

Yinhua Wan

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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.

184 papers	5,693 citations	44 h-index	64 g-index
192 ext. papers	6,879 ext. citations	8.1 avg, IF	6.46 L-index

#	Paper	IF	Citations
184	Effects of pH and salt on nanofiltration—critical review. <i>Journal of Membrane Science</i> , 2013 , 438, 18-28	9.6	335
183	Recent development of ionic liquid membranes. <i>Green Energy and Environment</i> , 2016 , 1, 43-61	5.7	155
182	Enzyme adsorption and recycling during hydrolysis of wheat straw lignocellulose. <i>Bioresource Technology</i> , 2011 , 102, 2881-9	11	127
181	Optimization of Enzymatic Hydrolysis of Wheat Straw Pretreated by Alkaline Peroxide Using Response Surface Methodology. <i>Industrial & Engineering Chemistry Research</i> , 2009 , 48, 7346-7353	3.9	116
180	Preparation and characterization of uniform-sized chitosan microspheres containing insulin by membrane emulsification and a two-step solidification process. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006 , 50, 126-35	6	109
179	Effect of highly concentrated salt on retention of organic solutes by nanofiltration polymeric membranes. <i>Journal of Membrane Science</i> , 2011 , 372, 145-153	9.6	101
178	A two-stage ultrafiltration and nanofiltration process for recycling dairy wastewater. <i>Bioresource Technology</i> , 2011 , 102, 7437-42	11	99
177	Separation of acetone, butanol and ethanol (ABE) from dilute aqueous solutions by silicalite-1/PDMS hybrid pervaporation membranes. <i>Separation and Purification Technology</i> , 2011 , 79, 375-384	8.3	93
176	Swelling determination of W/O/W emulsion liquid membranes. <i>Journal of Membrane Science</i> , 2002 , 196, 185-201	9.6	92
175	Sharpening Nanofiltration: Strategies for Enhanced Membrane Selectivity. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 39948-39966	9.5	90
174	Preparation of insulin-loaded PLA/PLGA microcapsules by a novel membrane emulsification method and its release in vitro. <i>Colloids and Surfaces B: Biointerfaces</i> , 2006 , 51, 30-8	6	87
173	Separation of furfural from monosaccharides by nanofiltration. <i>Bioresource Technology</i> , 2011 , 102, 7111-81	11	86
172	Application of NF-RDM (nanofiltration rotating disk membrane) module under extreme hydraulic conditions for the treatment of dairy wastewater. <i>Chemical Engineering Journal</i> , 2010 , 163, 307-316	14.7	85
171	Antifouling ultrafiltration membranes made from PAN-b-PEG copolymers: Effect of copolymer composition and PEG chain length. <i>Journal of Membrane Science</i> , 2011 , 384, 44-51	9.6	81
170	Preparation and characterization of vinyltriethoxysilane (VTES) modified silicalite-1/PDMS hybrid pervaporation membrane and its application in ethanol separation from dilute aqueous solution. <i>Journal of Membrane Science</i> , 2010 , 360, 341-351	9.6	80
169	Application of response surface methodology and central composite rotatable design in optimizing the preparation conditions of vinyltriethoxysilane modified silicalite/polydimethylsiloxane hybrid pervaporation membranes. <i>Separation and Purification Technology</i> , 2010 , 71, 252-262	8.3	80
168	Modification of silicalite-1 by vinyltrimethoxysilane (VTMS) and preparation of silicalite-1 filled polydimethylsiloxane (PDMS) hybrid pervaporation membranes. <i>Separation and Purification Technology</i> , 2010 , 75, 286-294	8.3	79

167	Pretreatment of wheat straw by nonionic surfactant-assisted dilute acid for enhancing enzymatic hydrolysis and ethanol production. <i>Bioresource Technology</i> , 2010 , 101, 4875-83	11	79
166	An efficient process for lactic acid production from wheat straw by a newly isolated <i>Bacillus coagulans</i> strain IPE22. <i>Bioresource Technology</i> , 2014 , 158, 396-9	11	76
165	Recovery of linseed oil dispersed within an oil-in-water emulsion using hydrophilic membrane by rotating disk filtration system. <i>Journal of Membrane Science</i> , 2009 , 342, 70-79	9.6	72
164	Threshold flux for shear-enhanced nanofiltration: Experimental observation in dairy wastewater treatment. <i>Journal of Membrane Science</i> , 2012 , 409-410, 276-284	9.6	71
163	Membrane fouling mechanism in ultrafiltration of succinic acid fermentation broth. <i>Bioresource Technology</i> , 2012 , 116, 366-71	11	71
162	Influence of process parameters on the size distribution of PLA microcapsules prepared by combining membrane emulsification technique and double emulsion-solvent evaporation method. <i>Colloids and Surfaces B: Biointerfaces</i> , 2005 , 45, 144-53	6	69
161	Application of ultrafiltration and nanofiltration for recycling cellulase and concentrating glucose from enzymatic hydrolyzate of steam exploded wheat straw. <i>Bioresource Technology</i> , 2012 , 104, 466-72	11	66
160	Bioinspired Multifunctional Membrane for Aquatic Micropollutants Removal. <i>ACS Applied Materials & Interfaces</i> , 2016 , 8, 30511-30522	9.5	65
159	Flux behavior in clarification of chicory juice by high-shear membrane filtration: Evidence for threshold flux. <i>Journal of Membrane Science</i> , 2013 , 435, 120-129	9.6	58
158	Efficient production of acetone-butanol-ethanol (ABE) from cassava by a fermentation-pervaporation coupled process. <i>Bioresource Technology</i> , 2014 , 169, 251-257	11	56
157	Immobilization of cellulase on a core-shell structured metal-organic framework composites: Better inhibitors tolerance and easier recycling. <i>Bioresource Technology</i> , 2018 , 268, 577-582	11	55
156	Optimizing l-(+)-lactic acid production by thermophile <i>Lactobacillus plantarum</i> As.1.3 using alternative nitrogen sources with response surface method. <i>Biochemical Engineering Journal</i> , 2010 , 52, 212-219	4.2	55
155	Highly permeable biocatalytic membrane prepared by 3D modification: Metal-organic frameworks ameliorate its stability for micropollutants removal. <i>Chemical Engineering Journal</i> , 2018 , 348, 389-398	14.7	54
154	Treatment of dairy effluent by shear-enhanced membrane filtration: The role of foulants. <i>Separation and Purification Technology</i> , 2012 , 96, 194-203	8.3	54
153	Desalination of soy sauce by nanofiltration. <i>Separation and Purification Technology</i> , 2009 , 66, 429-437	8.3	54
152	Physicochemical characterization of tight nanofiltration membranes for dairy wastewater treatment. <i>Journal of Membrane Science</i> , 2018 , 547, 51-63	9.6	53
151	Refining sugarcane juice by an integrated membrane process: Filtration behavior of polymeric membrane at high temperature. <i>Journal of Membrane Science</i> , 2016 , 509, 105-115	9.6	53
150	Separation of lysozyme from chicken egg white using ultrafiltration. <i>Separation and Purification Technology</i> , 2006 , 48, 133-142	8.3	51

149	Biocatalytic Membrane Based on Polydopamine Coating: A Platform for Studying Immobilization Mechanisms. <i>Langmuir</i> , 2018 , 34, 2585-2594	4	50
148	Improving lactic acid productivity from wheat straw hydrolysates by membrane integrated repeated batch fermentation under non-sterilized conditions. <i>Bioresource Technology</i> , 2014 , 163, 160-6	11	50
147	Fabrication of high silicalite-1 content filled PDMS thin composite pervaporation membrane for the separation of ethanol from aqueous solutions. <i>Journal of Membrane Science</i> , 2017 , 524, 1-11	9.6	48
146	Removal and recovery of perfluorooctanoate from wastewater by nanofiltration. <i>Separation and Purification Technology</i> , 2015 , 145, 120-129	8.3	47
145	Treatment of high concentration phenolic waste water by liquid membrane with N503 as mobile carrier. <i>Journal of Membrane Science</i> , 1997 , 135, 263-270	9.6	46
144	High-resolution plasma protein fractionation using ultrafiltration. <i>Desalination</i> , 2002 , 144, 301-306	10.3	46
143	Removal of polycyclic aromatic hydrocarbons by nanofiltration membranes: Rejection and fouling mechanisms. <i>Journal of Membrane Science</i> , 2019 , 582, 264-273	9.6	45
142	Effect of alkali lignins with different molecular weights from alkali pretreated rice straw hydrolyzate on enzymatic hydrolysis. <i>Bioresource Technology</i> , 2016 , 200, 272-8	11	45
141	Desalination and recovery of iminodiacetic acid (IDA) from its sodium chloride mixtures by nanofiltration. <i>Journal of Membrane Science</i> , 2009 , 342, 35-41	9.6	45
140	Fouling behavior of dairy wastewater treatment by nanofiltration under shear-enhanced extreme hydraulic conditions. <i>Separation and Purification Technology</i> , 2012 , 88, 79-86	8.3	44
139	Regenerable biocatalytic nanofiltration membrane for aquatic micropollutants removal. <i>Journal of Membrane Science</i> , 2018 , 549, 120-128	9.6	44
138	Visible-Light-Activated Photocatalytic Films toward Self-Cleaning Membranes. <i>Advanced Functional Materials</i> , 2020 , 30, 2002847	15.6	43
137	A novel plasma-induced surface hydrophobization strategy for membrane distillation: Etching, dipping and grafting. <i>Journal of Membrane Science</i> , 2016 , 499, 544-554	9.6	42
136	Novel membrane-based biotechnological alternative process for succinic acid production and chemical synthesis of bio-based poly (butylene succinate). <i>Bioresource Technology</i> , 2014 , 156, 6-13	11	39
135	Loose nanofiltration membrane custom-tailored for resource recovery. <i>Chemical Engineering Journal</i> , 2021 , 409, 127376	14.7	39
134	Surface modification of silicalite-1 with alkoxysilanes to improve the performance of PDMS/silicalite-1 pervaporation membranes: Preparation, characterization and modeling. <i>Journal of Membrane Science</i> , 2016 , 499, 386-395	9.6	38
133	Continuous AcetoneButanolEthanol (ABE) Fermentation with in Situ Solvent Recovery by Silicalite-1 Filled PDMS/PAN Composite Membrane. <i>Energy & Fuels</i> , 2014 , 28, 555-562	4.1	38
132	Volatile organic compounds (VOCs) recovery from aqueous solutions via pervaporation with vinyltriethoxysilane-grafted-silicalite-1/polydimethylsiloxane mixed matrix membrane. <i>Chemical Engineering Journal</i> , 2017 , 313, 1639-1646	14.7	38

131	Concentration polarization in concentrated saline solution during desalination of iron dextran by nanofiltration. <i>Journal of Membrane Science</i> , 2010 , 363, 170-179	9.6	38
130	Membrane fouling in vacuum membrane distillation for ionic liquid recycling: Interaction energy analysis with the XDLVO approach. <i>Journal of Membrane Science</i> , 2018 , 550, 436-447	9.6	36
129	Custom-Tailoring Loose Nanofiltration Membrane for Precise Biomolecule Fractionation: New Insight into Post-Treatment Mechanisms. <i>ACS Applied Materials & Interfaces</i> , 2020 , 12, 13327-13337	9.5	35
128	Bio-oil based biorefinery strategy for the production of succinic acid. <i>Biotechnology for Biofuels</i> , 2013 , 6, 74	7.8	35
127	Mussel-inspired co-deposition to enhance bisphenol A removal in a bifacial enzymatic membrane reactor. <i>Chemical Engineering Journal</i> , 2018 , 336, 315-324	14.7	34
126	Improved performance of PDMS/silicalite-1 pervaporation membranes via designing new silicalite-1 particles. <i>Journal of Membrane Science</i> , 2015 , 493, 37-45	9.6	33
125	Parameter scanning ultrafiltration: rapid optimisation of protein separation. <i>Biotechnology and Bioengineering</i> , 2003 , 81, 673-82	4.9	33
124	Inhibitory effect of vanillin on cellulase activity in hydrolysis of cellulosic biomass. <i>Bioresource Technology</i> , 2014 , 167, 324-30	11	31
123	Flux decline control in nanofiltration of detergent wastewater by a shear-enhanced filtration system. <i>Chemical Engineering Journal</i> , 2012 , 181-182, 397-406	14.7	31
122	How Do Chemical Cleaning Agents Act on Polyamide Nanofiltration Membrane and Fouling Layer?. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 17653-17670	3.9	31
121	Drawing on Membrane Photocatalysis for Fouling Mitigation. <i>ACS Applied Materials & Interfaces</i> , 2021 , 13, 14844-14865	9.5	31
120	Separation of Sucrose and Reducing Sugar in Cane Molasses by Nanofiltration. <i>Food and Bioprocess Technology</i> , 2018 , 11, 913-925	5.1	30
119	An ultrathin, porous and in-air hydrophilic/underwater oleophobic coating simultaneously increasing the flux and antifouling property of membrane for membrane distillation. <i>Desalination</i> , 2018 , 445, 40-50	10.3	30
118	Control strategy of pH, dissolved oxygen concentration and stirring speed for enhancing L-poly (malic acid) production by <i>Aureobasidium pullulans</i> ipe-1. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 808-817	3.5	28
117	Directing filtration to narrow molecular weight distribution of oligodextran in an enzymatic membrane reactor. <i>Journal of Membrane Science</i> , 2018 , 555, 268-279	9.6	27
116	Polydopamine meets porous membrane: A versatile platform for facile preparation of membrane adsorbers. <i>Journal of Chromatography A</i> , 2016 , 1448, 121-126	4.5	27
115	A novel membrane-based integrated process for fractionation and reclamation of dairy wastewater. <i>Chemical Engineering Journal</i> , 2017 , 313, 1061-1070	14.7	27
114	Separation of monoclonal antibody alemtuzumab monomer and dimers using ultrafiltration. <i>Biotechnology and Bioengineering</i> , 2005 , 90, 422-32	4.9	26

113	Succinic acid biosynthesis from cane molasses under low pH by <i>Actinobacillus succinogenes</i> immobilized in luffa sponge matrices. <i>Bioresource Technology</i> , 2018 , 268, 45-51	11	26
112	Towards high-performance polysulfone membrane: The role of PSF-b-PEG copolymer additive. <i>Microporous and Mesoporous Materials</i> , 2017 , 241, 355-365	5.3	25
111	Plasma modification of substrate with poly(methylhydrosiloxane) for enhancing the interfacial stability of PDMS/PAN composite membrane. <i>Journal of Membrane Science</i> , 2016 , 520, 779-789	9.6	25
110	Intensification of L-poly(L-malic acid) production by <i>Aureobasidium pullulans</i> ipe-1 in the late exponential growth phase. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2012 , 39, 1073-80	4.2	24
109	Concentration of ionic liquids by nanofiltration for recycling: Filtration behavior and modeling. <i>Separation and Purification Technology</i> , 2016 , 165, 18-26	8.3	24
108	A novel process for molasses utilization by membrane filtration and resin adsorption. <i>Journal of Cleaner Production</i> , 2019 , 207, 432-443	10.3	24
107	Sustainable utilization of cane molasses by an integrated separation process: Interplay between adsorption and nanofiltration. <i>Separation and Purification Technology</i> , 2019 , 219, 16-24	8.3	23
106	Separation and concentration of ionic liquid aqueous solution by vacuum membrane distillation. <i>Journal of Membrane Science</i> , 2016 , 518, 216-228	9.6	23
105	Aquatic micro-pollutants removal with a biocatalytic membrane prepared by metal chelating affinity membrane chromatography. <i>Chemical Engineering Journal</i> , 2017 , 327, 1011-1020	14.7	23
104	NOM fouling behavior during ultrafiltration: Effect of membrane hydrophilicity. <i>Journal of Water Process Engineering</i> , 2015 , 7, 1-10	6.7	23
103	Effects of fermentation by-products and inhibitors on pervaporative recovery of biofuels from fermentation broths with novel silane modified silicalite-1/PDMS/PAN thin film composite membrane. <i>Chemical Engineering Journal</i> , 2015 , 279, 547-554	14.7	23
102	Decoloration of Molasses by Ultrafiltration and Nanofiltration: Unraveling the Mechanisms of High Sucrose Retention. <i>Food and Bioprocess Technology</i> , 2019 , 12, 39-53	5.1	23
101	Decoloration of sugarcane molasses by tight ultrafiltration: Filtration behavior and fouling control. <i>Separation and Purification Technology</i> , 2018 , 204, 66-74	8.3	22
100	Recycling cellulase from enzymatic hydrolyzate of acid treated wheat straw by electroultrafiltration. <i>Bioresource Technology</i> , 2013 , 144, 186-93	11	22
99	Fully recycling dairy wastewater by an integrated isoelectric precipitation–nanofiltration–anaerobic fermentation process. <i>Chemical Engineering Journal</i> , 2016 , 283, 476-485	14.7	21
98	Enzyme-Like Metal-Organic Frameworks in Polymeric Membranes for Efficient Removal of Aflatoxin B. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 30542-30550	9.5	21
97	Can graphene oxide improve the performance of biocatalytic membrane?. <i>Chemical Engineering Journal</i> , 2019 , 359, 982-993	14.7	21
96	Membrane chromatography for fast enzyme purification, immobilization and catalysis: A renewable biocatalytic membrane. <i>Journal of Membrane Science</i> , 2017 , 538, 68-76	9.6	20

95	Biofouling in sugarcane juice refining by nanofiltration membrane: Fouling mechanism and cleaning. <i>Journal of Membrane Science</i> , 2020 , 612, 118432	9.6	20
94	Simultaneous extraction of oil and soy isoflavones from soy sauce residue using ultrasonic-assisted two-phase solvent extraction technology. <i>Separation and Purification Technology</i> , 2014 , 128, 72-79	8.3	20
93	Nanofiltration for Decolorization: Membrane Fabrication, Applications and Challenges. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 19858-19875	3.9	20
92	Enzymatic Cascade Catalysis in a Nanofiltration Membrane: Engineering the Microenvironment by Synergism of Separation and Reaction. <i>ACS Applied Materials & Interfaces</i> , 2019 , 11, 22419-22428	9.5	19
91	Biocatalytic membrane: Go far beyond enzyme immobilization. <i>Engineering in Life Sciences</i> , 2020 , 20, 441-450	3.4	19
90	Phase separation of an acetoneButanolEthanol (ABE)Water mixture in the permeate during pervaporation of a dilute ABE solution. <i>Separation and Purification Technology</i> , 2014 , 132, 354-361	8.3	19
89	Built-up superhydrophobic composite membrane with carbon nanotubes for water desalination. <i>RSC Advances</i> , 2014 , 4, 16561	3.7	19
88	Clarification of succinic acid fermentation broth by ultrafiltration in succinic acid bioRefinery. <i>Journal of Chemical Technology and Biotechnology</i> , 2013 , 88, 444-448	3.5	18
87	A robust dually charged membrane prepared via catechol-amine chemistry for highly efficient dye/salt separation. <i>Journal of Membrane Science</i> , 2021 , 629, 119287	9.6	18
86	Nanostructured Polyphenol-Mediated Coating: a Versatile Platform for Enzyme Immobilization and Micropollutant Removal. <i>Industrial & Engineering Chemistry Research</i> , 2020 , 59, 2708-2717	3.9	17
85	Desalination of effluents with highly concentrated salt by nanofiltration: From laboratory to pilot-plant. <i>Desalination</i> , 2013 , 315, 91-99	10.3	17
84	Separation performance of novel vinyltriethoxysilane (VTES)-g-silicalite-1/PDMS/PAN thin-film composite membrane in the recovery of bioethanol from fermentation broths by pervaporation. <i>Journal of Membrane Science</i> , 2017 , 524, 132-140	9.6	17
83	Rapid concentration of protein solution by a crossflow electro-ultrafiltration process. <i>Separation and Purification Technology</i> , 2010 , 73, 310-318	8.3	17
82	Selective separation of CO ₂ using novel mixed matrix membranes based on Pebax and liquid-like nanoparticle organic hybrid materials. <i>Journal of Membrane Science</i> , 2019 , 584, 79-88	9.6	16
81	Alicyclic segments upgrade hydrogen separation performance of intrinsically microporous polyimide membranes. <i>Journal of Membrane Science</i> , 2020 , 611, 118363	9.6	16
80	High molecular weight L-poly(L-malic acid) produced by A. pullulans with Ca ²⁺ added repeated batch culture. <i>International Journal of Biological Macromolecules</i> , 2016 , 85, 192-9	7.9	16
79	Biofouling control in a membrane filtration system by a newly isolated novel quorum quenching bacterium, <i>Bacillus methylotrophicus</i> sp. WY. <i>RSC Advances</i> , 2016 , 6, 28895-28903	3.7	16
78	Improving the hydrolysis efficiency of soy sauce residue using ultrasonic probe-assisted enzymolysis technology. <i>Ultrasonics Sonochemistry</i> , 2017 , 35, 351-358	8.9	16

77	Threshold flux in concentration mode: Fouling control during clarification of molasses by ultrafiltration. <i>Journal of Membrane Science</i> , 2019 , 586, 130-139	9.6	15
76	Separation and concentration of hydroxycinnamic acids in alkaline hydrolyzate from rice straw by nanofiltration. <i>Separation and Purification Technology</i> , 2015 , 149, 315-321	8.3	15
75	Separation of protein mixtures by an integrated electro-ultrafiltration-electrodialysis process. <i>Separation and Purification Technology</i> , 2015 , 147, 32-43	8.3	15
74	Aflatoxin B1 removal by multifunctional membrane based on polydopamine intermediate layer. <i>Separation and Purification Technology</i> , 2018 , 199, 311-319	8.3	15
73	A pilot-plant test on desalination of soy sauce by nanofiltration. <i>Separation and Purification Technology</i> , 2012 , 89, 217-224	8.3	15
72	Fractionation of Lysozyme and Chicken Egg Albumin Using Ultrafiltration with 30-kDa Commercial Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2005 , 44, 7610-7616	3.9	15
71	High-level productivity of dodecanedioic acid with a newly isolated <i>Candida viswanathii</i> strain. <i>Journal of Industrial Microbiology and Biotechnology</i> , 2017 , 44, 1191-1202	4.2	14
70	Directing membrane chromatography to manufacture α -antitrypsin from human plasma fraction IV. <i>Journal of Chromatography A</i> , 2015 , 1423, 63-70	4.5	14
69	Separation of monosaccharides from pretreatment inhibitors by nanofiltration in lignocellulosic hydrolysate: Fouling mitigation by activated carbon adsorption. <i>Biomass and Bioenergy</i> , 2020 , 136, 105527	5.3	14
68	Self-Cleaning Membranes: Visible-Light-Activated Photocatalytic Films toward Self-Cleaning Membranes (Adv. Funct. Mater. 34/2020). <i>Advanced Functional Materials</i> , 2020 , 30, 2070230	15.6	14
67	Efficient γ -poly(L-malic acid) production from Jerusalem artichoke by <i>Aureobasidium pullulans</i> ipe-1 immobilized in luffa sponge matrices. <i>Bioresource Technology</i> , 2019 , 288, 121497	11	13
66	Alkali Recycling from Rice Straw Hydrolyzate by Ultrafiltration: Fouling Mechanism and Pretreatment Efficiency. <i>Industrial & Engineering Chemistry Research</i> , 2015 , 54, 7925-7932	3.9	13
65	Hydrophilic/hydrophobic Janus membranes with a dual-function surface coating for rapid and robust membrane distillation desalination. <i>Desalination</i> , 2020 , 491, 114561	10.3	13
64	Exploring the potential of lactic acid production from lignocellulosic hydrolysates with various ratios of hexose versus pentose by <i>Bacillus coagulans</i> IPE22. <i>Bioresource Technology</i> , 2018 , 261, 342-349 ¹¹	11	13
63	γ -poly(L-malic acid) production by fed-batch culture of <i>Aureobasidium pullulans</i> ipe-1 with mixed sugars. <i>Engineering in Life Sciences</i> , 2014 , 14, 180-189	3.4	13
62	Improved blood compatibility of polysulfone membrane by anticoagulant protein immobilization. <i>Colloids and Surfaces B: Biointerfaces</i> , 2019 , 175, 586-595	6	13
61	Structure-property-performance relationships of lactic acid-based deep eutectic solvents with different hydrogen bond acceptors for corn stover pretreatment. <i>Bioresource Technology</i> , 2021 , 336, 125312	11	13
60	Effectively converting carbon dioxide into succinic acid under mild pressure with <i>Actinobacillus succinogenes</i> by an integrated fermentation and membrane separation process. <i>Bioresource Technology</i> , 2018 , 266, 26-33	11	12

59	Horseradish Peroxidase Immobilized on Multifunctional Hybrid Microspheres for Aflatoxin B1 Removal: Will Enzymatic Reaction be Enhanced by Adsorption?. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 11710-11719	3.9	12
58	Facile and green fabrication of cation exchange membrane adsorber with unprecedented adsorption capacity for protein purification. <i>Journal of Chromatography A</i> , 2017 , 1521, 19-26	4.5	12
57	Dodecanedioic acid production by <i>Candida viswanathii</i> ipe-1 with co-utilization of wheat straw hydrolysates and n-dodecane. <i>Bioresource Technology</i> , 2017 , 243, 179-187	11	12
56	Fractionation of bovine serum albumin and monoclonal antibody alemtuzumab using carrier phase ultrafiltration. <i>Biotechnology and Bioengineering</i> , 2005 , 90, 303-15	4.9	12
55	Development of a new series of polyamine-type polymeric surfactants used for emulsion liquid membranes. <i>Journal of Membrane Science</i> , 2001 , 184, 49-57	9.6	12
54	Membrane-assisted L-poly(L-malic acid) production from bagasse hydrolysates by <i>Aureobasidium pullulans</i> ipe-1. <i>Bioresource Technology</i> , 2020 , 295, 122260	11	12
53	Effects of sulfonate incorporation and structural isomerism on physical and gas transport properties of soluble sulfonated polyimides. <i>Polymer</i> , 2020 , 191, 122263	3.9	11
52	Sandwich structured membrane adsorber with metal organic frameworks for aflatoxin B1 removal. <i>Separation and Purification Technology</i> , 2020 , 246, 116907	8.3	11
51	Modification of polyacrylonitrile membranes via plasma treatment followed by polydimethylsiloxane coating for recovery of ethyl acetate from aqueous solution through vacuum membrane distillation. <i>Separation and Purification Technology</i> , 2018 , 197, 178-188	8.3	11
50	High-titer-ethanol production from cellulosic hydrolysate by an engineered strain of <i>Saccharomyces cerevisiae</i> during an in situ removal process reducing the inhibition of ethanol on xylose metabolism. <i>Process Biochemistry</i> , 2016 , 51, 967-972	4.8	11
49	AgBF ₄ /[emim][BF ₄] supported ionic liquid membrane for carbon monoxide/nitrogen separation. <i>Journal of Energy Chemistry</i> , 2019 , 29, 31-39	12	11
48	Separation of human serum albumin and human immunoglobulins using carrier phase ultrafiltration. <i>Biotechnology Progress</i> , 2004 , 20, 1103-12	2.8	9
47	Ferric ions mediated defects narrowing of graphene oxide nanofiltration membrane for robust removal of organic micropollutants. <i>Chemical Engineering Journal</i> , 2021 , 411, 128587	14.7	9
46	Targeted modification of polyamide nanofiltration membrane for efficient separation of monosaccharides and monovalent salt. <i>Journal of Membrane Science</i> , 2021 , 628, 119250	9.6	9
45	One step open fermentation for lactic acid production from inedible starchy biomass by thermophilic <i>Bacillus coagulans</i> IPE22. <i>Bioresource Technology</i> , 2019 , 272, 398-406	11	9
44	Facile preparation of salt-tolerant anion-exchange membrane adsorber using hydrophobic membrane as substrate. <i>Journal of Chromatography A</i> , 2017 , 1490, 54-62	4.5	8
43	From molasses to syrup: Engineering ultrafiltration membrane surface to improve invertase reusability. <i>Journal of Membrane Science</i> , 2020 , 610, 118287	9.6	8
42	Alginate dialdehyde meets nylon membrane: a versatile platform for facile and green fabrication of membrane adsorbers. <i>Journal of Materials Chemistry B</i> , 2018 , 6, 1640-1649	7.3	8

41	Fabrication of PES-based membranes with a high and stable desalination performance for membrane distillation. <i>RSC Advances</i> , 2016 , 6, 107840-107850	3.7	8
40	High-performance PDMS membranes for pervaporative removal of VOCs from water: The role of alkyl grafting. <i>Journal of Applied Polymer Science</i> , 2016 , 133,	2.9	8
39	New insights into effect of alkaline cleaning on fouling behavior of polyamide nanofiltration membrane for wastewater treatment. <i>Science of the Total Environment</i> , 2021 , 780, 146632	10.2	8
38	A novel paradigm of photocatalytic cleaning for membrane fouling removal. <i>Journal of Membrane Science</i> , 2022 , 641, 119859	9.6	8
37	One-step purification of α -antitrypsin by regulating polyelectrolyte ligands on mussel-inspired membrane adsorber. <i>Journal of Membrane Science</i> , 2017 , 528, 155-162	9.6	7
36	Toward understanding the key enzymes involved in γ -poly (L-malic acid) biosynthesis by ipe-1. <i>Engineering in Life Sciences</i> , 2018 , 18, 379-386	3.4	7
35	Preparation of Hypophosphorous Acid by Bipolar Membrane Electrodialysis: Process Optimization and Phosphorous Acid Minimization. <i>Industrial & Engineering Chemistry Research</i> , 2019 , 58, 21855-21863	3.9	7
34	Inhibition of cellulase, β -glucosidase, and xylanase activities and enzymatic hydrolysis of dilute acid pretreated wheat straw by acetone-butanol-ethanol fermentation products. <i>Environmental Progress and Sustainable Energy</i> , 2014 , 33, 497-503	2.5	7
33	Green production of sugar by membrane technology: How far is it from industrialization?. <i>Green Chemical Engineering</i> , 2021 , 2, 27-43	3	7
32	Surface functionalization of nanofiltration membrane by catechol-amine codeposition for enhancing antifouling performance. <i>Journal of Membrane Science</i> , 2021 , 635, 119451	9.6	7
31	Highly permeable acid-resistant nanofiltration membrane based on a novel sulfonamide aqueous monomer for efficient acidic wastewater treatment. <i>Chemical Engineering Journal</i> , 2021 , 425, 131791	14.7	7
30	Catalytic production of 5-hydroxymethylfurfural from sucrose and molasses by aluminum chloride in green aqueous γ -valerolactone system. <i>Biomass Conversion and Biorefinery</i> , 2020 , 11, 1931	2.3	6
29	Separation of human serum albumin and polyethylene glycol by electro-ultrafiltration. <i>Biochemical Engineering Journal</i> , 2016 , 109, 127-136	4.2	6
28	Deconstruction and reconstitution of fouling layer in decolorization of cane juice by nanofiltration membrane 2021 , 1, 100010		6
27	Improving β -dodecanedioic acid productivity from n-dodecane and hydrolysate of <i>Candida</i> cells by membrane integrated repeated batch fermentation. <i>Bioresource Technology</i> , 2018 , 260, 9-15	11	5
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21	Role of oxygen supply in β -dodecanedioic acid biosynthesis from n-dodecane by ipe-1: Effect of stirring speed and aeration. <i>Engineering in Life Sciences</i> , 2018 , 18, 196-203	3.4	4
20	Evaluation of fouling and concentration polarisation during protein ultrafiltration by pulsed sample injection technique. <i>Desalination</i> , 2006 , 199, 539-540	10.3	4
19	A new technique for quick production of ammonium paratungstate (APT) crystals by a liquid membrane. <i>Journal of Membrane Science</i> , 1995 , 105, 55-62	9.6	4
18	Simultaneous decolorization and deproteinization of β -dodecanedioic acid fermentation broth by integrated ultrafiltration and adsorption treatments. <i>Bioprocess and Biosystems Engineering</i> , 2018 , 41, 1271-1281	3.7	4
17	Strategy to separate lysozyme and ovalbumin from CEW using UF. <i>Desalination</i> , 2006 , 200, 477-479	10.3	3
16	Tuning pore size and surface charge of poly(piperazinamide) nanofiltration membrane by enhanced chemical cleaning treatment. <i>Journal of Membrane Science</i> , 2022 , 643, 120054	9.6	3
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13	One step separation of Aureobasidium pullulans from β -poly(L-malic acid) fermentation broth by membranes technology. <i>Journal of Chemical Technology and Biotechnology</i> , 2017 , 92, 845-853	3.5	2
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