

Hideto Matsuyama

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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	CO ₂ separation facilitated by task-specific ionic liquids using a supported liquid membrane. <i>Journal of Membrane Science</i> , 2008 , 314, 1-4	9.6	265
489	Development of a hydrophilic polymer membrane containing silver nanoparticles with both organic antifouling and antibacterial properties. <i>Journal of Membrane Science</i> , 2012 , 387-388, 1-6	9.6	212
488	Facilitated transport of CO ₂ through polyethylenimine/poly(vinyl alcohol) blend membrane. <i>Journal of Membrane Science</i> , 1999 , 163, 221-227	9.6	175
487	Simultaneous improvement of the monovalent anion selectivity and antifouling properties of an anion exchange membrane in an electrodialysis process, using polyelectrolyte multilayer deposition. <i>Journal of Membrane Science</i> , 2013 , 431, 113-120	9.6	147
486	Preparation of polyethylene hollow fiber membrane via thermally induced phase separation. <i>Journal of Membrane Science</i> , 2003 , 223, 119-126	9.6	144
485	Preparation of PVDF hollow fiber membrane from a ternary polymer/solvent/nonsolvent system via thermally induced phase separation (TIPS) method. <i>Separation and Purification Technology</i> , 2008 , 63, 415-423	8.3	142
484	Structure control of anisotropic and asymmetric polypropylene membrane prepared by thermally induced phase separation. <i>Journal of Membrane Science</i> , 2000 , 179, 91-100	9.6	142
483	Effect of polypropylene molecular weight on porous membrane formation by thermally induced phase separation. <i>Journal of Membrane Science</i> , 2002 , 204, 323-328	9.6	125
482	Amino acid ionic liquid-based facilitated transport membranes for CO ₂ separation. <i>Chemical Communications</i> , 2012 , 48, 6903-5	5.8	117
481	Formation of anisotropic membranes via thermally induced phase separation. <i>Polymer</i> , 1999 , 40, 2289-2301	9.6	114
480	Preparation of PVDF/PMMA blend hollow fiber membrane via thermally induced phase separation (TIPS) method. <i>Separation and Purification Technology</i> , 2009 , 66, 76-83	8.3	111
479	Effect of kinds of membrane materials on membrane fouling with BSA. <i>Journal of Membrane Science</i> , 2011 , 384, 157-165	9.6	107
478	A review of membrane wettability for the treatment of saline water deploying membrane distillation. <i>Desalination</i> , 2020 , 479, 114312	10.3	106
477	Inorganic/Organic Double-Network Gels Containing Ionic Liquids. <i>Advanced Materials</i> , 2017 , 29, 1704118	11.24	105
476	Improvement of the antifouling potential of an anion exchange membrane by surface modification with a polyelectrolyte for an electrodialysis process. <i>Journal of Membrane Science</i> , 2012 , 417-418, 137-143	9.6	103
475	Fouling reduction of reverse osmosis membrane by surface modification via layer-by-layer assembly. <i>Separation and Purification Technology</i> , 2012 , 99, 1-7	8.3	103
474	Development of antibacterial polyamide reverse osmosis membrane modified with a covalently immobilized enzyme. <i>Journal of Membrane Science</i> , 2013 , 428, 403-409	9.6	100

473	The improvement of antibiofouling efficiency of polyethersulfone membrane by functionalization with zwitterionic monomers. <i>Journal of Membrane Science</i> , 2012 , 401-402, 292-299	9.6	96
472	Improved antifouling of anion-exchange membrane by polydopamine coating in electrodialysis process. <i>Desalination</i> , 2014 , 332, 126-133	10.3	96
471	Development of a chlorine-resistant polyamide reverse osmosis membrane. <i>Desalination</i> , 2007 , 207, 340-348	10.3	96
470	Preparation of porous membrane by combined use of thermally induced phase separation and immersion precipitation. <i>Polymer</i> , 2002 , 43, 5243-5248	3.9	96
469	Biofouling resistance of reverse osmosis membrane modified with polydopamine. <i>Desalination</i> , 2014 , 336, 87-96	10.3	93
468	CO ₂ absorption by using PVDF hollow fiber membrane contactors with various membrane structures. <i>Separation and Purification Technology</i> , 2009 , 69, 210-220	8.3	93
467	Formation of porous flat membrane by phase separation with supercritical CO ₂ . <i>Journal of Membrane Science</i> , 2001 , 194, 157-163	9.6	89
466	Separation of ethylene from ethane by a flowing liquid membrane using silver nitrate as a carrier. <i>Journal of Membrane Science</i> , 1989 , 45, 115-136	9.6	89
465	Analysis of solute diffusion in poly(vinyl alcohol) hydrogel membrane. <i>Journal of Membrane Science</i> , 1997 , 126, 151-160	9.6	88
464	Selective separation of CO ₂ by using novel facilitated transport membrane at elevated temperatures and pressures. <i>Journal of Membrane Science</i> , 2007 , 291, 157-164	9.6	87
463	Preparation and membrane performance of poly(ethylene-co-vinyl alcohol) hollow fiber membrane via thermally induced phase separation. <i>Polymer</i> , 2003 , 44, 7441-7447	3.9	86
462	Effect of surface morphology on membrane fouling by humic acid with the use of cellulose acetate butyrate hollow fiber membranes. <i>Journal of Membrane Science</i> , 2008 , 320, 483-491	9.6	85
461	Effect of type of poly(ethylene glycol) (PEG) based amphiphilic copolymer on antifouling properties of copolymer/poly(vinylidene fluoride) (PVDF) blend membranes. <i>Journal of Membrane Science</i> , 2016 , 514, 429-439	9.6	83
460	Effect of diluents on membrane formation via thermally induced phase separation. <i>Journal of Applied Polymer Science</i> , 2001 , 82, 169-177	2.9	82
459	Membrane formation via phase separation induced by penetration of nonsolvent from vapor phase. II. Membrane morphology. <i>Journal of Applied Polymer Science</i> , 1999 , 74, 171-178	2.9	81
458	Separation of ethylene from ethane by supported liquid membranes containing silver nitrate as a carrier.. <i>Journal of Chemical Engineering of Japan</i> , 1986 , 19, 419-424	0.8	79
457	Effect of water in ionic liquids on CO ₂ permeability in amino acid ionic liquid-based facilitated transport membranes. <i>Journal of Membrane Science</i> , 2012 , 415-416, 168-175	9.6	77
456	Surface modification of an anion exchange membrane to improve the selectivity for monovalent anions in electrodialysis Experimental verification of theoretical predictions. <i>Journal of Membrane Science</i> , 2015 , 490, 301-310	9.6	76

455	Preparation of a forward osmosis membrane using a highly porous polyketone microfiltration membrane as a novel support. <i>Journal of Membrane Science</i> , 2015 , 487, 51-59	9.6	75
454	Preparation of poly(lactic acid) hollow fiber membranes via phase separation methods. <i>Journal of Membrane Science</i> , 2009 , 342, 307-312	9.6	75
453	Membrane formation via phase separation induced by penetration of nonsolvent from vapor phase. I. Phase diagram and mass transfer process. <i>Journal of Applied Polymer Science</i> , 1999 , 74, 159-170	2.9	73
452	Selective permeation of CO ₂ through poly 2-(N,N-dimethyl)aminoethyl methacrylate membrane prepared by plasma-graft polymerization technique. <i>Journal of Membrane Science</i> , 1996 , 114, 193-200	9.6	73
451	Anti-biofouling of polyamide reverse osmosis membranes using phosphorylcholine polymer grafted by surface-initiated atom transfer radical polymerization. <i>Desalination</i> , 2014 , 350, 21-27	10.3	71
450	An amino acid ionic liquid-based tough ion gel membrane for CO ₂ capture. <i>Chemical Communications</i> , 2015 , 51, 13658-61	5.8	70
449	Effect of additives on the morphology and properties of poly(vinylidene fluoride) blend hollow fiber membrane prepared by the thermally induced phase separation method. <i>Journal of Membrane Science</i> , 2012 , 423-424, 189-194	9.6	68
448	Improved antifouling properties of polyvinyl chloride blend membranes by novel phosphate based-zwitterionic polymer additive. <i>Journal of Membrane Science</i> , 2017 , 528, 326-335	9.6	67
447	Structures and antifouling properties of polyvinyl chloride/poly(methyl methacrylate)-graft-poly(ethylene glycol) blend membranes formed in different coagulation media. <i>Journal of Membrane Science</i> , 2017 , 524, 235-244	9.6	67
446	Mechanical properties of uncrosslinked and crosslinked linear low-density polyethylene/wax blends. <i>Journal of Applied Polymer Science</i> , 2001 , 81, 973-980	2.9	65
445	Facilitated Transport of Carbon Dioxide through Supported Liquid Membranes of Aqueous Amine Solutions. <i>Industrial & Engineering Chemistry Research</i> , 1996 , 35, 538-545	3.9	65
444	Polymeric ion-gels containing an amino acid ionic liquid for facilitated CO ₂ transport media. <i>Chemical Communications</i> , 2014 , 50, 2996-9	5.8	64
443	Effect of organic solvents on membrane formation by phase separation with supercritical CO ₂ . <i>Journal of Membrane Science</i> , 2002 , 204, 81-87	9.6	64
442	Development of polymer inclusion membranes based on cellulose triacetate: carrier-mediated transport of cerium(III). <i>Journal of Membrane Science</i> , 2004 , 244, 251-257	9.6	63
441	An attempt for the stabilization of supported liquid membrane. <i>Separation and Purification Technology</i> , 2000 , 21, 137-144	8.3	63
440	Development of a new functional cation-exchange membrane and its application to facilitated transport of CO ₂ . <i>Journal of Membrane Science</i> , 1994 , 93, 237-244	9.6	63
439	Extraction of amino acids by emulsion liquid membranes containing di (2-ethylhexyl)phosphoric acid as a carrier biotechnology; coupled, facilitated transport; diffusion. <i>Journal of Membrane Science</i> , 1991 , 58, 11-32	9.6	63
438	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

437	Effects of three natural organic matter types on cellulose acetate butyrate microfiltration membrane fouling. <i>Journal of Membrane Science</i> , 2011 , 379, 233-238	9.6	62
436	Formation of hydrophilic microporous membranes via thermally induced phase separation. <i>Journal of Membrane Science</i> , 1998 , 142, 213-224	9.6	62
435	Effect of extraction and drying on the structure of microporous polyethylene membranes prepared via thermally induced phase separation. <i>Journal of Membrane Science</i> , 2002 , 204, 413-419	9.6	62
434	Formation of porous poly(ethylene-co-vinyl alcohol) membrane via thermally induced phase separation. <i>Journal of Applied Polymer Science</i> , 2001 , 79, 2449-2455	2.9	62
433	Formation of microcapsules of medicines by the rapid expansion of a supercritical solution with a nonsolvent. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 742-752	2.9	59
432	Improvements in the CO ₂ permeation selectivities of amino acid ionic liquid-based facilitated transport membranes by controlling their gas absorption properties. <i>Journal of Membrane Science</i> , 2014 , 454, 155-162	9.6	58
431	Effect of metal ions on humic acid fouling of hollow fiber ultrafiltration membrane. <i>Journal of Membrane Science</i> , 2011 , 376, 247-253	9.6	58
430	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
429	Separation and concentration of CO ₂ by capillary-type facilitated transport membrane module with permeation of carrier solution. <i>Journal of Membrane Science</i> , 2004 , 234, 83-94	9.6	56
428	Effect of surface properties on antifouling performance of poly(vinyl chloride-co-poly(ethylene glycol)methyl ether methacrylate)/PVC blend membrane. <i>Journal of Membrane Science</i> , 2016 , 514, 537-546	9.6	55
427	Effect of surface roughness of hollow fiber membranes with gear-shaped structure on membrane fouling by sodium alginate. <i>Journal of Membrane Science</i> , 2011 , 366, 389-397	9.6	55
426	Kinetics and mechanism of metal extraction with acidic organophosphorus extractants (I): Extraction rate limited by diffusion process. <i>Hydrometallurgy</i> , 1990 , 24, 19-35	4	55
425	Enhanced antibiofouling of RO membranes via polydopamine coating and polyzwitterion immobilization. <i>Desalination</i> , 2014 , 337, 23-30	10.3	54
424	Membrane formation and structure development by dry-cast process. <i>Journal of Membrane Science</i> , 1997 , 135, 271-288	9.6	54
423	Positively charged nanofiltration membrane based on cross-linked polyvinyl chloride copolymer. <i>Journal of Membrane Science</i> , 2019 , 572, 28-37	9.6	54
422	New approach for the fabrication of double-network ion-gel membranes with high CO ₂ /N ₂ separation performance based on facilitated transport. <i>Journal of Membrane Science</i> , 2017 , 530, 166-175	9.6	52
421	Development of a Spiral-Type Flowing Liquid Membrane Module with High Stability and Its Application to the Recovery of Chromium and Zinc. <i>Separation Science and Technology</i> , 1989 , 24, 981-999	2.5	52
420	Extraction of Lanthanoids by Liquid Surfactant Membranes. <i>Separation Science and Technology</i> , 1986 , 21, 229-250	2.5	51

419	High CO ₂ separation performance of amino acid ionic liquid-based double network ion gel membranes in low CO ₂ concentration gas mixtures under humid conditions. <i>Journal of Membrane Science</i> , 2017 , 525, 290-297	9.6	50
418	Fundamental Investigation of the Factors Controlling the CO ₂ Permeability of Facilitated Transport Membranes Containing Amine-Functionalized Task-Specific Ionic Liquids. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 2422-2431	3.9	50
417	Preparation of monodispersed polyelectrolyte microcapsules with high encapsulation efficiency by an electrospray technique. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2010 , 370, 28-34	5.1	50
416	Effects of membrane thickness and membrane preparation condition on facilitated transport of CO ₂ through ionomer membrane. <i>Separation and Purification Technology</i> , 1999 , 17, 235-241	8.3	50
415	Facilitated transport of CO ₂ through various ion exchange membranes prepared by plasma graft polymerization. <i>Journal of Membrane Science</i> , 1996 , 117, 251-260	9.6	50
414	Effects of diluent molecular weight on the performance of hydrophilic poly(vinyl butyral)/Pluronic F127 blend hollow fiber membrane via thermally induced phase separation. <i>Journal of Membrane Science</i> , 2009 , 338, 128-134	9.6	49
413	Preparation of hydrophilic poly(vinyl butyral) hollow fiber membrane via thermally induced phase separation. <i>Separation and Purification Technology</i> , 2005 , 45, 200-207	8.3	49
412	Selective separation of chloride and sulfate by nanofiltration for high saline wastewater recycling. <i>Separation and Purification Technology</i> , 2016 , 166, 135-141	8.3	49
411	Novel ultrafiltration membranes with excellent antifouling properties and chlorine resistance using a poly(vinyl chloride)-based copolymer. <i>Journal of Membrane Science</i> , 2018 , 549, 101-110	9.6	49
410	Evaluation of energy consumption for separation of CO ₂ in flue gas by hollow fiber facilitated transport membrane module with permeation of amine solution. <i>Separation and Purification Technology</i> , 2005 , 46, 26-32	8.3	48
409	Effects of thermal history on anisotropic and asymmetric membranes formed by thermally induced phase separation. <i>Journal of Membrane Science</i> , 1998 , 142, 27-42	9.6	46
408	Novel preparation and fundamental characterization of polyamide 6 self-supporting hollow fiber membranes via thermally induced phase separation (TIPS). <i>Journal of Membrane Science</i> , 2018 , 546, 1-14	9.6	45
407	Effect of operating conditions on osmotic-driven membrane performances of cellulose triacetate forward osmosis hollow fiber membrane. <i>Desalination</i> , 2015 , 362, 34-42	10.3	45
406	Effect of PVP Additive on Porous Polysulfone Membrane Formation by Immersion Precipitation Method. <i>Separation Science and Technology</i> , 2003 , 38, 3449-3458	2.5	45
405	Kinetic studies of thermally induced phase separation in polymer/diluent system. <i>Journal of Applied Polymer Science</i> , 2000 , 76, 1028-1036	2.9	45
404	Biofouling phenomena on anion exchange membranes under the reverse electrodialysis process. <i>Journal of Membrane Science</i> , 2017 , 530, 232-239	9.6	44
403	Stabilization of layer-by-layer assembled nanofiltration membranes by crosslinking via amide bond formation and siloxane bond formation. <i>Journal of Membrane Science</i> , 2013 , 447, 128-133	9.6	44
402	Preparation and characterization of poly(vinyl butyral) hollow fiber membrane via thermally induced phase separation with diluent polyethylene glycol 200. <i>Desalination</i> , 2010 , 257, 117-123	10.3	44

401	Phase separation mechanism during membrane formation by dry-cast process. <i>Journal of Applied Polymer Science</i> , 2000 , 77, 776-783	2.9	44
400	A facilitated transport ion-gel membrane for propylene/propane separation using silver ion as a carrier. <i>Journal of Membrane Science</i> , 2013 , 431, 121-130	9.6	43
399	Membrane fouling properties of hollow fiber membranes prepared from cellulose acetate derivatives. <i>Journal of Membrane Science</i> , 2011 , 376, 102-109	9.6	43
398	Formation of polypropylene particles via thermally induced phase separation. <i>Polymer</i> , 2000 , 41, 8673-8679	9.7	43
397	Incorporating hyperbranched polyester into cross-linked polyamide layer to enhance both permeability and selectivity of nanofiltration membrane. <i>Journal of Membrane Science</i> , 2016 , 518, 141-149	8.6	42
396	Theoretical study of the permselectivity of an anion exchange membrane in electrodialysis. <i>Journal of Membrane Science</i> , 2014 , 470, 486-493	9.6	42
395	Effect of heat treatment on performance of chlorine-resistant polyamide reverse osmosis membranes. <i>Desalination</i> , 2009 , 247, 370-377	10.3	41
394	Preparation of polymer blend hollow fiber membrane via thermally induced phase separation. <i>Separation and Purification Technology</i> , 2006 , 52, 363-371	8.3	41
393	Ethylene/ethane separation and concentration by hollow fiber facilitated transport membrane module with permeation of silver nitrate solution. <i>Separation and Purification Technology</i> , 2005 , 44, 19-29	8.3	41
392	One-step fabrication of robust and anti-oil-fouling aliphatic polyketone composite membranes for sustainable and efficient filtration of oil-in-water emulsions. <i>Journal of Materials Chemistry A</i> , 2018 , 6, 24641-24650	13	41
391	Improvement of Antifouling Properties of Polyvinylidene Fluoride Hollow Fiber Membranes by Simple Dip Coating of Phosphorylcholine Copolymer via Hydrophobic Interactions. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 2491-2497	3.9	40
390	Selective permeation of carbon dioxide through plasma polymerized membrane from diisopropylamine. <i>Journal of Membrane Science</i> , 1994 , 92, 257-265	9.6	40
389	Thin-film composite forward osmosis membrane with high water flux and high pressure resistance using a thicker void-free polyketone porous support. <i>Desalination</i> , 2017 , 402, 1-9	10.3	39
388	Characterization of methyl-substituted polyamides used for reverse osmosis membranes by positron annihilation lifetime spectroscopy and MD simulation. <i>Journal of Applied Polymer Science</i> , 2009 , 113, 1757-1762	2.9	39
387	Preparation of hydrophilic poly(vinyl butyral)/Pluronic F127 blend hollow fiber membrane via thermally induced phase separation. <i>Separation and Purification Technology</i> , 2008 , 61, 1-8	8.3	39
386	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
385	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
384	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

383	Effect of membrane structure on gas absorption performance and long-term stability of membrane contactors. <i>Separation and Purification Technology</i> , 2013 , 108, 65-73	8.3	38
382	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
381	Three-dimensional phase-field simulations of membrane porous structure formation by thermally induced phase separation in polymer solutions. <i>Journal of Membrane Science</i> , 2015 , 483, 104-111	9.6	37
380	Effect of membrane polymeric materials on relationship between surface pore size and membrane fouling in membrane bioreactors. <i>Applied Surface Science</i> , 2015 , 330, 351-357	6.7	37
379	Preparation and characterization of poly(ethylene-co-vinyl alcohol) membranes via thermally induced liquid-liquid phase separation. <i>Journal of Applied Polymer Science</i> , 2003 , 87, 853-860	2.9	37
378	Preparation of poly(acrylic acid)/poly(vinyl alcohol) membrane for the facilitated transport of CO ₂ . <i>Journal of Applied Polymer Science</i> , 2001 , 81, 936-942	2.9	37
377	Nonrandom numerical aberrations of chromosomes 7, 9, and 10 in DNA-diploid bladder cancer. <i>Cancer Genetics and Cytogenetics</i> , 1994 , 77, 118-24		37
376	Permeation rate and selectivity in the separation of cobalt and nickel by supported liquid membranes.. <i>Journal of Chemical Engineering of Japan</i> , 1987 , 20, 213-220	0.8	37
375	Influence of graphene oxide lateral size on the properties and performances of forward osmosis membrane. <i>Desalination</i> , 2020 , 484, 114421	10.3	36
374	Porous cellulose acetate membrane prepared by thermally induced phase separation. <i>Journal of Applied Polymer Science</i> , 2003 , 89, 3951-3955	2.9	36
373	Preparation and characterization of ECTFE hollow fiber membranes via thermally induced phase separation (TIPS). <i>Polymer</i> , 2016 , 97, 515-524	3.9	36
372	Improvement of antibiofouling performance of a reverse osmosis membrane through biocide release and adhesion resistance. <i>Separation and Purification Technology</i> , 2013 , 105, 106-113	8.3	35
371	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
370	Experimental and theoretical study of a forward osmosis hollow fiber membrane module with a cross-wound configuration. <i>Journal of Membrane Science</i> , 2016 , 504, 10-19	9.6	34
369	Improvement of the antifouling properties of poly (lactic acid) hollow fiber membranes with poly (lactic acid)-polyethylene glycol-poly (lactic acid) copolymers. <i>Desalination</i> , 2013 , 325, 37-39	10.3	34
368	Preparation of positively charged PVDF membranes with improved antibacterial activity by blending modification: Effect of change in membrane surface material properties. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2017 , 533, 133-139	5.1	34
367	Experimental and theoretical study on propylene absorption by using PVDF hollow fiber membrane contactors with various membrane structures. <i>Journal of Membrane Science</i> , 2010 , 346, 86-97	9.6	34
366	Elimination of biological fouling in seawater reverse osmosis desalination plants. <i>Desalination</i> , 2008 , 227, 295-305	10.3	34

365	Ethylene/ethane separation by facilitated transport membrane accompanied by permeation of aqueous silver nitrate solution. <i>Separation and Purification Technology</i> , 2002 , 28, 117-124	8.3	34
364	The removal of fluoride from water based on applied current and membrane types in electrodialysis. <i>Journal of Fluorine Chemistry</i> , 2016 , 191, 97-102	2.1	34
363	Effect of Molecular Weight of Draw Solute on Water Permeation in Forward Osmosis Process. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 8239-8246	3.9	33
362	Facilitated transport of CO ₂ through supported liquid membranes of various amine solutions-effects of rate and equilibrium of reaction between CO ₂ and amine-.. <i>Journal of Chemical Engineering of Japan</i> , 1997 , 30, 328-335	0.8	33
361	Extraction of ethyl and methyl esters of polyunsaturated fatty acids with aqueous silver nitrate solutions. <i>Industrial & Engineering Chemistry Research</i> , 1994 , 33, 341-345	3.9	33
360	Preparation of antifouling poly(vinylidene fluoride) membranes via different coating methods using a zwitterionic copolymer. <i>Applied Surface Science</i> , 2015 , 357, 1388-1395	6.7	32
359	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
358	Effect of the amino-group densities of functionalized ionic liquids on the facilitated transport properties for CO ₂ separation. <i>Journal of Membrane Science</i> , 2016 , 503, 148-157	9.6	32
357	Effects of operating conditions and membrane structures on the performance of hollow fiber forward osmosis membranes in pressure assisted osmosis. <i>Desalination</i> , 2015 , 365, 381-388	10.3	32
356	Effect of membrane preparation method on the outer surface roughness of cellulose acetate butyrate hollow fiber membrane. <i>Desalination</i> , 2008 , 233, 10-18	10.3	32
355	Gas separation by liquid membrane accompanied by permeation of membrane liquid through membrane physical transport. <i>Separation and Purification Technology</i> , 2001 , 24, 101-112	8.3	32
354	Diffusive permeability of ionic solutes in charged chitosan membrane. <i>Journal of Applied Polymer Science</i> , 1999 , 72, 397-404	2.9	32
353	Effect of plasma treatment on CO ₂ permeability and selectivity of poly(dimethylsiloxane) membrane. <i>Journal of Membrane Science</i> , 1995 , 99, 139-147	9.6	32
352	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
351	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
350	Reduction of fouling on poly(lactic acid) hollow fiber membranes by blending with poly(lactic acid)polyethylene glycolpoly(lactic acid) triblock copolymers. <i>Journal of Membrane Science</i> , 2012 , 415-416, 712-717	9.6	31
349	Effect of membrane surface morphology on membrane fouling with sodium alginate. <i>Journal of Membrane Science</i> , 2011 , 366, 258-265	9.6	31
348	Facilitated transport of CO ₂ through liquid membrane accompanied by permeation of carrier solution. <i>Separation and Purification Technology</i> , 2002 , 27, 25-31	8.3	31

- 347 Improved water permeability and structural stability in a polysulfone-grafted graphene oxide composite membrane used for dye separation. *Journal of Membrane Science*, **2020**, 595, 117547 9.6 31
- 346 Effect of operating conditions on biofouling in reverse osmosis membrane processes: Bacterial adhesion, biofilm formation, and permeate flux decrease. *Desalination*, **2016**, 378, 74-79 10.3 30
- 345 Effect of polydopamine coating and direct electric current application on anti-biofouling properties of anion exchange membranes in electrodialysis. *Journal of Membrane Science*, **2016**, 515, 98-108 9.6 30
- 344 Dual Superlyophobic Aliphatic Polyketone Membranes for Highly Efficient Emulsified Oil-Water Separation: Performance and Mechanism. *ACS Applied Materials & Interfaces*, **2018**, 10, 30860-30870 9.5 30
- 343 Prevention of bacterial adhesion on polyamide reverse osmosis membranes via electrostatic interactions using a cationic phosphorylcholine polymer coating. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2014**, 443, 171-176 5.1 30
- 342 Permeation of concentrated oil-in-water emulsions through a membrane pore: numerical simulation using a coupled level set and the volume-of-fluid method. *Soft Matter*, **2014**, 10, 7985-92 3.6 30
- 341 Effect of addition of polyethyleneimine on thermal stability and activity of glucose dehydrogenase. *Applied Microbiology and Biotechnology*, **1992**, 38, 203 5.7 30
- 340 Antifouling and antibacterial behavior of membranes containing quaternary ammonium and zwitterionic polymers. *Journal of Colloid and Interface Science*, **2021**, 584, 225-235 9.3 30
- 339 A thin-film composite-hollow fiber forward osmosis membrane with a polyketone hollow fiber membrane as a support. *Desalination*, **2017**, 402, 33-41 10.3 29
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