

Xianshe Feng

List of Publications by Year in descending order

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142
papers

7,406
citations

41258

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60497

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143
docs citations

143
times ranked

6056
citing authors

#	ARTICLE	IF	CITATIONS
1	Liquid Separation by Membrane Pervaporation: A Review. <i>Industrial & Engineering Chemistry Research</i> , 1997, 36, 1048-1066.	1.8	741
2	Estimation of activation energy for permeation in pervaporation processes. <i>Journal of Membrane Science</i> , 1996, 118, 127-131.	4.1	271
3	Separation of acetone-butanol-ethanol (ABE) from dilute aqueous solutions by pervaporation. <i>Separation and Purification Technology</i> , 2005, 42, 273-282.	3.9	242
4	Thin film composite membranes embedded with graphene oxide for water desalination. <i>Desalination</i> , 2016, 386, 67-76.	4.0	220
5	Modification of poly(vinylidene fluoride) ultrafiltration membranes with poly(vinyl alcohol) for fouling control in drinking water treatment. <i>Water Research</i> , 2009, 43, 4559-4568.	5.3	192
6	Synthesis of lignin-based polyurethane/graphene oxide foam and its application as an absorbent for oil spill clean-ups and recovery. <i>Chemical Engineering Journal</i> , 2017, 323, 191-202.	6.6	172
7	Surface modification of thin film composite polyamide membranes by electrostatic self deposition of polycations for improved fouling resistance. <i>Separation and Purification Technology</i> , 2009, 66, 287-294.	3.9	171
8	Thin film composite nanofiltration membranes assembled layer-by-layer via interfacial polymerization from polyethylenimine and trimesoyl chloride. <i>Journal of Membrane Science</i> , 2014, 472, 141-153.	4.1	152
9	Removal of heavy metals from water using polyvinylamine by polymer-enhanced ultrafiltration and flocculation. <i>Separation and Purification Technology</i> , 2016, 158, 124-136.	3.9	145
10	Use of pervaporation to separate butanol from dilute aqueous solutions: Effects of operating conditions and concentration polarization. <i>Journal of Membrane Science</i> , 2008, 323, 428-435.	4.1	129
11	Sericin/poly(vinyl alcohol) blend membranes for pervaporation separation of ethanol/water mixtures. <i>Journal of Membrane Science</i> , 2007, 295, 71-79.	4.1	125
12	A novel potential-responsive ion exchange film system for heavy metal removal. <i>Journal of Materials Chemistry A</i> , 2014, 2, 10263-10272.	5.2	117
13	Pervaporation with chitosan membranes: separation of dimethyl carbonate/methanol/water mixtures. <i>Journal of Membrane Science</i> , 2002, 209, 493-508.	4.1	111
14	Composite membranes comprising of polyvinylamine-poly(vinyl alcohol) incorporated with carbon nanotubes for dehydration of ethylene glycol by pervaporation. <i>Journal of Membrane Science</i> , 2012, 417-418, 34-44.	4.1	111
15	Gas permeation through water-swollen hydrogel membranes. <i>Journal of Membrane Science</i> , 2008, 310, 66-75.	4.1	104
16	Polymer-enhanced ultrafiltration: Fundamentals, applications and recent developments. <i>Journal of Membrane Science</i> , 2019, 586, 53-83.	4.1	99
17	CO ₂ /N ₂ Separation by Poly(Ether Block Amide) Thin Film Hollow Fiber Composite Membranes. <i>Industrial & Engineering Chemistry Research</i> , 2005, 44, 6874-6882.	1.8	98
18	Pervaporative separation of n-butanol from dilute aqueous solutions using silicalite-filled poly(dimethyl siloxane) membranes. <i>Journal of Membrane Science</i> , 2009, 339, 120-125.	4.1	95

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19	Vacuum membrane distillation for desalination of water using hollow fiber membranes. <i>Journal of Membrane Science</i> , 2014, 455, 131-142.	4.1	92
20	Layer-by-layer assembly of polyethyleneimine/graphene oxide membranes for desalination of high-salinity water via pervaporation. <i>Separation and Purification Technology</i> , 2020, 234, 116077.	3.9	91
21	Layer-by-layer self-assembled chitosan/PAA nanofiltration membranes. <i>Separation and Purification Technology</i> , 2018, 207, 142-150.	3.9	90
22	Membranes comprising of alkanolamines incorporated into poly(vinyl alcohol) matrix for CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2007, 303, 54-63.	4.1	87
23	Preparation and properties of trimesoyl chloride crosslinked poly(vinyl alcohol) membranes for pervaporation dehydration of isopropanol. <i>Journal of Membrane Science</i> , 2006, 286, 245-254.	4.1	85
24	Use of pervaporation for the separation of phenol from dilute aqueous solutions. <i>Journal of Membrane Science</i> , 2009, 335, 96-102.	4.1	84
25	Separation of dimethyl carbonate/methanol/water mixtures by pervaporation using crosslinked chitosan membranes. <i>Separation and Purification Technology</i> , 2003, 31, 129-140.	3.9	82
26	Surface modification of thin-film-composite polyamide membranes for improved reverse osmosis performance. <i>Journal of Membrane Science</i> , 2011, 370, 116-123.	4.1	79
27	Morphology development and characterization of the phase-separated structure resulting from the thermal-induced phase separation phenomenon in polymer solutions under a temperature gradient. <i>Chemical Engineering Science</i> , 2004, 59, 1491-1504.	1.9	76
28	Development of an antibacterial copper (II)-chelated polyacrylonitrile ultrafiltration membrane. <i>Journal of Membrane Science</i> , 2012, 413-414, 62-69.	4.1	74
29	Studies of a membrane reactor: Esterification facilitated by pervaporation. <i>Chemical Engineering Science</i> , 1996, 51, 4673-4679.	1.9	72
30	Preparation and performance of asymmetric polyetherimide membranes for isopropanol dehydration by pervaporation. <i>Journal of Membrane Science</i> , 1996, 109, 165-172.	4.1	71
31	Thin film composite membranes comprising of polyamide and polydopamine for dehydration of ethylene glycol by pervaporation. <i>Journal of Membrane Science</i> , 2015, 493, 622-635.	4.1	70
32	Removal of mercury (II) from wastewater by polyvinylamine-enhanced ultrafiltration. <i>Separation and Purification Technology</i> , 2015, 154, 1-10.	3.9	70
33	Dehydration of Isopropanol by Pervaporation Using Aromatic Polyetherimide Membranes. <i>Separation Science and Technology</i> , 1993, 28, 2035-2048.	1.3	69
34	Poly(N,N-dimethylaminoethyl methacrylate)/polysulfone composite membranes for gas separations. <i>Journal of Membrane Science</i> , 2006, 279, 76-85.	4.1	67
35	Thin film composite nanofiltration membranes fabricated from polymeric amine polyethylenimine imbedded with monomeric amine piperazine for enhanced salt separations. <i>Reactive and Functional Polymers</i> , 2015, 86, 168-183.	2.0	67
36	A novel method of preparing ultrathin poly(ether block amide) membranes. <i>Journal of Membrane Science</i> , 2004, 235, 43-52.	4.1	66

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37	Concentration polarization in pervaporation separation processes. <i>Journal of Membrane Science</i> , 1994, 92, 201-208.	4.1	64
38	Trimesoyl chloride crosslinked chitosan membranes for CO ₂ /N ₂ separation and pervaporation dehydration of isopropanol. <i>Journal of Membrane Science</i> , 2007, 306, 36-46.	4.1	64
39	Poly(p-phenylene terephthamide) embedded in a polysulfone as the substrate for improving compaction resistance and adhesion of a thin film composite polyamide membrane. <i>Journal of Materials Chemistry A</i> , 2017, 5, 13610-13624.	5.2	63
40	Unexpectedly Strong Size-Sieving Ability in Carbonized Polybenzimidazole for Membrane H ₂ /CO ₂ Separation. <i>ACS Applied Materials & Interfaces</i> , 2019, 11, 47365-47372.	4.0	63
41	Synthetic 6FDA-ODA copolyimide membranes for gas separation and pervaporation: Functional groups and separation properties. <i>Polymer</i> , 2007, 48, 5355-5368.	1.8	58
42	A study of thermodynamics and kinetics pertinent to formation of PVDF membranes by phase inversion. <i>Desalination</i> , 2013, 309, 156-164.	4.0	57
43	Propylene separation from nitrogen by poly(ether block amide) composite membranes. <i>Journal of Membrane Science</i> , 2006, 279, 645-654.	4.1	56
44	Gas Permeation Through Poly(Ether Block Amide) (PEBAX 2533) Block Copolymer Membranes. <i>Separation Science and Technology</i> , 2005, 39, 149-164.	1.3	54
45	Metal sericin complexation and ultrafiltration of heavy metals from aqueous solution. <i>Chemical Engineering Journal</i> , 2014, 244, 446-456.	6.6	53
46	Modification of formaldehyde-melamine-sodium bisulfite copolymer foam and its application as effective sorbents for clean up of oil spills. <i>Chemical Engineering Science</i> , 2017, 160, 384-395.	1.9	53
47	Effectiveness of membranes and hybrid membrane processes in comparison with absorption using amines for post-combustion CO ₂ capture. <i>International Journal of Greenhouse Gas Control</i> , 2014, 28, 248-256.	2.3	52
48	Interfacially formed poly(N,N-dimethylaminoethyl methacrylate)/polysulfone composite membranes for CO ₂ /N ₂ separation. <i>Journal of Membrane Science</i> , 2007, 290, 19-28.	4.1	51
49	Separation of organic compounds from water by pervaporation in the production of n-butyl acetate via esterification by reactive distillation. <i>Journal of Membrane Science</i> , 2005, 256, 193-201.	4.1	50
50	Self-assembled nano-structured polyelectrolyte composite membranes for pervaporation. <i>Materials Science and Engineering C</i> , 2006, 26, 1-8.	3.8	50
51	Pervaporative desalination of high-salinity water. <i>Chemical Engineering Research and Design</i> , 2018, 136, 154-164.	2.7	49
52	Synthesis of Polyurethane Foams Loaded with TiO ₂ Nanoparticles and Their Modification for Enhanced Performance in Oil Spill Cleanup. <i>Industrial & Engineering Chemistry Research</i> , 2018, 57, 8918-8926.	1.8	49
53	Air separation by integrally asymmetric hollow-fiber membranes. <i>AIChE Journal</i> , 1999, 45, 2142-2152.	1.8	48
54	Resistance model approach to asymmetric polyetherimide membranes for pervaporation of isopropanol/water mixtures. <i>Journal of Membrane Science</i> , 1993, 84, 15-27.	4.1	46

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55	Improving the performance of TFC membranes via chelation and surface reaction: applications in water desalination. <i>Journal of Materials Chemistry A</i> , 2016, 4, 6620-6629.	5.2	45
56	Desalination of high salinity brackish water by an NF-RO hybrid system. <i>Desalination</i> , 2020, 491, 114445.	4.0	45
57	Separation of carbon dioxide from nitrogen using diethanolamine-impregnated poly(vinyl alcohol) membranes. <i>Separation and Purification Technology</i> , 2010, 71, 205-213.	3.9	43
58	A sol-gel dip/spin coating method to prepare titanium oxide films. <i>Thin Solid Films</i> , 2013, 548, 34-39.	0.8	43
59	A Computational Study into Thermally Induced Phase Separation in Polymer Solutions under a Temperature Gradient. <i>Macromolecular Theory and Simulations</i> , 2002, 11, 996-1005.	0.6	42
60	Formation of a thin and continuous MOF membrane with 2-D MOF nanosheets as seeds via layer-by-layer growth. <i>Chemical Communications</i> , 2019, 55, 10146-10149.	2.2	42
61	Layer-by-layer assembled membranes from graphene oxide and polyethyleneimine for ethanol and isopropanol dehydration. <i>Chemical Engineering Science</i> , 2020, 216, 115488.	1.9	42
62	Modification of membrane surfaces via microswelling for fouling control in drinking water treatment. <i>Journal of Membrane Science</i> , 2015, 475, 488-495.	4.1	41
63	Improving the stability of layer-by-layer self-assembled membranes for dehydration of alcohol and diol. <i>Journal of Membrane Science</i> , 2013, 444, 22-31.	4.1	40
64	Effects of chlorine exposure on nanofiltration performance of polyamide membranes. <i>Journal of Membrane Science</i> , 2015, 487, 256-270.	4.1	40
65	Layer-by-layer self-assembled polyelectrolyte membranes for solvent dehydration by pervaporation. <i>Materials Science and Engineering C</i> , 2007, 27, 612-619.	3.8	39
66	Sorption, diffusion, and permeation of light olefins in poly(ether block amide) membranes. <i>Chemical Engineering Science</i> , 2006, 61, 6142-6153.	1.9	38
67	Removal of phenolic contaminants from water by pervaporation. <i>Journal of Membrane Science</i> , 2021, 623, 119043.	4.1	38
68	Silk fibroin films for potential applications in controlled release. <i>Reactive and Functional Polymers</i> , 2017, 116, 57-68.	2.0	37
69	Separation of isopropanol from water by pervaporation using silicone-based membranes. <i>Journal of Membrane Science</i> , 1992, 74, 171-181.	4.1	36
70	A Computational Study of the Polymerization-Induced Phase Separation Phenomenon in Polymer Solutions under a Temperature Gradient. <i>Macromolecular Theory and Simulations</i> , 2003, 12, 413-424.	0.6	36
71	Using poly(N,N-dimethylaminoethyl methacrylate)/polyacrylonitrile composite membranes for gas dehydration and humidification. <i>Chemical Engineering Science</i> , 2010, 65, 4672-4681.	1.9	36
72	Substrate resistance in composite membranes for organic vapour/gas separations. <i>Journal of Membrane Science</i> , 2009, 338, 153-160.	4.1	35

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73	Thin-film-composite membranes comprising of self-assembled polyelectrolytes for separation of water from ethylene glycol by pervaporation. <i>Journal of Membrane Science</i> , 2010, 352, 197-204.	4.1	35
74	Superlight Adsorbent Sponges Based on Graphene Oxide Cross-Linked with Poly(vinyl alcohol) for Continuous Flow Adsorption. <i>ACS Applied Materials & Interfaces</i> , 2018, 10, 21672-21680.	4.0	34
75	Self-assembled membranes from polyethylenimine and graphene oxide for pervaporation dehydration of ethylene glycol. <i>Journal of Membrane Science</i> , 2020, 616, 118583.	4.1	34
76	Pervaporation of Water/Ethanol Mixtures by an Aromatic Polyetherimide Membrane. <i>Separation Science and Technology</i> , 1992, 27, 1583-1597.	1.3	33
77	A study of silicone rubber/polysulfone composite membranes: correlating H ₂ /N ₂ and O ₂ /N ₂ permselectivities. <i>Separation and Purification Technology</i> , 2002, 27, 211-223.	3.9	33
78	Permselectivity, solubility and diffusivity of propyl propionate/water mixtures in poly(ether block) Tj ETQq0 0 0 rgBT/Overlock 10 Tf 50 5	4.1	33
79	Separation of volatile organic compound/nitrogen mixtures by polymeric membranes. <i>Industrial & Engineering Chemistry Research</i> , 1993, 32, 533-539.	1.8	32
80	Integrated membrane/adsorption process for gas separation. <i>Chemical Engineering Science</i> , 1998, 53, 1689-1698.	1.9	31
81	Separation of organic vapor from air by aromatic polyimide membranes. <i>Journal of Applied Polymer Science</i> , 1991, 43, 1071-1079.	1.3	30
82	Studies on solvent evaporation and polymer precipitation pertinent to the formation of asymmetric polyetherimide membranes. <i>Journal of Applied Polymer Science</i> , 1995, 57, 613-621.	1.3	30
83	Modeling SO ₂ absorption into water accompanied with reversible reaction in a hollow fiber membrane contactor. <i>Chemical Engineering Science</i> , 2016, 156, 136-146.	1.9	29
84	Separation of VOCs from N ₂ using poly(ether block amide) membranes. <i>Canadian Journal of Chemical Engineering</i> , 2009, 87, 456-465.	0.9	28
85	Using genipin as a "green" crosslinker to fabricate chitosan membranes for pervaporative dehydration of isopropanol. <i>Separation and Purification Technology</i> , 2020, 244, 116843.	3.9	28
86	Simulation of binary gas separation with asymmetric hollow fibre membranes and case studies of air separation. <i>Canadian Journal of Chemical Engineering</i> , 2012, 90, 1253-1268.	0.9	27
87	Batch process of polymer-enhanced ultrafiltration to recover mercury (II) from wastewater. <i>Journal of Membrane Science</i> , 2016, 514, 229-240.	4.1	25
88	A study of gas transport through interfacially formed poly(N,N-dimethylaminoethyl methacrylate) membranes. <i>Chemical Engineering Journal</i> , 2010, 156, 33-39.	6.6	24
89	Treatment of Brackish Water RO Brine via Bipolar Membrane Electrodialysis. <i>Industrial & Engineering Chemistry Research</i> , 2021, 60, 3115-3129.	1.8	22
90	Hollow-fiber-based adsorbents for gas separation by pressure-swing adsorption. <i>AIChE Journal</i> , 1998, 44, 1555-1562.	1.8	21

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91	Pressure swing permeation: Novel process for gas separation by membranes. <i>AIChE Journal</i> , 2000, 46, 724-733.	1.8	18
92	Development of hollow fiber membrane systems for nitrogen generation from combustion exhaust gas. <i>Journal of Membrane Science</i> , 2000, 176, 197-207.	4.1	18
93	Synthesis and Properties of 6FDA- <i>o</i> -MDA Copolyimide Membranes: Effects of Diamines and Dianhydrides on Gas Separation and Pervaporation Properties. <i>Macromolecular Chemistry and Physics</i> , 2007, 208, 2665-2676.	1.1	18
94	Thermodynamic and mechanistic studies on recovering phenol crystals from dilute aqueous solutions using pervaporation-crystallization coupling (PVCC) system. <i>Chemical Engineering Science</i> , 2015, 127, 106-114.	1.9	18
95	Modelling of multicomponent gas separation with asymmetric hollow fibre membranes methane enrichment from biogas. <i>Canadian Journal of Chemical Engineering</i> , 2013, 91, 1092-1102.	0.9	17
96	Pervaporation-assisted desalination of seawater reverse osmosis brine. <i>Separation and Purification Technology</i> , 2022, 290, 120820.	3.9	17
97	2,2-Bis[4-(3,4-dicarboxyphenoxy) phenyl]propane dianhydride (BPADA)-based polyimide membranes for pervaporation dehydration of isopropanol: Characterization and comparison with 4,4'-bis(hexafluoroisopropylidene) diphthalic anhydride (6FDA)-based polyimide membranes. <i>Journal of Applied Polymer Science</i> , 2008, 110, 283-296.	1.3	15
98	Recovering phenol as high purity crystals from dilute aqueous solutions by pervaporation. <i>Chemical Engineering Science</i> , 2014, 108, 183-187.	1.9	15
99	Use of nanofiltration to reject cobalt (II) from ammoniacal solutions involved in absorption of SO ₂ /NO. <i>Chemical Engineering Science</i> , 2016, 145, 97-107.	1.9	15
100	Hydrophobic surface modification of FMSS and its application as effective sorbents for oil spill clean-ups and recovery. <i>AIChE Journal</i> , 2017, 63, 4090-4102.	1.8	15
101	Synthesis and Modification of Polyurethane Foam Doped with Multi-walled Carbon Nanotubes for Cleaning up Spilled Oil from Water. <i>Journal of Polymers and the Environment</i> , 2021, 29, 1271-1286.	2.4	15
102	Green extraction of perilla volatile organic compounds by pervaporation. <i>Separation and Purification Technology</i> , 2021, 261, 118281.	3.9	15
103	Permeate pressure build-up in shellside fed hollow fiber pervaporation membranes. <i>Canadian Journal of Chemical Engineering</i> , 1995, 73, 833-843.	0.9	14
104	The synthesis of super-hydrophilic and acid-proof Ge-ZSM-5 membranes by simultaneous incorporation of Ge and Al into a Silicalite-1 framework. <i>Journal of Membrane Science</i> , 2014, 468, 202-208.	4.1	14
105	Extraction of dissolved methane from aqueous solutions by membranes: Modelling and parametric studies. <i>Journal of Membrane Science</i> , 2020, 596, 117594.	4.1	14
106	Micellar Enhanced Ultrafiltration of Organic Dyes. <i>Separation Science and Technology</i> , 2013, 48, 1315-1323.	1.3	13
107	Synthetic 6FDA- <i>o</i> -ODA copolyimide membranes for gas separation and pervaporation: Correlation of separation properties with diamine monomers. <i>Polymer Engineering and Science</i> , 2008, 48, 795-805.	1.5	12
108	Modeling of Esterification in a Batch Reactor Coupled with Pervaporation for Production of n-Butyl Acetate. <i>Chinese Journal of Catalysis</i> , 2010, 31, 999-1005.	6.9	12

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109	Kinetics of the absorption of carbon dioxide into aqueous ammonia solutions. <i>AIChE Journal</i> , 2016, 62, 3673-3684.	1.8	12
110	Permeability, solubility, and diffusivity of aniline in poly(ether-b-amide) membranes pertaining to aniline removal from aqueous solutions by pervaporation and sorption. <i>Journal of Membrane Science</i> , 2022, 642, 120006.	4.1	12
111	Experimental and modelling studies of pervaporative removal of odorous diacetyl and S-methylthiobutanoate from aqueous solutions using PEBA membrane. <i>Separation and Purification Technology</i> , 2018, 200, 1-10.	3.9	11
112	Model fitting of sorption kinetics data: Misapplications overlooked and their rectifications. <i>AIChE Journal</i> , 2018, 64, 1793-1805.	1.8	11
113	An improved approach for determining permeability and diffusivity relevant to controlled release. <i>Chemical Engineering Science</i> , 2010, 65, 5921-5928.	1.9	10
114	Novel affinity membranes with macrocyclic spacer arms synthesized via click chemistry for lysozyme binding. <i>Journal of Hazardous Materials</i> , 2017, 327, 97-107.	6.5	10
115	Chitosan/sericin blend membranes for adsorption of bovine serum albumin. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 954-960.	0.9	10
116	Perstraction of phenolic compounds via nonporous PEBA membranes. <i>Separation and Purification Technology</i> , 2021, 257, 117928.	3.9	10
117	Thermodynamic functions of metal-sericin complexation in ultrafiltration study. <i>Journal of Membrane Science</i> , 2014, 470, 1-8.	4.1	9
118	Extraction and concentration of glutathione from yeast by membranes. <i>Canadian Journal of Chemical Engineering</i> , 2022, 100, .	0.9	9
119	Analysis of permeate pressure build-up effects on separation performance of asymmetric hollow fiber membranes. <i>Chemical Engineering Science</i> , 2013, 104, 849-856.	1.9	8
120	Pressure-vacuum swing permeation: A novel process mode for membrane separation of gases. <i>Separation and Purification Technology</i> , 2014, 125, 301-310.	3.9	8
121	Dual-Stimuli-Responsive Cross-Linked Graphene Oxide/Poly(vinyl alcohol) Membranes with Anisotropic Liquid Penetration Behaviors. <i>ACS Applied Polymer Materials</i> , 2019, 1, 3413-3421.	2.0	8
122	Concentration of potassium acetate solutions via sweeping gas pervaporation using TFC membranes comprising of a PDA sublayer and PEI/PAA bilayers. <i>Separation and Purification Technology</i> , 2021, 277, 119429.	3.9	8
123	Regeneration of cobalt complexes by thermal decomposition and acid treatment for NO absorption. <i>Chemical Engineering Journal</i> , 2017, 315, 233-242.	6.6	7
124	Preparation of erbium ion-doped TiO ₂ films and the study of their photocatalytic activity under simulated solar light. <i>Journal of Semiconductors</i> , 2017, 38, 113004.	2.0	7
125	Carbon molecular sieve membranes for natural gas purification: Role of surface flow. <i>Canadian Journal of Chemical Engineering</i> , 2020, 98, 775-784.	0.9	6
126	Preparation of superhydrophobic and superoleophilic polyurethane foam for oil spill cleanup. <i>Journal of Macromolecular Science - Pure and Applied Chemistry</i> , 2021, 58, 758-768.	1.2	6

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127	Assessment of pervaporative concentration of dairy solutions vs ultrafiltration, nanofiltration and reverse osmosis. <i>Separation and Purification Technology</i> , 2022, 292, 120990.	3.9	6
128	Development of hollow fiber membrane systems for nitrogen generation from combustion exhaust gas Part II: Full-scale module test and membrane stability. <i>Journal of Membrane Science</i> , 2002, 202, 195-204.	4.1	5
129	Preparation and characterization of poly(tetrafluoroethylene-cohexafluoropropylene) (FEP) hollow fiber membranes for desalination. <i>Desalination and Water Treatment</i> , 2013, 51, 3948-3953.	1.0	5
130	Membrane distillation enhanced by an asymmetric electric field. <i>AIChE Journal</i> , 2014, 60, 2307-2313.	1.8	5
131	Preparation and characterization of attapulgite-supported phase change energy storage materials. <i>RSC Advances</i> , 2022, 12, 15180-15189.	1.7	5
132	Organic Vapor/Gas Mixture Separation by Membrane-A Parametric Study. <i>Separation Science and Technology</i> , 1992, 27, 2109-2119.	1.3	4
133	Ethylene/propylene separation using mixed matrix membranes of poly (ether block amide)/nano-zeolite (NaY or NaA). <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 576-586.	1.2	4
134	Co-depositing polyvinylamine and dopamine to enhance membrane performance for concentration of KAc solutions via sweeping air pervaporation. <i>Journal of Membrane Science</i> , 2022, 656, 120664.	4.1	4
135	Membrane gas dehydration in a pressure-electric coupled field. <i>Journal of Membrane Science</i> , 2015, 493, 444-451.	4.1	3
136	Unsteady state cyclic pressure-vacuum swing permeation for low pressure niche gas separation applications. <i>Chemical Engineering Research and Design</i> , 2016, 109, 505-512.	2.7	3
137	A field study of desalination of high-salinity surface brackish water via an RO-NF hybrid system. <i>Chemical Engineering Research and Design</i> , 2022, 182, 133-144.	2.7	3
138	Hollow fiber and spiral wound contactors for fluid/particle contact and interaction. <i>Chemical Engineering Communications</i> , 2002, 189, 247-267.	1.5	2
139	Synthesis of hydrophilic acid-resistant Ge-ZSM-5 membranes via secondary growth method using silicalite-1 zeolite as seeds. <i>Chemical Research in Chinese Universities</i> , 2017, 33, 12-16.	1.3	2
140	Use of fibroin polypeptide from silk processing waste as an effective biosorbent for heavy metal removal. <i>Canadian Journal of Chemical Engineering</i> , 2021, 99, .	0.9	2
141	Salt transport in polymeric pervaporation membrane. <i>Chinese Journal of Chemical Engineering</i> , 2020, 28, 758-765.	1.7	1
142	Measuring the permeabilities of binary gas mixtures with a novel time-lag technique. <i>Canadian Journal of Chemical Engineering</i> , 0, , .	0.9	1