

Hideto Matsuyama

List of Publications by Year in Descending Order

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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.

490 papers	12,723 citations	58 h-index	81 g-index
507 ext. papers	14,636 ext. citations	6.3 avg, IF	6.88 L-index

#	Paper	IF	Citations
490	The underlying mechanism insights into support polydopamine decoration toward ultrathin polyamide membranes for high-performance reverse osmosis. <i>Journal of Membrane Science</i> , 2022 , 646, 120269	9.6	2
489	Ag-based nanocapsule-regulated interfacial polymerization Enables synchronous nanostructure towards high-performance nanofiltration membrane for sustainable water remediation. <i>Journal of Membrane Science</i> , 2022 , 645, 120196	9.6	3
488	Removal of heat-stable salts from lean amine solution using bipolar membrane electrodialysis. <i>Journal of Membrane Science</i> , 2022 , 645, 120213	9.6	2
487	Inkjet printed polyelectrolyte multilayer membrane using a polyketone support for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2022 , 642, 119943	9.6	2
486	Novel Tough Ion-Gel-Based CO ₂ Separation Membrane with Interpenetrating Polymer Network Composed of Semicrystalline and Cross-Linkable Polymers. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 4648-4658	3.9	1
485	A Review of Titanium Dioxide (TiO ₂)-Based Photocatalyst for Oilfield-Produced Water Treatment.. <i>Membranes</i> , 2022 , 12,	3.8	9
484	Surface modification of FO membrane for improving ammoniacal nitrogen (NH ₄ ⁺ -N) rejection: Investigating the factors influencing NH ₄ ⁺ -N rejection. <i>Journal of Membrane Science</i> , 2022 , 650, 120429	9.6	0
483	Mechanistic insights into the degradation of monovalent selective ion exchange membrane towards long-term application of real salt lake brines. <i>Journal of Membrane Science</i> , 2022 , 652, 120446	9.6	1
482	Development of cellulose triacetate asymmetric hollow fiber membranes with highly enhanced compaction resistance for osmotically assisted reverse osmosis operation applicable to brine concentration. <i>Journal of Membrane Science</i> , 2022 , 653, 120508	9.6	2
481	A novel method to immobilize zwitterionic copolymers onto PVDF hollow fiber membrane surface to obtain antifouling membranes. <i>Journal of Membrane Science</i> , 2022 , 120592	9.6	1
480	CFD Model Development and Experimental Measurements for Ammonia-Water Separation Using a Vacuum Membrane Distillation Module. <i>Industrial & Engineering Chemistry Research</i> , 2022 , 61, 7381-7396	3.9	0
479	A zwitterionic copolymer-interlayered ultrathin nanofilm with ridge-shaped structure for ultrapermeable nanofiltration. <i>Journal of Membrane Science</i> , 2022 , 657, 120679	9.6	0
478	Asymmetric superwetting Janus structure for fouling- and scaling-resistant membrane distillation. <i>Journal of Membrane Science</i> , 2022 , 657, 120697	9.6	1
477	Effective Parameters on Fabrication and Modification of Braid Hollow Fiber Membranes: A Review. <i>Membranes</i> , 2021 , 11,	3.8	2
476	Ultrafiltration of β -lactalbumin Protein: Acquaintance of the Filtration Performance by Membrane Structure and Surface Alteration. <i>Polymers</i> , 2021 , 13,	4.5	1
475	Nanostructural Manipulation of Polyphenol Coatings for Superwetting Membrane Surfaces. <i>ACS Sustainable Chemistry and Engineering</i> , 2021 , 9, 14525-14536	8.3	1
474	A high ZIF-8 loading PVA mixed matrix membrane on alumina hollow fiber with enhanced ethanol dehydration. <i>Journal of Membrane Science</i> , 2021 , 621, 118935	9.6	5

473	HNB3O8 Nanosheet/Graphene Oxide Composite Membranes for Molecular Separation. <i>ACS Applied Nano Materials</i> , 2021 , 4, 3455-3466	5.6	8
472	Effect of the Characteristic Properties of Membrane on Long-Term Stability in the Vacuum Membrane Distillation Process. <i>Membranes</i> , 2021 , 11,	3.8	5
471	Fundamental Investigation of the Rate-Determining Step of CO ₂ Permeation through Ion Gel Membranes Containing Amino-Acid Ionic Liquid as the CO ₂ Carrier. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 7397-7405	3.9	2
470	Chemically Converted Graphene Nanosheets for the Construction of Ion-Exclusion Nanochannel Membranes. <i>Nano Letters</i> , 2021 , 21, 3495-3502	11.5	12
469	Facile development of comprehensively fouling-resistant reduced polyketone-based thin film composite forward osmosis membrane for treatment of oily wastewater. <i>Journal of Membrane Science</i> , 2021 , 626, 119185	9.6	13
468	Simulation of Thermoresponsive Draw Solute-Driven Forward Osmosis for Enhanced Pure Water Production in Seawater Desalination. <i>Industrial & Engineering Chemistry Research</i> , 2021 , 60, 9548-9559	3.9	1
467	Molecular dynamics simulation for investigating and assessing reaction conditions between carboxylated polyethersulfone and polyethyleneimine. <i>Journal of Applied Polymer Science</i> , 2021 , 138, 51304	2.9	
466	AF2400/polyketone composite organic solvent reverse osmosis membrane for organic liquid separation. <i>Journal of Membrane Science</i> , 2021 , 628, 119270	9.6	3
465	Enhancing the antifouling property of polymeric membrane via surface charge regulation. <i>Journal of Colloid and Interface Science</i> , 2021 , 593, 315-322	9.3	4
464	Recovery of Valuable Solutes from Organic Solvent/Water Mixtures via Direct Contact Membrane Distillation (DCMD) as a Non-Heated Process. <i>Membranes</i> , 2021 , 11,	3.8	2
463	Single-step preparation of nanocomposite polyamide 6 hollow fiber membrane with integrally skinned asymmetric structure for organic solvent nanofiltration. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 620, 126538	5.1	6
462	Effect of graphene oxide quantum dots on the interfacial polymerization of a thin-film nanocomposite forward osmosis membrane: An experimental and molecular dynamics study. <i>Journal of Membrane Science</i> , 2021 , 630, 119309	9.6	2
461	Controlling the inner surface pore and spherulite structures of PVDF hollow fiber membranes in thermally induced phase separation using triple-orifice spinneret for membrane distillation. <i>Separation and Purification Technology</i> , 2021 , 258, 117988	8.3	6
460	Effect of branch structure of thermoresponsive oligomers on draw solution performance in forward osmosis process. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 609, 125659	5.1	4
459	Antifouling and antibacterial behavior of membranes containing quaternary ammonium and zwitterionic polymers. <i>Journal of Colloid and Interface Science</i> , 2021 , 584, 225-235	9.3	30
458	Hollow fiber membranes with hierarchical spherulite surface structure developed by thermally induced phase separation using triple-orifice spinneret for membrane distillation. <i>Journal of Membrane Science</i> , 2021 , 618, 118586	9.6	12
457	Highly improved organic solvent reverse osmosis (OSRO) membrane for organic liquid mixture separation by simple heat treatment. <i>Journal of Membrane Science</i> , 2021 , 618, 118710	9.6	11
456	Effect of hydrophilic polymer modification of reverse osmosis membrane surfaces on organic adsorption and biofouling behavior. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2021 , 609, 125680	5.1	10

- 455 Engineering a dual-functional sulfonated polyelectrolyte-silver nanoparticle complex on a polyamide reverse osmosis membrane for robust biofouling mitigation. *Journal of Membrane Science*, **2021**, 618, 118757 9.6 20
- 454 In situ formation of ultrathin polyampholyte layer on porous polyketone membrane via a one-step dopamine co-deposition strategy for oil/water separation with ultralow fouling. *Journal of Membrane Science*, **2021**, 619, 118789 9.6 19
- 453 Enabling polyketone membrane with underwater superoleophobicity via a hydrogel-based modification for high-efficiency oil-in-water emulsion separation. *Journal of Membrane Science*, **2021**, 618, 118705 9.6 10
- 452 Inkjet printed single walled carbon nanotube as an interlayer for high performance thin film composite nanofiltration membrane. *Journal of Membrane Science*, **2021**, 620, 118901 9.6 20
- 451 Effect of polymer molecular weight on structure and performance of PVDF hollow fiber membranes prepared via TIPS process with co-extrusion of solvent using triple orifice spinneret. *Journal of Membrane Science*, **2021**, 620, 118854 9.6 5
- 450 In situ ultrathin silica layer formation on polyamide thin-film composite membrane surface for enhanced forward osmosis performances. *Journal of Membrane Science*, **2021**, 620, 118876 9.6 4
- 449 Organic solvent reverse osmosis membranes for organic liquid mixture separation: A review. *Journal of Membrane Science*, **2021**, 620, 118882 9.6 20
- 448 One step surfactant entrapment onto PVDF hollow fiber membrane surface by the TIPS process using a triple-layer orifice spinneret. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 611, 125885 5.1 2
- 447 Development of membranes with well-dispersed polyampholytic copolymer via a composite coagulation process. *Journal of Membrane Science*, **2021**, 620, 118848 9.6 6
- 446 Inorganic/organic double-network ion gel membrane with a high ionic liquid content for CO₂ separation. *Polymer Journal*, **2021**, 53, 137-147 2.7 7
- 445 Facile modification of aliphatic polyketone-based thin-film composite membrane for three-dimensional and comprehensive antifouling in active-layer-facing-draw-solution mode. *Journal of Applied Polymer Science*, **2021**, 138, 49711 2.9 2
- 444 Surface engineering with microstructured gel networks for superwetting membranes. *Journal of Materials Chemistry A*, **2021**, 9, 7924-7934 13 12
- 443 Simulation on Pore Formation from Polymer Solution at Surface in Contact with Solid Substrate via Thermally Induced Phase Separation. *Membranes*, **2021**, 11, 3.8 3
- 442 Development of a Micro-Double-Network Ion Gel-Based CO₂ Separation Membrane from Nonvolatile Network Precursors. *Industrial & Engineering Chemistry Research*, **2021**, 60, 12640-12649 3.9 6
- 441 Inorganic/Organic Micro-Double-Network Ion Gel-Based Composite Membrane with Enhanced Mechanical Strength and CO₂ Permeance. *Industrial & Engineering Chemistry Research*, **2021**, 60, 12698-12708 3.9 3
- 440 In situ nanoporous structural characterization of asymmetric hollow fiber membranes for desalination using Raman spectroscopy. *Journal of Membrane Science*, **2021**, 631, 119337 9.6 3
- 439 Thin-film composite hollow-fiber nanofiltration membranes prepared from benzonitrile containing disulfonated poly(arylene ether sulfone) random copolymers coated onto polyphenylene oxide support membranes. *Journal of Membrane Science*, **2021**, 631, 119336 9.6 1
- 438 Multiple effect of thermal treatment approach on PVDF membranes: Permeability enhancement and silver nanoparticles immobilization. *Journal of Environmental Chemical Engineering*, **2021**, 9, 105769 6.8 3

437	Zwitterionic Copolymer-Regulated Interfacial Polymerization for Highly Permselective Nanofiltration Membrane. <i>Nano Letters</i> , 2021 , 21, 6525-6532	11.5	10
436	Development of ultrathin polyamide nanofilm with enhanced inner-pore interconnectivity via graphene quantum dots-assembly intercalation for high-performance organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2021 , 635, 119498	9.6	7
435	Modification of PVDF hollow fiber membrane by co-deposition of PDA/MPC-co-AEMA for membrane distillation application with anti-fouling and anti-scaling properties. <i>Journal of Membrane Science</i> , 2021 , 636, 119596	9.6	10
434	Control of the antagonistic effects of heat-assisted chlorine oxidative degradation on pressure retarded osmosis thin film composite membrane surface. <i>Journal of Membrane Science</i> , 2021 , 636, 119567	9.6	2
433	Aliphatic polyketone-based thin film composite membrane with mussel-inspired polydopamine intermediate layer for high performance osmotic power generation. <i>Desalination</i> , 2021 , 516, 115222	10.3	9
432	One-step entrapment of a PS-PEGMA amphiphilic copolymer on the outer surface of a hollow fiber membrane via TIPS process using triple-orifice spinneret. <i>Journal of Membrane Science</i> , 2021 , 638, 119712	9.6	4
431	Tailored thin film nanocomposite membrane incorporated with Noria for simultaneously overcoming the permeability-selectivity trade-off and the membrane fouling in nanofiltration process. <i>Journal of Membrane Science</i> , 2021 , 640, 119863	9.6	8
430	Laminar HNb3O8-based membranes supported on anodic aluminum oxide with enhanced anti-swelling property for organic solvent nanofiltration. <i>Journal of Membrane Science</i> , 2021 , 640, 119799	9.6	1
429	Interfacial polymerization of thin film selective membrane layers: Effect of polyketone substrates. <i>Journal of Membrane Science</i> , 2021 , 640, 119801	9.6	4
428	Molecular dynamics study on the elucidation of polyamide membrane fouling by nonionic surfactants and disaccharides. <i>Physical Chemistry Chemical Physics</i> , 2021 , 23, 20313-20322	3.6	2
427	Graphene-based membranes for pervaporation processes. <i>Chinese Journal of Chemical Engineering</i> , 2020 , 28, 1755-1766	3.2	15
426	Phase separation behavior of binary mixture of photopolymerizable diacetylene and unsaturated phospholipids in liposomes. <i>Biochimica Et Biophysica Acta - Biomembranes</i> , 2020 , 1862, 183377	3.8	1
425	Controlling spherulitic structures at surface and sub-layer of hollow fiber membranes prepared using nucleation agents via triple-orifice spinneret in TIPS process. <i>Journal of Membrane Science</i> , 2020 , 609, 118229	9.6	6
424	Change of foulant concentration in an anaerobic membrane bioreactor. <i>Water Science and Technology</i> , 2020 , 81, 2381-2390	2.2	
423	Inorganic/organic nanocomposite ion gels with well dispersed secondary silica nanoparticles.. <i>RSC Advances</i> , 2020 , 10, 14451-14457	3.7	4
422	Controlling the formation of porous polyketone membranes via a cross-linkable alginate additive for oil-in-water emulsion separations. <i>Journal of Membrane Science</i> , 2020 , 611, 118362	9.6	17
421	Preparation of polyamide/PVDF composite hollow fiber membranes with well-developed interconnected bicontinuous structure using high-temperature rapid NIPS for forward osmosis. <i>Journal of Membrane Science</i> , 2020 , 612, 118468	9.6	11
420	Fundamental investigation of the gas permeation mechanism of facilitated transport membranes with Co(salen)-containing ionic liquid as O ₂ carriers. <i>Separation and Purification Technology</i> , 2020 , 248, 117018	8.3	3

419	Energy dissipation via the internal fracture of the silica particle network in inorganic/organic double network ion gels. <i>Soft Matter</i> , 2020 , 16, 2363-2370	3.6	7
418	Effect of polyelectrolyte structure on formation of supported lipid bilayers on polyelectrolyte multilayers prepared using the layer-by-layer method. <i>Journal of Colloid and Interface Science</i> , 2020 , 569, 211-218	9.3	2
417	Hollow Fiber-Type Facilitated Transport Membrane Composed of a Polymerized Ionic Liquid-Based Gel Layer with Amino Acidate as the CO ₂ Carrier. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 2083-2092	3.9	8
416	Preparation of hybrid membranes by incorporating hydrophilic UiO-66 nanoparticles for high-performance pervaporation dehydration of aprotic solvents. <i>Journal of Nanoparticle Research</i> , 2020 , 22, 1	2.3	2
415	Flame-sprayed strontium- and magnesium-doped hydroxyapatite on titanium implants for osseointegration enhancement. <i>Surface and Coatings Technology</i> , 2020 , 386, 125452	4.4	10
414	Preparation of monoamine-incorporated polyamide nanofiltration membranes by interfacial polymerization for efficient separation of divalent anions from divalent cations. <i>Separation and Purification Technology</i> , 2020 , 239, 116530	8.3	11
413	A review of membrane wettability for the treatment of saline water deploying membrane distillation. <i>Desalination</i> , 2020 , 479, 114312	10.3	106
412	Triple-Layer Nanocomposite Membrane Prepared by Electrospinning Based on Modified PES with Carbon Nanotubes for Membrane Distillation Applications. <i>Membranes</i> , 2020 , 10,	3.8	27
411	Organic Liquid Mixture Separation Using an Aliphatic Polyketone-Supported Polyamide Organic Solvent Reverse Osmosis (OSRO) Membrane. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 7586-7594	9.5	32
410	Preparation of a positively charged NF membrane by evaporation deposition and the reaction of PEI on the surface of the C-PES/PES blend UF membrane. <i>Progress in Organic Coatings</i> , 2020 , 141, 105570	4.8	5
409	Silica gel-coated silicon carbide layer deposited by atmospheric plasma spraying. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2020 , 110, 173-181	5.3	1
408	Influence of graphene oxide lateral size on the properties and performances of forward osmosis membrane. <i>Desalination</i> , 2020 , 484, 114421	10.3	36
407	Development of Janus membrane with controllable asymmetric wettability for highly-efficient oil/water emulsions separation. <i>Journal of Membrane Science</i> , 2020 , 606, 118141	9.6	34
406	Production of High Flux Poly(Ether Sulfone) Membrane Using Silica Additive Extracted from Natural Resource. <i>Membranes</i> , 2020 , 10,	3.8	4
405	Permeation and diffusion of nutrient ions in poly (vinyl alcohol) hydrogel membrane. <i>Chemical Papers</i> , 2020 , 74, 3913-3923	1.9	3
404	Nanochannel-confined charge repulsion of ions in a reduced graphene oxide membrane. <i>Journal of Materials Chemistry A</i> , 2020 , 8, 25880-25889	13	11
403	Enzyme-aided forward osmosis (E-FO) process to enhance removal of micropollutants from water resources. <i>Journal of Membrane Science</i> , 2020 , 593, 117399	9.6	9
402	Development of facilitated transport membranes composed of a dense gel layer containing CO ₂ carrier formed on porous cylindrical support membranes. <i>Chemical Engineering Research and Design</i> , 2020 , 153, 284-293	5.5	5

401	Fouling and performance of outer selective hollow fiber membrane in osmotic membrane bioreactor: Cross flow and air scouring effects. <i>Bioresource Technology</i> , 2020 , 295, 122303	11	8
400	Effect of mass transfer at the interface of the polymer solution and extruded solvent during the air gap on membrane structures and performances in TIPS process using triple-orifice spinneret. <i>Journal of Membrane Science</i> , 2020 , 595, 117513	9.6	17
399	Improved water permeability and structural stability in a polysulfone-grafted graphene oxide composite membrane used for dye separation. <i>Journal of Membrane Science</i> , 2020 , 595, 117547	9.6	31
398	Construction of a stable zwitterionic layer on negatively-charged membrane via surface adsorption and cross-linking. <i>Journal of Membrane Science</i> , 2020 , 597, 117766	9.6	11
397	Effect of mixed diluents during thermally induced phase separation process on structures and performances of hollow fiber membranes prepared using triple-orifice spinneret. <i>Journal of Membrane Science</i> , 2020 , 596, 117715	9.6	10
396	Development of Polyvinylidene Fluoride Membrane by Incorporating Bio-Based Ginger Extract as Additive. <i>Polymers</i> , 2020 , 12,	4.5	11
395	Fabrication of porous polyketone forward osmosis membranes modified with aromatic compounds: Improved pressure resistance and low structural parameter. <i>Separation and Purification Technology</i> , 2020 , 251, 117400	8.3	7
394	Effect of ligand structures on oxygen absorbability and viscosity of metal-containing ionic liquids. <i>Journal of Molecular Liquids</i> , 2020 , 318, 114365	6	2
393	Custom-tailoring metal-organic framework in thin-film nanocomposite nanofiltration membrane with enhanced internal polarity and amplified surface crosslinking for elevated separation property. <i>Desalination</i> , 2020 , 493, 114649	10.3	18
392	Engineering Heterostructured Thin-Film Nanocomposite Membrane with Functionalized Graphene Oxide Quantum Dots (GOQD) for Highly Efficient Reverse Osmosis. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 38662-38673	9.5	27
391	Structure control of hydrophilized PVDF hollow-fiber membranes using amphiphilic copolymers: PMMA-co-P (HEMA-co-MEA). <i>Journal of Membrane Science</i> , 2020 , 612, 118421	9.6	5
390	Enhancing membrane surface antifouling by implanting amphiphilic polymer brushes using a swelling induced entrapment technique. <i>Colloids and Surfaces B: Biointerfaces</i> , 2020 , 195, 111212	6	2
389	Multistage osmotically assisted reverse osmosis process for concentrating solutions using hollow fiber membrane modules. <i>Chemical Engineering Research and Design</i> , 2020 , 162, 117-124	5.5	5
388	Engineering of ultrafine polydopamine nanoparticles in-situ assembling on polyketone substrate for highly-efficient oil-water emulsions separation. <i>Journal of Membrane Science</i> , 2020 , 613, 118501	9.6	22
387	Effect of the molecular weights of thermoresponsive polyalkylene glycol draw solutes on forward osmosis performance. <i>Separation and Purification Technology</i> , 2020 , 252, 117462	8.3	7
386	Antifouling thin-film composite membranes with multi-defense properties by controllably constructing amphiphilic diblock copolymer brush layer. <i>Journal of Membrane Science</i> , 2020 , 614, 118515	9.6	14
385	A Numerical Simulation and Experimental Comparison of Atmospheric Thermal Plasma Spray Coatings Between Internal and External Powder Injection Processes. <i>IEEE Transactions on Plasma Science</i> , 2020 , 48, 2759-2767	1.3	0
384	2D Nanocomposite Membranes: Water Purification and Fouling Mitigation. <i>Membranes</i> , 2020 , 10,	3.8	6

383	One-Pot Polymerization of Dopamine as an Additive to Enhance Permeability and Antifouling Properties of Polyethersulfone Membrane. <i>Polymers</i> , 2020 , 12,	4.5	5
382	Two-Step Dopamine-to-Polydopamine Modification of Polyethersulfone Ultrafiltration Membrane for Enhancing Anti-Fouling and Ultraviolet Resistant Properties. <i>Polymers</i> , 2020 , 12,	4.5	8
381	Preparation of Inorganic/Organic Double-Network Ion Gels Using a Cross-Linkable Polymer in an Open System. <i>Macromolecules</i> , 2020 , 53, 8529-8538	5.5	4
380	Gas Permeation Characteristics of TiO-ZrO-Aromatic Organic Chelating Ligand (aOCL) Composite Membranes. <i>Membranes</i> , 2020 , 10,	3.8	2
379	Improved anti-biofouling performance of polyamide reverse osmosis membranes modified with a polyampholyte with effective carboxyl anion and quaternary ammonium cation ratio. <i>Journal of Membrane Science</i> , 2020 , 595, 117529	9.6	18
378	Design of niobate nanosheet-graphene oxide composite nanofiltration membranes with improved permeability. <i>Journal of Membrane Science</i> , 2020 , 595, 117598	9.6	20
377	Improved Performance of Polysulfone Ultrafiltration Membrane Using TCPP by Post-Modification Method. <i>Membranes</i> , 2020 , 10,	3.8	5
376	Investigation of Cleaning Strategies for an Antifouling Thin-Film Composite Forward Osmosis Membrane for Treatment of Polymer-Flooding Produced Water. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 994-1003	3.9	9
375	Improving chemical cleaning of fouled membranes in a drinking water treatment plant. <i>Water Science and Technology: Water Supply</i> , 2019 , 19, 2330-2337	1.4	0
374	Preparation of thin film composite nano-filtration membranes for brackish water softening based on the reaction between functionalized UF membranes and polyethyleneimine. <i>Journal of Membrane Science</i> , 2019 , 588, 117207	9.6	22
373	Electrostatic Adsorption Behavior of Zwitterionic Copolymers on Negatively Charged Surfaces. <i>Langmuir</i> , 2019 , 35, 9152-9160	4	7
372	Development of highly water-dispersible complexes between coenzyme Q and protein hydrolysates. <i>European Journal of Pharmaceutical Sciences</i> , 2019 , 136, 104936	5.1	6
371	Morpholine Derivatives as Thermoresponsive Draw Solutes for Forward Osmosis Desalination. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 12253-12260	3.9	6
370	Ultra-low graphene oxide loading for water permeability, antifouling and antibacterial improvement of polyethersulfone/sulfonated polysulfone ultrafiltration membranes. <i>Journal of Colloid and Interface Science</i> , 2019 , 552, 319-331	9.3	56
369	Antifouling Double-Skinned Forward Osmosis Membranes by Constructing Zwitterionic Brush-Decorated MWCNT Ultrathin Films. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 19462-19471	9.5	21
368	Effect of chain structure on the solvent resistance in aprotic solvents and pervaporation performance of PMDA and BTDA based polyimide membranes. <i>Journal of Membrane Science</i> , 2019 , 584, 216-226	9.6	9
367	Numerical simulation of particulate cake formation in cross-flow microfiltration: Effects of attractive forces. <i>Advanced Powder Technology</i> , 2019 , 30, 1592-1599	4.6	4
366	Facile development of poly(tetrafluoroethylene-r-vinylpyrrolidone) modified PVDF membrane with comprehensive antifouling property for highly-efficient challenging oil-in-water emulsions separation. <i>Journal of Membrane Science</i> , 2019 , 584, 161-172	9.6	27

365	Tough and stretchable inorganic/organic double network ion gel containing gemini-type ionic liquid as a multiple hydrogen bond cross-linker.. <i>RSC Advances</i> , 2019 , 9, 11870-11876	3.7	7
364	Molecular simulation of a modified amphotericin B-Ergosterol artificial water channel to evaluate structure and water molecule transport performance. <i>Journal of Membrane Science</i> , 2019 , 583, 49-58	9.6	4
363	Development of an HKUST-1 Nanofiller-Templated Poly(ether sulfone) Mixed Matrix Membrane for a Highly Efficient Ultrafiltration Process. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 18782-18796	9.5	26
362	Polyketone-based membrane support improves the organic solvent resistance of laccase catalysis. <i>Journal of Colloid and Interface Science</i> , 2019 , 544, 230-240	9.3	9
361	Synergistic effects of organic and inorganic additives in preparation of composite poly(vinylidene fluoride) antifouling ultrafiltration membranes. <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47737	2.9	3
360	Effect of polymer structure modified on RO membrane surfaces via surface-initiated ATRP on dynamic biofouling behavior. <i>Journal of Membrane Science</i> , 2019 , 582, 111-119	9.6	19
359	Osmotically Assisted Reverse Osmosis Utilizing Hollow Fiber Membrane Module for Concentration Process. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 6721-6729	3.9	14
358	Optimization of Pressure-Retarded Osmosis with Hollow-Fiber Membrane Modules by Numerical Simulation. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 6687-6695	3.9	10
357	A comprehensively fouling- and solvent-resistant aliphatic polyketone membrane for high-flux filtration of difficult oil-in-water micro- and nanoemulsions. <i>Journal of Membrane Science</i> , 2019 , 582, 48-58	9.6	38
356	Two-dimensional niobate nanosheet membranes for water treatment: Effect of nanosheet preparation method on membrane performance. <i>Separation and Purification Technology</i> , 2019 , 219, 222-229	8.3	11
355	Fouling prediction method using TOC and EEM analysis. <i>Water Science and Technology: Water Supply</i> , 2019 , 19, 610-617	1.4	1
354	Preparation and characterization of organic chelate ligand (OCL)-templated TiO ₂ /rGO nanofiltration membranes. <i>Journal of Membrane Science</i> , 2019 , 591, 117304	9.6	12
353	Preparation of Polyamide Thin-Film Composite Membranes Using Hydrophilic Hollow Fiber PVDF via the TIPS Process Modified by PVA Diffusion. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 21691-21699	3.9	11
352	?Original Contribution?Molecular Simulation of Adsorption Behavior of a Silica Nanoparticle onto a Polymeric Membrane Surface in Water. <i>Membrane</i> , 2019 , 44, 192-198	0	
351	An ultrathin in situ silicification layer developed by an electrostatic attraction force strategy for ultrahigh-performance oil/water emulsion separation. <i>Journal of Materials Chemistry A</i> , 2019 , 7, 24569-24582	13.2	38
350	Swelling Resistance and Mechanical Performance of Physical Crosslink-Based Poly(Vinyl Alcohol) Hydrogel Film with Various Molecular Weight. <i>Journal of Polymer Science, Part B: Polymer Physics</i> , 2019 , 57, 1673-1683	2.6	12
349	Improving Water Permeability of Hydrophilic PVDF Membrane Prepared via Blending with Organic and Inorganic Additives for Humic Acid Separation. <i>Molecules</i> , 2019 , 24,	4.8	11
348	Molecular Dynamics Simulation Study of Solid Vibration Permeation in Microporous Amorphous Silica Network Voids. <i>Membranes</i> , 2019 , 9,	3.8	1

347	Investigation into the Effective Chemical Structure of Metal-Containing Ionic Liquids for Oxygen Absorption. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 23304-23316	3.9	4
346	pH-dependent property of carboxyl-based ultrafiltration membranes fabricated from poly(vinyl chloride-r-acrylic acid). <i>Journal of Applied Polymer Science</i> , 2019 , 136, 47068	2.9	5
345	Development of thermoresponsive star oligomers with a glycerol backbone as the draw solute in forward osmosis process. <i>Journal of Membrane Science</i> , 2019 , 574, 147-153	9.6	18
344	Positively charged nanofiltration membrane based on cross-linked polyvinyl chloride copolymer. <i>Journal of Membrane Science</i> , 2019 , 572, 28-37	9.6	54
343	Fundamental investigation of osmolality, thermo-responsive phase diagram, and water-drawing ability of ionic-liquid-based draw solution for forward osmosis membrane process. <i>Journal of Membrane Science</i> , 2019 , 570-571, 93-102	9.6	15
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341	Effect of the supporting layer structures on antifouling properties of forward osmosis membranes in AL-DS mode. <i>Journal of Membrane Science</i> , 2018 , 552, 265-273	9.6	20
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339	Tailoring the surface pore size of hollow fiber membranes in the TIPS process. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 535-547	13	38
338	Improving bonding strength between a hydrophilic coating layer and poly(ethylene terephthalate) braid for preparing mechanically stable braid-reinforced hollow fiber membranes. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 46104	2.9	17
337	Zwitterionic polymer modification of polyamide reverse-osmosis membranes via surface amination and atom transfer radical polymerization for anti-biofouling. <i>Journal of Membrane Science</i> , 2018 , 550, 332-339	9.6	62
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335	Evaluating the Antifouling Properties of Poly(ether sulfone)/Sulfonated Poly(ether sulfone) Blend Membranes in a Full-Size Membrane Module. <i>Industrial & Engineering Chemistry Research</i> , 2018 , 57, 4430-4441	3.9	14
334	Synthesis of hydrophilic carbon nanotubes by grafting poly(methyl methacrylate) via click reaction and its effect on poly(vinylidene fluoride)-carbon nanotube composite membrane properties. <i>Applied Surface Science</i> , 2018 , 435, 79-90	6.7	22
333	Preparation of Amphotericin B-Ergosterol structures and molecular simulation of water adsorption and diffusion. <i>Journal of Membrane Science</i> , 2018 , 545, 229-239	9.6	8
332	Development of antifouling poly(vinyl chloride) blend membranes by atom transfer radical polymerization. <i>Journal of Applied Polymer Science</i> , 2018 , 135, 45832	2.9	11
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330	Toluene vapor removal using an inorganic/organic double-network ion gel membrane. <i>Separation Science and Technology</i> , 2018 , 53, 2840-2851	2.5	5

329	Improved antifouling properties of membranes by simple introduction of zwitterionic copolymers via electrostatic adsorption. <i>Journal of Membrane Science</i> , 2018 , 564, 672-681	9.6	31
328	Novel CA/PVDF nanofiber supports strategically designed via coaxial electrospinning for high performance thin-film composite forward osmosis membranes for desalination. <i>Desalination</i> , 2018 , 445, 63-74	10.3	38
327	Surface-Engineered Biocatalytic Composite Membranes for Reduced Protein Fouling and Self-Cleaning. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 27477-27487	9.5	17
326	Preparation of positively charged composite nanofiltration membranes by quaternization crosslinking for precise molecular and ionic separations. <i>Journal of Colloid and Interface Science</i> , 2018 , 531, 168-180	9.3	19
325	Preparation and characterization of polyvinylidene difluoride-co-chlorotrifluoroethylene hollow fiber membranes with high alkaline resistance. <i>Polymer</i> , 2018 , 145, 310-323	3.9	12
324	Inorganic/Organic Double-Network Ion Gels with Partially Developed Silica-Particle Network. <i>Langmuir</i> , 2018 , 34, 10622-10633	4	18
323	Dual Superlyophobic Aliphatic Polyketone Membranes for Highly Efficient Emulsified Oil-Water Separation: Performance and Mechanism. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 30860-30870	9.5	30
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314	Molecular Dynamics Simulation Study of Polyamide Membrane Structures and RO/FO Water Permeation Properties. <i>Membranes</i> , 2018 , 8,	3.8	9
313	Fouling-Resistant and Self-Cleaning Aliphatic Polyketone Membrane for Sustainable Oil-Water Emulsion Separation. <i>ACS Applied Materials & Interfaces</i> , 2018 , 10, 44880-44889	9.5	32
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