, 6, 20142	4.9	110
211	Reverse solute transport, microbial toxicity, membrane cleaning and flux of regenerated draw in the FO-MBR using a micellar draw solution. *Desalination*, **2016**, 391, 105-111	10.3	9
210	Application of Hollow Fiber Forward Osmosis Membranes for Produced and Process Water Volume Reduction: An Osmotic Concentration Process. *Environmental Science & Technology*, **2016**, 50, 6044-52	10.3	40
209	Functionalization of flat sheet and hollow fiber microfiltration membranes for water applications. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 907-918	8.3	30
208	Unique roles of aminosilane in developing anti-fouling thin film composite (TFC) membranes for pressure retarded osmosis (PRO). *Desalination*, **2016**, 389, 119-128	10.3	33
207	Understanding the interaction between biomacromolecules and their influence on forward osmosis process. *Desalination*, **2016**, 385, 12-23	10.3	10
206	Fabrication and characterization of fabric-reinforced pressure retarded osmosis membranes for osmotic power harvesting. *Journal of Membrane Science*, **2016**, 504, 75-88	9.6	47
205	Aquaporin-based biomimetic reverse osmosis membranes: Stability and long term performance. *Journal of Membrane Science*, **2016**, 508, 94-103	9.6	88

204	Identification of safe and stable operation conditions for pressure retarded osmosis with high performance hollow fiber membrane. *Journal of Membrane Science*, **2016**, 503, 90-100	9.6	43
203	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	9.6	41
202	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	9.6	60
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