

# Toraj Mohammadi

## List of Publications by Year in descending order

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386  
papers

16,638  
citations

11608

70  
h-index

30848

102  
g-index

393  
all docs

393  
docs citations

393  
times ranked

11193  
citing authors

#	ARTICLE	IF	CITATIONS
1	Adsorption of divalent heavy metal ions from water using carbon nanotube sheets. <i>Journal of Hazardous Materials</i> , 2011, 185, 140-147.	6.5	629
2	Ceramic membrane performance in microfiltration of oily wastewater. <i>Desalination</i> , 2011, 265, 222-228.	4.0	287
3	Sea water desalination using electro dialysis. <i>Desalination</i> , 2008, 221, 440-447.	4.0	256
4	Superhydrophilic and underwater superoleophobic membranes - A review of synthesis methods. <i>Progress in Polymer Science</i> , 2019, 98, 101166.	11.8	243
5	Permeate flux decline during UF of oily wastewater: Experimental and modeling. <i>Desalination</i> , 2010, 251, 153-160.	4.0	223
6	Modeling of metal ion removal from wastewater by electro dialysis. <i>Separation and Purification Technology</i> , 2005, 41, 73-82.	3.9	192
7	Evaluation of the chemical stability of some membranes in vanadium solution. <i>Journal of Applied Electrochemistry</i> , 1997, 27, 153-160.	1.5	181
8	CFD simulation of natural gas sweetening in a gas-liquid hollow-fiber membrane contactor. <i>Chemical Engineering Journal</i> , 2011, 168, 1217-1226.	6.6	180
9	Effect of PEG additive and coagulation bath temperature on the morphology, permeability and thermal/chemical stability of asymmetric CA membranes. <i>Desalination</i> , 2010, 262, 72-78.	4.0	178
10	Effect of preparation variables on morphology and pure water permeation flux through asymmetric cellulose acetate membranes. <i>Journal of Membrane Science</i> , 2009, 326, 627-634.	4.1	176
11	Cellulose acetate (CA)/polyvinylpyrrolidone (PVP) blend asymmetric membranes: Preparation, morphology and performance. <i>Desalination</i> , 2009, 249, 850-854.	4.0	165
12	Effect of operating parameters on Pb <sup>2+</sup> separation from wastewater using electro dialysis. <i>Desalination</i> , 2004, 167, 379-385.	4.0	159
13	Preparation of alloyed poly(ether block amide)/poly(ethylene glycol diacrylate) membranes for separation of CO <sub>2</sub> /H <sub>2</sub> (syngas application). <i>Journal of Membrane Science</i> , 2014, 458, 14-26.	4.1	158
14	Modeling of membrane fouling and flux decline in reverse osmosis during separation of oil in water emulsions. <i>Desalination</i> , 2003, 157, 369-375.	4.0	157
15	Performance study of mullite and mullite-alumina ceramic MF membranes for oily wastewaters treatment. <i>Desalination</i> , 2010, 259, 169-178.	4.0	149
16	Hydrogen separation and purification using crosslinkable PDMS/zeolite A nanoparticles mixed matrix membranes. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 14576-14589.	3.8	149
17	Water transport study across commercial ion exchange membranes in the vanadium redox flow battery. <i>Journal of Membrane Science</i> , 1997, 133, 151-159.	4.1	144
18	Experimental performance evaluation of polymeric membranes for treatment of an industrial oily wastewater. <i>Desalination</i> , 2010, 262, 235-242.	4.0	138

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19	Ionic liquid-modified Pebax® 1657 membrane filled by ZIF-8 particles for separation of CO <sub>2</sub> from CH <sub>4</sub> , N <sub>2</sub> and H <sub>2</sub> . Journal of Membrane Science, 2017, 524, 652-662.	4.1	136
20	Gas transport properties of reverse-selective poly(ether-b-amide6)/[Emim][BF <sub>4</sub> ] gel membranes for CO <sub>2</sub> /light gases separation. Journal of Membrane Science, 2015, 476, 286-302.	4.1	135
21	High-salinity water desalination using VMD. Chemical Engineering Journal, 2009, 149, 191-195.	6.6	130
22	Pervaporation of dilute alcoholic mixtures using PDMS membrane. Chemical Engineering Science, 2005, 60, 1875-1880.	1.9	128
23	Synergistic interactions between POSS and fumed silica and their effect on the properties of crosslinked PDMS nanocomposite membranes. RSC Advances, 2015, 5, 82460-82470.	1.7	118
24	Investigation of membrane fouling. Desalination, 2003, 153, 155-160.	4.0	115
25	Comparison of permeability performance of PEBAX-1074/TiO <sub>2</sub> , PEBAX-1074/SiO <sub>2</sub> and PEBAX-1074/Al <sub>2</sub> O <sub>3</sub> nanocomposite membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. Chemical Engineering Research and Design, 2017, 117, 177-189.	2.7	115
26	Treatment of sea water using electrodialysis: Current efficiency evaluation. Desalination, 2009, 249, 279-285.	4.0	114
27	Preparation of sulfonated composite membrane for vanadium redox flow battery applications. Journal of Membrane Science, 1995, 107, 35-45.	4.1	113
28	Effective treatment of dye wastewater via positively charged TETA-MWCNT/PES hybrid nanofiltration membranes. Separation and Purification Technology, 2018, 194, 488-502.	3.9	112
29	CFD simulation of water removal from water/ethylene glycol mixtures by pervaporation. Chemical Engineering Journal, 2011, 168, 60-67.	6.6	109
30	Modification of anion-exchange membranes for vanadium redox flow battery applications. Journal of Power Sources, 1996, 63, 179-186.	4.0	108
31	Stability and extraction study of phenolic wastewater treatment by supported liquid membrane using tributyl phosphate and sesame oil as liquid membrane. Chemical Engineering Research and Design, 2014, 92, 375-383.	2.7	107
32	Separation of copper ions by electrodialysis using Taguchi experimental design. Desalination, 2004, 169, 21-31.	4.0	106
33	Characterisation of novel composite membrane for redox flow battery applications. Journal of Membrane Science, 1995, 98, 77-87.	4.1	105
34	Separation of lead ions from wastewater using electrodialysis: Comparing mathematical and neural network modeling. Chemical Engineering Journal, 2008, 144, 431-441.	6.6	104
35	Salty water desalination using carbon nanotube sheets. Desalination, 2010, 258, 182-186.	4.0	104
36	CO <sub>2</sub> /CH <sub>4</sub> separation by high performance co-casted ZIF-8/Pebax 1657/PES mixed matrix membrane. Journal of Natural Gas Science and Engineering, 2016, 31, 562-574.	2.1	103

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37	A positively charged composite loose nanofiltration membrane for water purification from heavy metals. <i>Journal of Membrane Science</i> , 2020, 611, 118205.	4.1	102
38	Simulation and determination of optimum conditions of pervaporative dehydration of isopropanol process using synthesized PVA/APTEOS/TEOS nanocomposite membranes by means of expert systems. <i>Journal of Membrane Science</i> , 2011, 379, 224-232.	4.1	101
39	Separation of water in oil emulsions using microfiltration. <i>Desalination</i> , 2005, 185, 371-382.	4.0	100
40	Wastewater treatment of a vegetable oil factory by a hybrid ultrafiltration-activated carbon process. <i>Journal of Membrane Science</i> , 2005, 254, 129-137.	4.1	100
41	Chemical cleaning of ultrafiltration membranes in the milk industry. <i>Desalination</i> , 2007, 204, 213-218.	4.0	100
42	Synthesis and characterization of carbon nanotubes/poly vinyl alcohol nanocomposite membranes for dehydration of isopropanol. <i>Journal of Membrane Science</i> , 2011, 378, 551-561.	4.1	100
43	Sorption properties of hydrogen-selective PDMS/zeolite 4A mixed matrix membrane. <i>International Journal of Hydrogen Energy</i> , 2012, 37, 17275-17284.	3.8	96
44	Gas permeation through H <sub>2</sub> -selective mixed matrix membranes: Experimental and neural network modeling. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 1128-1135.	3.8	94
45	One-dimensional graphene for efficient aqueous heavy metal adsorption: Rapid removal of arsenic and mercury ions by graphene oxide nanoribbons (GONRs). <i>Chemosphere</i> , 2020, 253, 126647.	4.2	94
46	Gas permeation through a synthesized composite PDMS/PES membrane. <i>Journal of Membrane Science</i> , 2009, 342, 236-250.	4.1	90
47	Effect of production conditions on morphology and permeability of asymmetric cellulose acetate membranes. <i>Desalination</i> , 2009, 243, 1-7.	4.0	90
48	Effects of coagulation bath temperature and polyvinylpyrrolidone content on flat sheet asymmetric polyethersulfone membranes. <i>Polymer Engineering and Science</i> , 2010, 50, 885-893.	1.5	89
49	Divalent heavy metal ions removal from contaminated water using positively charged membrane prepared from a new carbon nanomaterial and HPEI. <i>Chemical Engineering Journal</i> , 2020, 388, 124192.	6.6	89
50	Preparation, characterization and fouling analysis of in-air hydrophilic/underwater oleophobic bio-inspired polydopamine coated PES membranes for oily wastewater treatment. <i>Journal of Membrane Science</i> , 2019, 582, 402-413.	4.1	86
51	CFD modeling of porous membranes. <i>Desalination</i> , 2008, 222, 482-488.	4.0	83
52	Pebax membrane for CO <sub>2</sub> /CH <sub>4</sub> separation: Effects of various solvents on morphology and performance. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	83
53	Water shortage and seawater desalination by electrodialysis. <i>Desalination</i> , 2003, 158, 267-270.	4.0	81
54	Effect of operating parameters on pure and mixed gas permeation properties of a synthesized composite PDMS/PA membrane. <i>Journal of Membrane Science</i> , 2009, 342, 327-340.	4.1	79

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55	Neural network modeling of Pb <sup>2+</sup> removal from wastewater using electrodialysis. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009, 48, 1371-1381.	1.8	78
56	Application of Taguchi method in optimization of desalination by vacuum membrane distillation. <i>Desalination</i> , 2009, 249, 83-89.	4.0	78
57	Dimensional analysis of permeation flux for microfiltration of oily wastewaters using mullite ceramic membranes. <i>Desalination</i> , 2010, 252, 113-119.	4.0	78
58	Pervaporation study of ethylene glycol dehydration through synthesized (PVA-4A)/polypropylene mixed matrix composite membranes. <i>Polymer Engineering and Science</i> , 2013, 53, 1487-1493.	1.5	78
59	Asymmetric polyethersulfone ultrafiltration membranes for oily wastewater treatment: Synthesis, characterization, ANFIS modeling, and performance. <i>Journal of Environmental Chemical Engineering</i> , 2015, 3, 170-178.	3.3	78
60	Synthesis of a new nanocomposite membrane (PEBAX-1074/PEG-400/TiO <sub>2</sub> ) in order to separate CO <sub>2</sub> from CH <sub>4</sub> . <i>Journal of Natural Gas Science and Engineering</i> , 2017, 37, 39-51.	2.1	78
61	Preparation of novel cross-linked graphene oxide membrane for desalination applications using (EDC) Tj ETQq1 1 0.784314 rgBT /Ove	4.0	78
62	Water desalination via novel positively charged hybrid nanofiltration membranes filled with hyperbranched polyethyleneimine modified MWCNT. <i>Journal of Industrial and Engineering Chemistry</i> , 2019, 69, 127-140.	2.9	78
63	Nano-porous membrane process for oily wastewater treatment: Optimization using response surface methodology. <i>Journal of Environmental Chemical Engineering</i> , 2013, 1, 218-225.	3.3	77
64	Improved antifouling properties of TiO <sub>2</sub> /PVDF nanocomposite membranes in UV-coupled ultrafiltration. <i>Journal of Applied Polymer Science</i> , 2015, 132, .	1.3	77
65	A Novel Chemical Surface Modification for the Fabrication of PEBA/SiO <sub>2</sub> Nanocomposite Membranes To Separate CO <sub>2</sub> from Syngas and Natural Gas Streams. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 17476-17486.	1.8	76
66	Nitrate removal from water using functionalized carbon nanotube sheets. <i>Chemical Engineering Research and Design</i> , 2012, 90, 1815-1822.	2.7	75
67	CO <sub>2</sub> separation performance of poly(ether-b-amide6)/PTMEG blended membranes: Permeation and sorption properties. <i>Chemical Engineering Research and Design</i> , 2015, 98, 96-106.	2.7	75
68	Effect of poly(vinyl pyrrolidone) concentration and coagulation bath temperature on the morphology, permeability, and thermal stability of asymmetric cellulose acetate membranes. <i>Journal of Applied Polymer Science</i> , 2009, 111, 2537-2544.	1.3	74
69	Assessing the Binding Performance of Amyloid-β Carbon Membranes toward Heavy Metal Ions. <i>Langmuir</i> , 2019, 35, 4161-4170.	1.6	74
70	Gas sorption in H <sub>2</sub> -selective mixed matrix membranes: Experimental and neural network modeling. <i>International Journal of Hydrogen Energy</i> , 2013, 38, 14035-14041.	3.8	72
71	Synthesis and gas transport properties of crosslinked poly(dimethylsiloxane) nanocomposite membranes using octatrimethylsiloxy POSS nanoparticles. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 30, 10-18.	2.1	72
72	Synthesis of a PEBAX-1074/ZnO nanocomposite membrane with improved CO <sub>2</sub> separation performance. <i>Journal of Energy Chemistry</i> , 2017, 26, 454-465.	7.1	72

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73	Use of polyelectrolyte for incorporation of ion-exchange groups in composite membranes for vanadium redox flow battery applications. <i>Journal of Power Sources</i> , 1995, 56, 91-96.	4.0	71
74	Performance of PVA/NaA Mixed Matrix Membrane for Removal of Water from Ethylene Glycol Solutions by Pervaporation. <i>Chemical Engineering Communications</i> , 2015, 202, 316-321.	1.5	71
75	Experimental investigation and mathematical modeling of CO <sub>2</sub> sequestration from CO <sub>2</sub> /CH <sub>4</sub> gaseous mixture using MEA and TEA aqueous absorbents through polypropylene hollow fiber membrane contactor. <i>Journal of Membrane Science</i> , 2018, 565, 1-13.	4.1	70
76	Synthesis and characterization of polyethersulfone membranes. <i>Journal of Polymer Research</i> , 2010, 17, 363-377.	1.2	69
77	Preparation and characterization of SAPO-34 Matrimid® 5218 mixed matrix membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Chemical Engineering Research and Design</i> , 2013, 91, 1335-1342.	2.7	68
78	Innovative layer by layer and continuous growth methods for synthesis of ZIF-8 membrane on porous polymeric support using poly(ether-block-amide) as structure directing agent for gas separation. <i>Microporous and Mesoporous Materials</i> , 2016, 234, 43-54.	2.2	67
79	Separation of different ions from wastewater at various operating conditions using electrodialysis. <i>Separation and Purification Technology</i> , 2007, 54, 147-156.	3.9	65
80	Wastewater treatment using ultrafiltration at a vegetable oil factory. <i>Desalination</i> , 2004, 166, 329-337.	4.0	64
81	CO <sub>2</sub> and CH <sub>4</sub> permeation through T-type zeolite membranes: Effect of synthesis parameters and feed pressure. <i>Separation and Purification Technology</i> , 2008, 61, 317-323.	3.9	64
82	Mass transfer modeling of desalination through an electrodialysis cell. <i>Desalination</i> , 2015, 359, 41-51.	4.0	64
83	Synthesis of MFI zeolite membranes for water desalination. <i>Desalination</i> , 2007, 206, 547-553.	4.0	63
84	Acid Gas Permeation Behavior Through Poly(Ester Urethane Urea) Membrane. <i>Industrial &amp; Engineering Chemistry Research</i> , 2008, 47, 7361-7367.	1.8	63
85	Separation of ethylene glycol solution by vacuum membrane distillation (VMD). <i>Desalination</i> , 2005, 181, 35-41.	4.0	61
86	Polyethersulfone/polyacrylonitrile blend ultrafiltration membranes with different molecular weight of polyethylene glycol: preparation, morphology and antifouling properties. <i>Polymers for Advanced Technologies</i> , 2012, 23, 398-407.	1.6	61
87	Gas permeation, sorption and diffusion through PEBA/SiO <sub>2</sub> nanocomposite membranes (chemical) Tj ETQq1 1 0.784314 rgBT /Overlo	3.8	59
88	Bio-inspired anchoring of amino-functionalized multi-wall carbon nanotubes (N-MWCNTs) onto PES membrane using polydopamine for oily wastewater treatment. <i>Science of the Total Environment</i> , 2020, 711, 134951.	3.9	59
89	Effect of amine modification on morphology and performance of poly(ether-block-amide)/fumed silica nanocomposite membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Materials Chemistry and Physics</i> , 2018, 205, 303-314.	2.0	58
90	Effects of Tween 80 concentration as a surfactant additive on morphology and permeability of flat sheet polyethersulfone (PES) membranes. <i>Desalination</i> , 2009, 249, 837-842.	4.0	57

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91	Hydrothermal synthesis of hydroxy sodalite zeolite membrane: Separation of H <sub>2</sub> /CH <sub>4</sub> . <i>Ceramics International</i> , 2014, 40, 5889-5896.	2.3	57
92	Effects of different carbon precursors on synthesis of multiwall carbon nanotubes: Purification and Functionalization. <i>Applied Surface Science</i> , 2011, 257, 7359-7367.	3.1	56
93	Transient computational fluid dynamics modeling of pervaporation separation of aromatic/aliphatic hydrocarbon mixtures using polymer composite membrane. <i>Polymer Engineering and Science</i> , 2013, 53, 1494-1501.	1.5	55
94	Oily wastewater treatment using ultrafiltration. <i>Desalination and Water Treatment</i> , 2009, 6, 289-298.	1.0	54
95	Effect of ultrasonic waves on flux enhancement in microfiltration of milk. <i>Journal of Food Engineering</i> , 2012, 108, 77-86.	2.7	54
96	Polyvinyl alcohol/polyethersulfone thin-film nanocomposite membranes with carbon nanomaterials incorporated in substrate for water treatment. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104650.	3.3	54
97	Mixed matrix membranes of Matrimid 5218 loaded with zeolite 4A for pervaporation separation of water/isopropanol mixtures. <i>Chemical Engineering Research and Design</i> , 2012, 90, 2353-2363.	2.7	53
98	Recovery of alcohols from water using polydimethylsiloxane/silica nanocomposite membranes: Characterization and pervaporation performance. <i>Journal of Applied Polymer Science</i> , 2012, 124, 2871-2882.	1.3	53
99	Synthesis and gas transport performance of MIL-101/Matrimid mixed matrix membranes. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 29, 249-256.	2.9	53
100	The effect of membrane pores wettability on CO <sub>2</sub> removal from CO <sub>2</sub> /CH <sub>4</sub> gaseous mixture using NaOH, MEA and TEA liquid absorbents in hollow fiber membrane contactor. <i>Chinese Journal of Chemical Engineering</i> , 2018, 26, 1845-1861.	1.7	53
101	Improvement of permeation performance of polyethersulfone (PES) ultrafiltration membranes via addition of Tween-20. <i>Journal of Applied Polymer Science</i> , 2010, 115, 504-513.	1.3	52
102	Ternary gas permeation through synthesized pdms membranes: Experimental and CFD simulation based on sorption-dependent system using neural network model. <i>Polymer Engineering and Science</i> , 2014, 54, 215-226.	1.5	52
103	Effect of calcination temperature of kaolin as a support for zeolite membranes. <i>Separation and Purification Technology</i> , 2003, 30, 241-249.	3.9	51
104	Dehydration of isopropanol by PVA/APTEOS/TEOS nanocomposite membranes. <i>Chemical Engineering Research and Design</i> , 2011, 89, 148-155.	2.7	51
105	Modeling and simulation of CO <sub>2</sub> separation from CO <sub>2</sub> /CH <sub>4</sub> gaseous mixture using potassium glycinate, potassium arginate and sodium hydroxide liquid absorbents in the hollow fiber membrane contactor. <i>Journal of Environmental Chemical Engineering</i> , 2018, 6, 1500-1511.	3.3	51
106	Salty water desalination using carbon nanotubes membrane. <i>Chemical Engineering Journal</i> , 2011, 168, 1064-1072.	6.6	50
107	Fabrication optimization of polyethersulfone (PES)/polyvinylpyrrolidone (PVP) nanofiltration membranes using Box-Behnken response surface method. <i>RSC Advances</i> , 2017, 7, 24995-25008.	1.7	50
108	Permanent hard water softening using carbon nanotube sheets. <i>Desalination</i> , 2011, 268, 208-213.	4.0	49

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109	Mathematical modeling of desalination by electrodialysis. <i>Desalination</i> , 2007, 206, 538-546.	4.0	48
110	Prediction of permeation flux decline during MF of oily wastewater using genetic programming. <i>Chemical Engineering Research and Design</i> , 2012, 90, 846-853.	2.7	48
111	High flux PVDF/PVP nanocomposite ultrafiltration membrane incorporated with graphene oxide nanoribbons with improved antifouling properties. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49718.	1.3	48
112	Novel amine modification of ZIF-8 for improving simultaneous removal of cationic dyes from aqueous solutions using supported liquid membrane. <i>Journal of Molecular Liquids</i> , 2017, 225, 800-809.	2.3	47
113	Preparation of positively charged thin-film nanocomposite membranes based on the reaction between hydrolyzed polyacrylonitrile containing carbon nanomaterials and HPEI for water treatment application. <i>Separation and Purification Technology</i> , 2020, 242, 116826.	3.9	47
114	Ternary gas permeation through a synthesized PDMS membrane: Experimental and modeling. <i>Journal of Membrane Science</i> , 2009, 344, 225-236.	4.1	46
115	C3H8 separation from CH4 and H2 using a synthesized PDMS membrane: Experimental and neural network modeling. <i>Journal of Membrane Science</i> , 2010, 346, 59-70.	4.1	46
116	Investigation of hydrothermal synthesis parameters on characteristics of T type zeolite crystal structure. <i>Powder Technology</i> , 2011, 206, 345-352.	2.1	45
117	Novel Poly(vinyl alcohol)/Multiwalled Carbon Nanotube Nanocomposite Membranes for Pervaporation Dehydration of Isopropanol: Poly(sodium 4-styrenesulfonate) as a Functionalization Agent. <i>Industrial &amp; Engineering Chemistry Research</i> , 2014, 53, 12819-12829.	1.8	45
118	Improved CO2/CH4 separation using a nanocomposite ionic liquid gel membrane. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 46, 275-288.	2.1	44
119	Synthesis and functionalization of graphene oxide (GO) for salty water desalination as adsorbent. <i>Chemical Engineering Research and Design</i> , 2018, 138, 358-365.	2.7	44
120	Effect of operating conditions on microfiltration of an oil-water emulsion by a kaolin membrane. <i>Desalination</i> , 2004, 168, 201-205.	4.0	43
121	Oily wastewater treatment using mullite ceramic membrane. <i>Desalination and Water Treatment</i> , 2012, 37, 21-30.	1.0	43
122	Simulation of momentum, heat and mass transfer in direct contact membrane distillation: A computational fluid dynamics approach. <i>Journal of Industrial and Engineering Chemistry</i> , 2015, 21, 1379-1382.	2.9	43
123	Chitosan/ZIF-8 Mixed Matrix Membranes for Pervaporation Dehydration of Isopropanol. <i>Chemical Engineering and Technology</i> , 2017, 40, 648-655.	0.9	43
124	Synthesis and characterization of poly(ether-block-amide) copolymers/multi-walled carbon nanotube nanocomposite membranes for CO2/CH4 separation. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 2459-2470.	1.2	43
125	High speed spin coating in fabrication of Pebax 1657 based mixed matrix membrane filled with ultra-porous ZIF-8 particles for CO2/CH4 separation. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 440-453.	1.2	43
126	Synthesis and modification of Zeolitic Imidazolate Framework (ZIF-8) nanoparticles as highly efficient adsorbent for H2S and CO2 removal from natural gas. <i>Journal of Environmental Chemical Engineering</i> , 2019, 7, 103058.	3.3	43



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127	Preparation of PEBAX-1074/modified ZIF-8 nanoparticles mixed matrix membranes for CO <sub>2</sub> removal from natural gas. <i>Separation and Purification Technology</i> , 2020, 231, 115900.	3.9	43
128	Application of Mg-Al LDH nanoparticles to enhance flux, hydrophilicity and antifouling properties of PVDF ultrafiltration membrane: Experimental and modeling studies. <i>Separation and Purification Technology</i> , 2021, 257, 117931.	3.9	43
129	Oily wastewater treatment using a hybrid UF/RO system. <i>Desalination and Water Treatment</i> , 2011, 28, 75-82.	1.0	42
130	Kaolinitic clay-based ceramic microfiltration membrane for oily wastewater treatment: Assessment of coagulant addition. <i>Ceramics International</i> , 2019, 45, 17826-17836.	2.3	42
131	Separation of Ethylene Glycol/Water Mixtures using NaA Zeolite Membranes. <i>Chemical Engineering and Technology</i> , 2006, 29, 1340-1346.	0.9	41
132	Effect of operating conditions on pervaporation of methanol/methyl tert-butyl ether mixtures. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008, 47, 1069-1074.	1.8	41
133	Template free crystallization of zeolite Rho via Hydrothermal synthesis: Effects of synthesis time, synthesis temperature, water content and alkalinity. <i>Ceramics International</i> , 2013, 39, 7149-7158.	2.3	41
134	Intensification of Europium extraction through a supported liquid membrane using mixture of D2EHPA and Cyanex272 as carrier. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015, 92, 18-24.	1.8	41
135	High Loaded Synthetic Hazardous Wastewater Treatment Using Lab-Scale Submerged Ceramic Membrane Bioreactor. <i>Periodica Polytechnica: Chemical Engineering</i> , 2018, 62, 299-304.	0.5	41
136	Making zeolite A membrane from kaolin by electrophoresis. <i>Microporous and Mesoporous Materials</i> , 2002, 56, 81-88.	2.2	40
137	Separation of monovalent, divalent and trivalent ions from wastewater at various operating conditions using electro dialysis. <i>Desalination</i> , 2007, 205, 53-61.	4.0	40
138	Taguchi optimization approach for phenolic wastewater treatment by vacuum membrane distillation. <i>Desalination and Water Treatment</i> , 2014, 52, 1341-1349.	1.0	40
139	Mathematical modeling for the simultaneous absorption of CO <sub>2</sub> and SO <sub>2</sub> using MEA in hollow fiber membrane contactors. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 111, 35-45.	1.8	40
140	Dehydration of water/1-1-dimethylhydrazine mixtures by zeolite membranes. <i>Microporous and Mesoporous Materials</i> , 2004, 70, 127-134.	2.2	39
141	Mathematical modeling of flux decline in ultrafiltration. <i>Desalination</i> , 2005, 184, 367-375.	4.0	39
142	Mathematical modeling of mass transfer in multicomponent gas mixture across the synthesized composite polymeric membrane. <i>Journal of Industrial and Engineering Chemistry</i> , 2013, 19, 870-885.	2.9	39
143	Sustainable management of saline oily wastewater via forward osmosis using aquaporin membrane. <i>Chemical Engineering Research and Design</i> , 2020, 138, 199-207.	2.7	39
144	Ceramic monolith as microfiltration membrane: Preparation, characterization and performance evaluation. <i>Applied Clay Science</i> , 2018, 161, 456-463.	2.6	38

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145	Hydrodynamic factors affecting flux and fouling during reverse osmosis of seawater. <i>Desalination</i> , 2003, 151, 239-245.	4.0	37
146	Preparation of mullite ceramic microfilter membranes using Response surface methodology based on central composite design. <i>Ceramics International</i> , 2016, 42, 8155-8164.	2.3	37
147	Dye removal using 4A-zeolite/polyvinyl alcohol mixed matrix membrane adsorbents: preparation, characterization, adsorption, kinetics, and thermodynamics. <i>Research on Chemical Intermediates</i> , 2016, 42, 5309-5328.	1.3	37
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