Hollow fiber membrane contactors

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Citation Report

#	Article	IF	Citations
1	Extraction of acetate from simulated waste solutions in chloromycetin production. Separation and Purification Technology, 1999, 17, 225-233.	3.9	15
2	Microporous inorganic and polymeric membranes as catalytic reactors and membrane contactors. Membrane Science and Technology, 2000, , 497-510.	0.5	4
3	Reactive extraction of penicillin G in hollow-fiber and hollow-fiber fabric modules., 2000, 69, 66-73.		38
4	Liquid-liquid extraction of copper(II)-EDTA chelated anions with microporous hollow fibers. Journal of Chemical Technology and Biotechnology, 2000, 75, 610-616.	1.6	4
5	Optimal operation of selective membrane separation processes for wastewater treatment. Computers and Chemical Engineering, 2000, 24, 2115-2123.	2.0	17
6	MEMBRANE PREPARATION Hollow-Fibre Membranes. , 2000, , 3312-3319.		3
7	MEMBRANE CONTACTORS: MEMBRANE SEPARATIONS. , 2000, , 3303-3311.		7
8	Hollow-Fiber Membrane Extraction of Copper(II) from Aqueous Ethylenediaminetetraacetic Acid Solutions with Aliquat 336. Industrial & Engineering Chemistry Research, 2000, 39, 1409-1415.	1.8	26
9	Hollow Fiber Supported Liquid Membrane for the Separation/Concentration of Gold(I) from Aqueous Cyanide Media: Modeling and Mass Transfer Evaluation. Industrial & Engineering Chemistry Research, 2000, 39, 146-154.	1.8	40
11	Separation Methods., 2001, , 415-436.		О
12	Hydrophobic Hollow Fiber Membranes for Treating MTBE-Contaminated Water. Environmental Science & Envir	4.6	26
13	A study on the PP hollow fiber membrane contactor and its performance for removing ammonia from wastewater or mixed gas: II. Ammonia removal from mixed gas. Water Science and Technology: Water Supply, 2001, 1, 195-198.	1.0	2
14	Removal of mercury from gas streams by oxidative membrane gas absorption. Journal of Membrane Science, 2001, 187, 151-157.	4.1	28
15	Recovery of sulfur aroma compounds using membrane-based solvent extraction. Journal of Membrane Science, 2001, 187, 239-253.	4.1	64
16	Effect of operating variables on the flux and selectivity in sweep gas membrane distillation for dilute aqueous isopropanol. Journal of Membrane Science, 2001, 188, 79-86.	4.1	66
17	Mass-transfer in hollow-fiber modules for extraction and back-extraction of copper(II) with LIX64N carriers. Journal of Membrane Science, 2001, 188, 251-262.	4.1	62
18	Optimal design of non-dispersive solvent extraction processes. Computers and Chemical Engineering, 2001, 25, 267-285.	2.0	18
19	Kinetics of the recovery of Cd from highly concentrated aqueous solutions by non-dispersive solvent extraction. Chemical Engineering Journal, 2001, 81, 129-136.	6.6	23

#	Article	IF	Citations
20	The membrane contactor: Environmental applications and possibilities. Environmental Progress, 2001, 20, 37-43.	0.8	58
21	Integrated membrane process for gold recovery from hydrometallurgical solutions. AICHE Journal, 2001, 47, 328-340.	1.8	27
22	Kinetics of separating multicomponent mixtures by nondispersive solvent extraction: Ni and Cd. AICHE Journal, 2001, 47, 895-905.	1.8	29
23	Liquid-liquid extraction of aroma compounds with hollow fiber contactor. AICHE Journal, 2001, 47, 1780-1793.	1.8	84
24	Memrane extraction in analytical chemistry. Journal of Separation Science, 2001, 24, 495-507.	1.3	205
25	Innovations in separations technology for the recycling and re-use of liquid waste streams. Chemical Engineering Journal, 2001, 84, 149-159.	6.6	220
26	REMOVAL OF ACETIC ACID WITH AMINE EXTRACTANTS FROM FERMENTATION BROTH USING HYDROPHOBIC HOLLOW-FIBER MEMBRANE CONTACTOR. Separation Science and Technology, 2001, 36, 457-471.	1.3	17
27	Analysis of the back-extraction of cadmium–nickel–D2EHPA organic phases. Separation Science and Technology, 2002, 37, 607-625.	1.3	9
28	MEMBRANE GAS ABSORBERS FOR H ₂ S REMOVAL – DESIGN, OPERATION AND TECHNOLOGY INTEGRATION INTO EXISTING ODOUR TREATMENT STRATEGIES. Proceedings of the Water Environment Federation, 2002, 2002, 13-36.	0.0	0
29	Design of a Membrane Process in a Countercurrent Operation for the Treatment of Industrial Effluents. Computer Aided Chemical Engineering, 2002, 10, 145-150.	0.3	0
30	Development of carbon dioxide separation process using continuous hollow-fiber membrane contactor and water-splitting electrodialysis. Separation Science and Technology, 2002, 37, 1789-1806.	1.3	19
31	Kinetic Modeling of Simultaneous Recovery of Metallic Cations and Anions with a Mixture of Extractants in Hollow-Fiber Modules. Industrial & Extractants in Hollow-Fiber Modules. Industrial & Engineering Chemistry Research, 2002, 41, 853-861.	1.8	8
32	Removal of acetone and methanol from gaseous streams in a hollow fiber absorber. Separation Science and Technology, 2002, 37, 261-277.	1.3	2
33	Flexibility analysis of nondispersive solvent extraction plant. Separation Science and Technology, 2002, 37, 161-189.	1.3	2
34	Removal of free and chelated Cu(II) ions from water by a nondispersive solvent extraction process. Water Research, 2002, 36, 3611-3619.	5.3	34
35	CONCENTRATION OF NaCl SOLUTION BY MEMBRANE DISTILLATION INTEGRATED WITH CRYSTALLIZATION. Separation Science and Technology, 2002, 37, 3535-3558.	1.3	130
36	Extraction of a dissolved organic contaminant from water into an aqueous surfactant solution across a microporous membrane. Canadian Journal of Chemical Engineering, 2002, 80, 224-230.	0.9	2
37	Mass transfer in axial flows through randomly packed fiber bundles with constant wall concentration. Journal of Membrane Science, 2002, 204, 207-220.	4.1	28

#	Article	IF	Citations
38	Modeling of nondispersive extraction of binary $Zn(II)$ and $Cu(II)$ with D2EHPA in hollow fiber devices. Journal of Membrane Science, 2002, 208, 31-38.	4.1	21
39	A microporous membrane interface for the monitoring of dissolved gaseous and volatile compounds by on-line mass spectrometry. Journal of Membrane Science, 2002, 208, 49-56.	4.1	9
40	Mass transport in the membrane air-stripping process using microporous polypropylene hollow fibers: effect of toluene in aqueous feed. Journal of Membrane Science, 2002, 209, 207-219.	4.1	40
41	Continuous operation of membrane processes for the treatment of industrial effluents. Computers and Chemical Engineering, 2002, 26, 555-561.	2.0	10
42	New absorption liquids for the removal of CO2 from dilute gas streams using membrane contactors. Chemical Engineering Science, 2002, 57, 1639-1651.	1.9	242
43	Membrane-based solvent extraction of sulfur aroma compounds: influence of operating conditions on mass transfer coefficients in a hollow fiber contactor. Desalination, 2002, 148, 199-204.	4.0	36
44	Simultaneous extraction and stripping of EDTA-chelated metallic anions with Aliquat 336 in hollow fiber contactors. Chemical Engineering Science, 2002, 57, 143-152.	1.9	18
45	A porous carbon membrane reactor for the homogeneous catalytic hydration of propene. Chemical Engineering Science, 2002, 57, 2357-2369.	1.9	20
46	Computer-Aided Design of Membrane Processes for Effluent Treatment and Cr(VI) Recovery for Reuse On-Site. Chemical Engineering Research and Design, 2003, 81, 357-362.	2.7	0
47	New hydrophobic membranes for osmotic evaporation process. Separation and Purification Technology, 2003, 32, 3-7.	3.9	27
48	Modeling heat and mass transfer in osmotic evaporation process. AICHE Journal, 2003, 49, 300-308.	1.8	22
49	Analysis of boundary layer and solute transport in osmotic evaporation. AICHE Journal, 2003, 49, 2783-2792.	1.8	17
50	Mass transfer in hollow fiber membrane contactor extraction using compressed solvents. Journal of Membrane Science, 2003, 227, 183-196.	4.1	36
51	Reduction of CO2 emissions by a membrane contacting processâ [†] . Fuel, 2003, 82, 2153-2159.	3.4	165
52	Compressed solvents for the extraction of fermentation products within a hollow fiber membrane contactor. Journal of Supercritical Fluids, 2003, 25, 119-134.	1.6	55
53	Flow distribution in a randomly packed hollow fiber membrane module. Journal of Membrane Science, 2003, 211, 263-269.	4.1	60
54	Mechanistic analysis of solvent extraction of heavy metals in membrane contactors. Journal of Membrane Science, 2003, 213, 125-135.	4.1	71
55	Approximate solution to predict the enhancement factor for the reactive absorption of a gas in a liquid flowing through a microporous membrane hollow fiber. Journal of Membrane Science, 2003, 213, 231-245.	4.1	76

#	ARTICLE	IF	Citations
56	Study on the effect of flow maldistribution on the performance of the hollow fiber modules used in membrane distillation. Journal of Membrane Science, 2003, 215, 11-23.	4.1	39
57	Preparation of coiled hollow-fiber membrane and mass transfer performance in membrane extraction. Journal of Membrane Science, 2003, 215, 203-211.	4.1	24
58	Membrane Contactors in the Beverage Industry for Controlling the Water Gas Composition. Annals of the New York Academy of Sciences, 2003, 984, 1-16.	1.8	23
59	Membrane Contactors for Textile Wastewater Ozonation. Annals of the New York Academy of Sciences, 2003, 984, 29-38.	1.8	12
60	Stable Liquid Membranes. Annals of the New York Academy of Sciences, 2003, 984, 279-288.	1.8	14
61	Extraction Equilibrium of Zinc from Sulfate Solutions with Bis(2-ethylhexyl)thiophosphoric Acid. Industrial & Engineering Chemistry Research, 2003, 42, 4077-4083.	1.8	12
62	Hindered Membrane Diffusion in the Nondispersive Stripping of Co(II) from Organic Amine Solutions with Hydrochloric Acid. Industrial & Engineering Chemistry Research, 2003, 42, 6181-6187.	1.8	2
63	Membrane contactors: recent developments. Membrane Science and Technology, 2003, , 147-164.	0.5	8
64	Determination of Mass Transfer Rates in PVDF and PTFE Hollow Fiber Membranes for CO2Absorption. Separation Science and Technology, 2003, 38, 271-293.	1.3	83
65	Analysis of polycyclic aromatic hydrocarbons in soil and sediment with on-line coupled pressurised hot water extraction, hollow fibre microporous membrane liquid–liquid extraction and gas chromatography. Analyst, The, 2003, 128, 434-439.	1.7	47
66	Shell Side Mass Transfer Characteristics in a Parallel Flow Hollow Fiber Membrane Module. Separation Science and Technology, 2003, 38, 1247-1267.	1.3	52
67	Mass transfer in axial flows through randomly packed fiber bundles. Membrane Science and Technology, 2003, , 5-26.	0.5	3
68	Hollow Fiber Membrane Contactor Hybrid System for CO2 Recovery. Studies in Surface Science and Catalysis, 2004, , 423-428.	1.5	7
69	Removal of Aqueous Phase Trichloroethylene Using Membrane Air Stripping Contactors. Journal of Environmental Engineering, ASCE, 2004, 130, 1232-1241.	0.7	8
70	Nonâ€dispersive Solvent Extraction of Alkali Metals with the Dicyclohexano 18 Crown 6: Evaluation of Mass Transfer Coefficients. Separation Science and Technology, 2004, 39, 3839-3858.	1.3	13
71	The air-phase mass tranfer resistance in the lumen of a hollow fiber at low air flow. Chemical Engineering Journal, 2004, 97, 69-75.	6.6	22
72	Composite hollow fiber gas–liquid membrane contactors for olefin/paraffin separation. Separation and Purification Technology, 2004, 37, 209-220.	3.9	51
73	Application of ultrafiltration to improve the extraction of antibiotics. Separation and Purification Technology, 2004, 34, 115-123.	3.9	35

#	ARTICLE	lF	Citations
74	Membrane Technology and Sustainable Growth. Chemical Engineering Research and Design, 2004, 82, 1557-1562.	2.7	59
75	Applications of membrane unit operations in ethylene process. Clean Technologies and Environmental Policy, 2004, 6, 78-95.	2.1	27
76	Optimal design of membrane processes for wastewater treatment and metal recovery. Computers and Chemical Engineering, 2004, 28, 103-109.	2.0	11
77	Modeling of CO2 capture by three typical amine solutions in hollow fiber membrane contactors. Chemical Engineering and Processing: Process Intensification, 2004, 43, 849-856.	1.8	155
78	Selection of top layer materials for gas-liquid membrane contactors. Journal of Applied Polymer Science, 2004, 92, 323-334.	1.3	28
79	Recent Advances in Chiral Resolution through Membrane-Based Approaches. Angewandte Chemie - International Edition, 2004, 43, 5293-5295.	7.2	151
80	Process development for degradation of phenol byPseudomonas putida in hollow-fiber membrane bioreactors. Biotechnology and Bioengineering, 2004, 87, 219-227.	1.7	39
82	Using membrane contactors for fruit juice concentration. Desalination, 2004, 162, 263-270.	4.0	24
83	Simulation of integrated extraction and stripping processes using membrane contactors. Desalination, 2004, 163, 1-12.	4.0	23
84	Liquid-liquid extraction and air stripping in membrane contactor: application to aroma compounds recovery. Desalination, 2004, 163, 39-46.	4.0	43
85	Impact of DEA solutions with and without CO2 loading on porous polypropylene membranes intended for use as contactors. Journal of Membrane Science, 2004, 229, 147-157.	4.1	121
86	Super selective membranes in gas–liquid membrane contactors for olefin/paraffin separation. Journal of Membrane Science, 2004, 232, 107-114.	4.1	60
87	Composite hollow fiber membranes for organic solvent-based liquid–liquid extraction. Journal of Membrane Science, 2004, 234, 1-10.	4.1	35
88	CO2 absorption at elevated pressures using a hollow fiber membrane contactor. Journal of Membrane Science, 2004, 235, 99-109.	4.1	175
89	Influence of random arrangement of hollow fiber membranes on shell side mass transfer performance: a novel model prediction. Journal of Membrane Science, 2004, 236, 145-151.	4.1	29
90	Removal of pollutants from indoor air using zeolite membranes. Journal of Membrane Science, 2004, 240, 159-166.	4.1	92
91	Improved kinetics-based gold cyanide extraction with mixture of LIX79+TOPO utilizing hollow fiber membrane contactors. Chemical Engineering Journal, 2004, 100, 11-22.	6.6	21
92	Absorption of Carbon Dioxide Characterized by Using the Absorbent Composed of Piperazine and Triethanolamine. Separation Science and Technology, 2004, 39, 3281-3300.	1.3	21

#	Article	IF	CITATIONS
93	Modeling and Experimental Study of Carbon Dioxide Absorption in Aqueous Alkanolamine Solutions Using a Membrane Contactor. Industrial & Engineering Chemistry Research, 2004, 43, 4908-4921.	1.8	132
94	Analysis of the Complexation Reaction between Ag+ and Ethylene. Industrial & Engineering Chemistry Research, 2004, 43, 2627-2635.	1.8	45
95	Production of concentrated kiwifruit juice by integrated membrane process. Food Research International, 2004, 37, 139-148.	2.9	100
96	Hydrotreating Catalysts and Processes. , 2005, , 1357-1365.		0
97	Oxygen transfer performance of a membrane oxygenator composed of crossed and parallel hollow fibers. Biochemical Engineering Journal, 2005, 24, 105-113.	1.8	24
98	Influence of membrane wetting on CO2 capture in microporous hollow fiber membrane contactors. Separation and Purification Technology, 2005, 46, 33-40.	3.9	345
99	The melt processing of polymer microcapillary film (MCF). Journal of Non-Newtonian Fluid Mechanics, 2005, 128, 83-98.	1.0	51
100	Mass transfer studies in flat-sheet membrane contactor with ozonation. Journal of Membrane Science, 2005, 247, 153-167.	4.1	51
101	Application of pilot-scale membrane contactor hybrid system for removal of carbon dioxide from flue gas. Journal of Membrane Science, 2005, 257, 156-160.	4.1	137
102	Comparative performance of non-dispersive solvent extraction using a single module and the integrated membrane process with two hollow fiber contactors. Journal of Membrane Science, 2005, 248, 1-14.	4.1	44
103	Mass transfer in extractive ultrafiltration of \hat{l}_{\pm} -phenylglycine with TOMACI in a hollow fiber contactor. Journal of Membrane Science, 2005, 252, 9-18.	4.1	6
104	Membrane contactors for the recovery of metallic compounds. Journal of Membrane Science, 2005, 257, 161-170.	4.1	55
105	Dense gas extraction using a hollow fiber membrane contactor: experimental results versus model predictions. Journal of Membrane Science, 2005, 257, 11-36.	4.1	36
106	Membrane-based solvent extraction and stripping of phenylalanine in HF contactors. Journal of Membrane Science, 2005, 257, 37-47.	4.1	28
107	Mass transfer analysis on air stripping of VOCs from water in microporous hollow fibers. Journal of Membrane Science, 2005, 255, 79-87.	4.1	36
108	A predictive model for the extraction and simultaneous stripping of phenylglycine from alkaline solutions using membrane contactors. Journal of Membrane Science, 2005, 255, 133-140.	4.1	8
109	Shell side mass transfer in a transverse flow hollow fiber membrane contactor. Journal of Membrane Science, 2005, 261, 114-120.	4.1	31
110	Preparation of highly asymmetric hollow fiber membranes from poly(ether imide) by a modified dry–wet phase inversion technique using a triple spinneret. Journal of Membrane Science, 2005, 262, 69-80.	4.1	35

#	Article	IF	CITATIONS
111	Selection of microporous hydrophobic membranes for use in gas/liquid contactors: An experimental approach. Journal of Membrane Science, 2005, 263, 66-76.	4.1	36
112	Distillation with nanoporous or coated hollow fibers. Journal of Membrane Science, 2005, 257, 3-10.	4.1	31
113	Hollow fiber membrane contactorsâ€"A means to study the reaction kinetics of humic substance ozonation. Journal of Membrane Science, 2005, 257, 48-59.	4.1	40
114	Transport of water vapor and inert gas mixtures through highly selective and highly permeable polymer membranes. Journal of Membrane Science, 2005, 251, 29-41.	4.1	218
115	Modified modeling of the effect of pH and viscosity on the mass transfer in hydrophobic hollow fiber membrane contactors. Journal of Membrane Science, 2005, 250, 269-276.	4.1	98
116	Modelling of cross-flow membrane contactors: physical mass transfer processes. Journal of Membrane Science, 2005, 251, 209-222.	4.1	45
117	Liquid–liquid extraction of cobalt with hollow fiber contactor. Journal of Membrane Science, 2005, 252, 183-194.	4.1	42
118	Mass transfer enhancement in coiled hollow fiber membrane modules. Journal of Membrane Science, 2005, 264, 113-121.	4.1	34
119	Ozone transfer and design concepts for NOM decolourization in tubular membrane contactor. Chemical Engineering Journal, 2005, 111, 53-61.	6.6	27
120	Novel porous poly (vinylidene fluoride) membranes for membrane distillation. Desalination, 2005, 183, 375-382.	4.0	67
121	State of the Art and Recent Progresses in Membrane Contactors. Chemical Engineering Research and Design, 2005, 83, 223-233.	2.7	133
122	Extraction separation of Co(II)/Ni(II) from concentrated HCl solutions in rotating disc and hollow-fiber membrane contactors. Separation and Purification Technology, 2005, 42, 65-73.	3.9	19
123	Recovery and separation of organic acids by membrane-based solvent extraction and pertraction. Separation and Purification Technology, 2005, 41, 237-266.	3.9	138
124	Design and simulation of two phase hollow fiber contactors for simultaneous membrane based solvent extraction and stripping of organic acids and bases. Separation and Purification Technology, 2005, 41, 275-287.	3.9	30
125	Review of CO2 absorption using chemical solvents in hollow fiber membrane contactors. Separation and Purification Technology, 2005, 41, 109-122.	3.9	481
126	Production of 2-phenylethanol and 2-phenylethylacetate fromL-phenylalanine by coupling whole-cell biocatalysis with organophilic pervaporation. Biotechnology and Bioengineering, 2005, 92, 624-634.	1.7	77
127	Modeling the mass transfer in solvent-extraction processes with hollow-fiber membranes. AICHE Journal, 2005, 51, 1067-1079.	1.8	34
128	Rearrangement of hollow fibers for enhancing oxygen transfer in an artificial gill using oxygen carrier solution. Journal of Membrane Science, 2005, 254, 207-217.	4.1	28

#	ARTICLE	IF	CITATIONS
129	Use of microporous hollow fibers for improved biodegradation of high-strength phenol solutions. Journal of Membrane Science, 2005, 258, 55-63.	4.1	33
130	Kinetic analysis of non-dispersive solvent extraction of concentrated Co(II) from chloride solutions with Aliquat 336: Significance of the knowledge of reaction equilibrium. Journal of Membrane Science, 2005, 264, 104-112.	4.1	16
131	Experimental results versus model predictions for dense gas extraction using a hollow fiber membrane contactor. Journal of Supercritical Fluids, 2005, 35, 26-39.	1.6	16
132	Numerical mass balances for cross flow membrane contactors and their approximations. Korean Journal of Chemical Engineering, 2005, 22, 479-482.	1.2	0
133	Mathematical Model of a Countercurrent Flow Multi-fibre Dialyser. World Journal of Microbiology and Biotechnology, 2005, 21, 791-796.	1.7	1
134	Membrane distillation., 2005,, 241-319.		16
135	Removal of Benzene/Toluene from Water by Vacuum Membrane Distillation in a PVDF Hollow Fiber Membrane Module. Separation Science and Technology, 2005, 40, 2679-2695.	1.3	31
136	Aqueous Micellar Solvent Extraction of Phenol from Wastewater. Separation Science and Technology, 2005, 40, 1653-1672.	1.3	8
138	Membrane Gas Absorbers for H ₂ S Removal – Design, Operation and Technology Integration into Existing Odour Treatment Strategies. Environmental Technology (United Kingdom), 2005, 26, 793-804.	1.2	10
139	Membrane Distillation and Related Operations—A Review. Separation and Purification Reviews, 2005, 34, 35-86.	2.8	604
140	Hollow Fiber Membrane Contactor Based CO2Absorptionâ^Stripping Using Novel Solvents and Membranes. Industrial & Description Chemistry Research, 2005, 44, 1250-1258.	1.8	96
141	Selective Separation of Zinc and Iron from Spent Pickling Solutions by Membraneâ€Based Solvent Extraction: Process Viability. Separation Science and Technology, 2005, 39, 2441-2455.	1.3	43
142	Advantages in the Use of Membrane Contactors for the Study of Gasâ^'Liquid and Gasâ^'Liquidâ^'Solid Reactions. Industrial & Engineering Chemistry Research, 2005, 44, 9451-9460.	1.8	2
143	Absorption of CO2into Aqueous Solutions of Methyldiethanolamine and Activated Methyldiethanolamine from a Gas Mixture in a Hollow Fiber Contactor. Industrial & Digineering Chemistry Research, 2005, 44, 9230-9238.	1.8	73
144	Basic principles of membrane contactors. Membrane Science and Technology, 2006, , 5-39.	0.5	0
145	Module configurations and design. Membrane Science and Technology, 2006, 11, 105-126.	0.5	O
146	Gas – liquid systems. Membrane Science and Technology, 2006, 11, 127-162.	0.5	0
147	Liquid – liquid extractions. Membrane Science and Technology, 2006, , 163-185.	0.5	0

#	Article	IF	CITATIONS
148	Enhanced biodegradation of mixed phenol and sodium salicylate by Pseudomonas putida in membrane contactors. Water Research, 2006, 40, 3517-3526.	5.3	16
149	Gas absorption in a hollow-fiber membrane contactor with pseudo-plastic liquid as an absorbent. Desalination, 2006, 193, 286-290.	4.0	10
150	Effect of additives in the casting solution on the formation of PVDF membranes. Desalination, 2006, 192, 190-197.	4.0	295
151	Treatment of highly-concentrated phenol wastewater with an extractive membrane reactor using silicone rubber. Desalination, 2006, 195, 281-293.	4.0	42
152	Separation of effluents from regeneration of a cation exchanger by membrane distillation. Desalination, 2006, 197, 50-62.	4.0	6
153	Modelling nutrient transport in hollow fibre membrane bioreactors for growing three-dimensional bone tissue. Journal of Membrane Science, 2006, 272, 169-178.	4.1	71
154	Study of mass transfer performance of naproxen acid and ester through a multiphase enzyme-loaded membrane system. Journal of Membrane Science, 2006, 276, 59-67.	4.1	29
155	Simultaneous reactive extraction separation of amino acids from water with D2EHPA in hollow fiber contactors. Journal of Membrane Science, 2006, 280, 771-780.	4.1	14
156	A study of mass transfer in hollow-fiber membrane contactors—The effect of fiber packing fraction. Journal of Membrane Science, 2006, 282, 430-441.	4.1	23
157	Theoretical estimation of shell-side mass transfer coefficient in randomly packed hollow fiber modules with polydisperse hollow fiber outer radii. Journal of Membrane Science, 2006, 284, 95-101.	4.1	12
158	Guidelines for the application of a stationary model in the prediction of the overall mass transfer coefficient in a hollow fiber membrane contactor. Separation and Purification Technology, 2006, 50, 97-106.	3.9	13
159	Carbon dioxide removal from air by microalgae cultured in a membrane-photobioreactor. Separation and Purification Technology, 2006, 50, 324-329.	3.9	259
160	A study of mass transfer resistance in membrane gas–liquid contacting processes. Journal of Membrane Science, 2006, 272, 103-115.	4.1	209
161	An analytical study of laminar co-current flow gas absorption through a parallel-plate gas–liquid membrane contactor. Journal of Membrane Science, 2006, 278, 181-189.	4.1	19
162	Hollow fibers as structured packing for olefin/paraffin separations. Journal of Membrane Science, 2006, 279, 61-69.	4.1	41
163	Modeling and experimental study of CO2 absorption in a hollow fiber membrane contactor. Journal of Membrane Science, 2006, 279, 301-310.	4.1	152
164	Highly selective facilitated transport membranes for isoprene/n-pentane separation. Journal of Membrane Science, 2006, 279, 403-409.	4.1	6
165	Membrane-based solvent extraction of aroma compounds: Choice of configurations of hollow fiber modules based on experiments and simulation. Journal of Membrane Science, 2006, 281, 358-368.	4.1	48

#	Article	IF	Citations
166	Role of membrane-attached biofilm in the biodegradation of phenol and sodium salicylate in microporous membrane bioreactors. Journal of Membrane Science, 2006, 282, 484-492.	4.1	14
167	Effect of membrane structure on mass-transfer in the membrane gas–liquid contacting process using microporous PVDF hollow fibers. Journal of Membrane Science, 2006, 285, 272-281.	4.1	234
168	A theoretical study of dense gas extraction using a hollow fiber membrane contactor. Journal of Supercritical Fluids, 2006, 37, 157-172.	1.6	13
169	Simulation study of a hybrid absorber–heat exchanger using hollow fiber membrane module for the ammonia–water absorption cycle. International Journal of Refrigeration, 2006, 29, 1043-1052.	1.8	41
170	Selective mass transfer in a membrane absorber. Journal of Engineering Physics and Thermophysics, 2006, 79, 864-874.	0.2	1
171	Removal of 1,1,1-trichloroethane from water using a polyvinylidene fluoride hollow fiber membrane module: Vacuum membrane distillation operation. Separation and Purification Technology, 2006, 52, 301-309.	3.9	83
172	Mass transfer in liquid–liquid membrane-based extraction at small fiber packing fractions. Journal of Membrane Science, 2006, 271, 151-162.	4.1	28
173	Hollow fiber membrane contactor for air humidity control: Modules and membranes. Journal of Membrane Science, 2006, 276, 241-251.	4.1	101
174	Membrane air-stripping of aroma compounds. Journal of Membrane Science, 2006, 277, 129-136.	4.1	27
175	Using polypropylene and polytetrafluoroethylene membranes in a membrane contactor for CO2 absorption. Journal of Membrane Science, 2006, 277, 99-107.	4.1	197
176	Facilitated transport of CO2 across a liquid membrane: Comparing enzyme, amine, and alkaline. Journal of Membrane Science, 2006, 280, 330-334.	4.1	127
177	Comparison of membrane extraction with traditional extraction methods for biodiesel production. JAOCS, Journal of the American Oil Chemists' Society, 2006, 83, 457-460.	0.8	69
178	Bioseparations in Aqueous Micellar Systems Based on Excluded-Volume Interactions. Food and Bioproducts Processing, 2006, 84, 51-58.	1.8	5
179	Liquid-liquid and liquid-gas extraction of aroma compounds with hollow fibers. AICHE Journal, 2006, 52, 2079-2088.	1.8	11
180	Membrane and filtration technologies and the separation and recovery of food processing waste. , $2007, , 258-281.$		1
181	Recovery of Sulfur Dioxide Using Non-Dispersive Absorption. International Journal of Chemical Reactor Engineering, 2007, 5, .	0.6	4
182	Selective recovery of heavy metals from hot-dip galvanising effluent streams by membrane-based solvent extraction. International Journal of Water, 2007, 3, 407.	0.1	2
183	Microbial degradation of phenol in high-salinity solutions in suspensions and hollow fiber membrane contactors. Chemosphere, 2007, 66, 191-198.	4.2	21

#	Article	lF	CITATIONS
184	Separation of Alcoholâ^'Water Solutions by Distillation through Hollow Fibers. Industrial & Engineering Chemistry Research, 2007, 46, 7820-7825.	1.8	10
185	Mass-Transfer Efficiency of Membrane Extraction in Laminar Flow between Parallel-Plate Channels: Theoretical and Experimental Studies. Industrial & Engineering Chemistry Research, 2007, 46, 7788-7801.	1.8	2
186	Kinetics of Zinc Recovery from Spent Pickling Effluents. Industrial & Engineering Chemistry Research, 2007, 46, 907-912.	1.8	28
187	Propylene/Propane Separation with a Gas/Liquid Membrane Contactor Using a Silver Salt Solution. Industrial & Contactor Using a Silver Salt Solution.	1.8	31
188	Optimization of Carbon Dioxide Fixation by <i>Chlorella vulgaris</i> Cultivated in a Membraneâ€Photobioreactor. Chemical Engineering and Technology, 2007, 30, 1094-1099.	0.9	96
189	Modeling extraction separation of Nd(III) and La(III) from nitrate media in hollow-fiber modules. AICHE Journal, 2007, 53, 561-571.	1.8	8
190	Membrane engineering for process intensification: a perspective. Journal of Chemical Technology and Biotechnology, 2007, 82, 223-227.	1.6	74
191	Membrane contactors for the extraction process with subcritical carbon dioxide or propane: Simulation of the influence of operating parameters. Journal of Supercritical Fluids, 2007, 41, 246-256.	1.6	21
192	Modeling and simulation of mass transfer in near-critical extraction using a hollow fiber membrane contactor. Chemical Engineering Science, 2007, 62, 5794-5808.	1.9	22
193	Copper removal from ammoniacal wastewater through a hollow fiber supported liquid membrane system: Modeling and experimental verification. Journal of Membrane Science, 2007, 297, 121-129.	4.1	58
194	Effect of hollow fiber morphology and compatibility on propane/propylene separation. Journal of Membrane Science, 2007, 304, 88-101.	4.1	13
195	Recovery of phenol from aqueous solutions using liquid membranes with Cyanex 923. Journal of Membrane Science, 2007, 305, 313-324.	4.1	109
196	Study on highly hydrophilic cellulose hollow fiber membrane contactors for thiol sulfur removal. Journal of Membrane Science, 2007, 305, 247-256.	4.1	13
197	Effects of activators on mass-transfer enhancement in a hollow fiber contactor using activated alkanolamine solutions. Journal of Membrane Science, 2007, 289, 138-149.	4.1	71
198	Study of mass and heat transfer in the osmotic evaporation process using hollow fibre membrane contactors. Journal of Membrane Science, 2007, 289, 249-257.	4.1	17
199	Vacuum assisted removal of volatile to semi volatile organic contaminants from water using hollow fiber membrane contactorsII: A hybrid numerical-analytical modeling approach. Journal of Membrane Science, 2007, 292, 17-28.	4.1	15
200	Carbon dioxide recovery from post-combustion processes: Can gas permeation membranes compete with absorption?. Journal of Membrane Science, 2007, 294, 50-59.	4.1	354
201	Separation of CO2 from CH4 by using gas–liquid membrane contacting process. Journal of Membrane Science, 2007, 304, 163-172.	4.1	181

#	Article	IF	CITATIONS
202	Racemic resolution of propranolol in membrane contactors: Modelling and process optimisation. Journal of Membrane Science, 2007, 305, 203-214.	4.1	13
203	Computer design of recycle membrane contactor systems for gas separation. Separation and Purification Technology, 2007, 57, 450-454.	3.9	8
204	Distillation of methanol–water solution in hollow fibers. Separation and Purification Technology, 2007, 56, 143-149.	3.9	15
205	Determination of short-chain fatty acids in serum by hollow fiber supported liquid membrane extraction coupled with gas chromatography. Journal of Chromatography B: Analytical Technologies in the Biomedical and Life Sciences, 2007, 846, 202-208.	1.2	95
206	Effect of nonequilibrium absorption on gas transport in heterogeneous systems. Theoretical Foundations of Chemical Engineering, 2007, 41, 257-263.	0.2	0
207	Removal of CO2by Single and Blended Aqueous Alkanolamine Solvents in Hollow-Fiber Membrane Contactor:Â Modeling and Simulation. Industrial & Description Chemistry Research, 2007, 46, 2576-2588.	1.8	66
208	Recent advances in supported liquid membrane technology. Separation and Purification Technology, 2007, 53, 171-177.	3.9	397
209	Vacuum assisted removal of volatile to semi-volatile organic contaminants from water using hollow fiber membrane contactorsl: Experimental results. Journal of Membrane Science, 2007, 292, 9-16.	4.1	9
210	A novel method to prepare high chitosan content blend hollow fiber membranes using a non-acidic dope solvent for highly enhanced adsorptive performance. Journal of Membrane Science, 2007, 302, 150-159.	4.1	39
211	Application of seawater to enhance SO2 removal from simulated flue gas through hollow fiber membrane contactor. Journal of Membrane Science, 2008, 312, 6-14.	4.1	51
212	Use of membrane contactors as two-phase bioreactors for the removal of phenol in saline and acidic solutions. Journal of Membrane Science, 2008, 313, 207-216.	4.1	17
213	CO2 transfer in an aqueous potassium carbonate liquid membrane module with dense polymeric supporting layers: Influence of concentration, circulation flow rate and temperature. Journal of Membrane Science, 2008, 318, 317-326.	4.1	16
214	Absorption of SO2 from flue gas using PVDF hollow fiber membranes in a gas–liquid contactor. Journal of Membrane Science, 2008, 319, 29-37.	4.1	111
215	Potential of membrane distillation in seawater desalination: Thermal efficiency, sensitivity study and cost estimation. Journal of Membrane Science, 2008, 323, 85-98.	4.1	700
216	Mathematical modeling of gas–liquid membrane contactors using random distribution of fibers. Journal of Membrane Science, 2008, 325, 98-108.	4.1	49
217	Sulfur dioxide nonâ€dispersive absorption in N,Nâ€dimethylaniline using a ceramic membrane contactor. Journal of Chemical Technology and Biotechnology, 2008, 83, 1570-1577.	1.6	17
218	Hollow fiber membrane contactor for hydrogen sulfide odor control. AICHE Journal, 2008, 54, 122-131.	1.8	19
219	Absorption of carbon dioxide by the absorbent composed of piperazine and 2-amino-2-methyl-1-propanol in PVDF membrane contactor. Journal of the Taiwan Institute of Chemical Engineers, 2008, 39, 13-21.	1.4	60

#	Article	IF	CITATIONS
220	Theoretical and experimental studies of membrane wetting in the membrane gas–liquid contacting process for CO2 absorption. Journal of Membrane Science, 2008, 308, 162-170.	4.1	140
221	Wetting mechanism in mass transfer process of hydrophobic membrane gas absorption. Journal of Membrane Science, 2008, 308, 180-190.	4.1	150
222	Solvent distillation by ceramic hollow fibre membrane contactors. Journal of Membrane Science, 2008, 314, 58-66.	4.1	28
223	Fabrication of a superhydrophobic polypropylene membrane by deposition of a porous crystalline polypropylene coating. Journal of Membrane Science, 2008, 318, 107-113.	4.1	78
224	Mass transfer characteristics for VOC permeation through flat sheet porous and composite membranes: The impact of the different membrane layers on the overall membrane resistance. Journal of Membrane Science, 2008, 322, 234-242.	4.1	25
225	Extraction of aroma compounds in a HFMC: Dynamic modelling and simulation. Journal of Membrane Science, 2008, 323, 386-394.	4.1	28
226	Evaluation of a membrane-sparged helical tubular photobioreactor for carbon dioxide biofixation by Chlorella vulgaris. Journal of Membrane Science, 2008, 325, 336-345.	4.1	112
227	Extraction of surfactin from fermentation broth with n-hexane in microporous PVDF hollow fibers: Significance of membrane adsorption. Journal of Membrane Science, 2008, 325, 599-604.	4.1	21
228	CO2 removal from a gas stream by membrane contactor. Separation and Purification Technology, 2008, 59, 85-90.	3.9	71
229	Mass transfer study and modeling of gas–liquid membrane contacting process by multistage cascade model for CO2 absorption. Separation and Purification Technology, 2008, 63, 15-22.	3.9	78
230	Mathematical modeling of the simultaneous absorption of carbon dioxide and hydrogen sulfide in a hollow fiber membrane contactor. Separation and Purification Technology, 2008, 63, 145-155.	3.9	63
231	Recovery of copper from ammoniacal medium using liquid membranes with LIX 54. Separation and Purification Technology, 2008, 63, 287-296.	3.9	34
232	Experimental observations on the effect of added dispersing agent on phenol biodegradation in a microporous membrane bioreactor. Journal of Hazardous Materials, 2008, 151, 746-752.	6.5	13
233	Analysis of CO2 separation and simulation of a partially wetted hollow fiber membrane contactor. Journal of Hazardous Materials, 2008, 152, 1237-1247.	6.5	95
234	Theoretical study on membrane extraction of Cu2+ with D2EHPA in laminar flow circular tube modules. Desalination, 2008, 233, 247-257.	4.0	10
235	Absorption of sulfur dioxide by porous hydrophobic membrane contactor. Desalination, 2008, 234, 252-260.	4.0	20
236	A study on pilot-scale degassing by polypropylene (PP) hollow fiber membrane contactors. Desalination, 2008, 234, 316-322.	4.0	37
237	A membrane process to recover extractant D2EHPA in aqueous phase. Chemical Engineering Journal, 2008, 145, 164-168.	6.6	3

#	Armdumath altimg="si59.gif" display="inline" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema"	IF	CITATIONS
238	xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd"	1.9	34
239	xmins:sb= mttp://www.elsevier.com/xmi/common/struct-bio/dtd xmlns:ce="http://www.elsevier.com/x Solubility of volatile organic compounds in polymers: Effect of polymer type and processing. Journal of Membrane Science, 2008, 312, 107-114.	4.1	8
240	Theoretical studies on separation of CO2 by single and blended aqueous alkanolamine solvents in flat sheet membrane contactor (FSMC). Chemical Engineering Journal, 2008, 144, 352-360.	6.6	48
241	lon-exchanged zeolite X membranes: synthesis and characterisation. Membrane Technology, 2008, 2008, 9-11.	0.5	7
242	Membranes, Phase Interfaces, and Separations: Novel Techniques and Membranes—An Overview. Industrial & Description (1988) amp; Engineering Chemistry Research, 2008, 47, 5250-5266.	1.8	88
243	Generation of Local Concentration Gradients by Gasâ^'Liquid Contacting. Analytical Chemistry, 2008, 80, 3190-3197.	3.2	20
244	Sorption of hydrophobic organic compounds (HOC) in rapeseed oil bodies. Chemosphere, 2008, 70, 1452-1458.	4.2	18
245	A Study of the Mass Transfer of CO ₂ through Different Membrane Materials in the Membrane Gas Absorption Process. Separation Science and Technology, 2008, 43, 225-244.	1.3	49
246	Arrest of Fluid Demixing by Nanoparticles: A Computer Simulation Study. Langmuir, 2008, 24, 6549-6556.	1.6	46
247	Fluid-bicontinuous gels stabilized by interfacial colloids: low and high molecular weight fluids. Journal of Physics Condensed Matter, 2008, 20, 113101.	0.7	41
248	Removal of Acid Gas Emissions Using Hollow Fiber Gas Absorption Membrane Contactors. , 2008, , .		0
249	Future Progresses in Membrane Engineering. , 2008, , 1131-1145.		0
251	Liquid Membrane-Based Separations of Actinides. , 2008, , 883-917.		6
252	Membrane Technologies and Supercritical Fluids. , 2008, , 181-192.		0
253	Removal of Acid Gas Emissions Using Hollow Fiber Gas Absorption Membrane Contactors. , 0, , .		0
255	Membrane Contactors in Industrial Applications. , 0, , 499-512.		5
256	Progress of enzyme immobilization and its potential application. Desalination and Water Treatment, 2009, 1, 157-171.	1.0	14
257	Effects of Dissolved Oxygen in Fruit Juices and Methods of Removal. Comprehensive Reviews in Food Science and Food Safety, 2009, 8, 409-423.	5.9	49

#	Article	IF	CITATIONS
258	An overview of the mathematical modelling of liquid membrane separation processes in hollow fibre contactors. Journal of Chemical Technology and Biotechnology, 2009, 84, 1583-1614.	1.6	65
259	Application of ozonation membrane contacting system for dye wastewater treatment. Separation and Purification Technology, 2009, 66, 153-158.	3.9	48
260	Phenol recovery with tributyl phosphate in a hollow fiber membrane contactor: Experimental and model analysis. Separation and Purification Technology, 2009, 69, 48-56.	3.9	54
261	CO2 absorption by using PVDF hollow fiber membrane contactors with various membrane structures. Separation and Purification Technology, 2009, 69, 210-220.	3.9	105
262	Estimation of the contribution of immobilized biofilm and suspended biomass to the biodegradation of phenol in membrane contactors. Biochemical Engineering Journal, 2009, 43, 122-128.	1.8	7
263	Surface modification of zeolites using benzene-1,4-diboronic acid to form gated micropores with mild and photo responsive pore reopening. Chemical Engineering Journal, 2009, 146, 520-526.	6.6	10
264	Hollow fiber membrane contactor transient experiments for the characterization of gas/liquid thermodynamics and mass transfer properties. Chemical Engineering Science, 2009, 64, 265-275.	1.9	35
265	Efficient transport and selective extraction of Cr(VI) from waste pickling solution of the stainless steel-cold rolled plate process using Aliquat 336 via HFSLM. Korean Journal of Chemical Engineering, 2009, 26, 791-798.	1.2	12
266	Effects of baffles on separation of aqueous ethanol solution with hollow fibers. Frontiers of Chemical Engineering in China, 2009, 3, 68-72.	0.6	3
267	Membrane-based CO2 absorption into blended amine solutions. Journal of Fuel Chemistry and Technology, 2009, 37, 740-746.	0.9	27
268	Study on transport of Dy(III) by dispersion supported liquid membrane. Journal of Rare Earths, 2009, 27, 447-456.	2.5	33
269	Characteristics of the membrane utilized in a compact absorber for lithium bromide–water absorption chillers. International Journal of Refrigeration, 2009, 32, 1886-1896.	1.8	68
270	Vacuum membrane distillation of the main pear aroma compound: Experimental study and mass transfer modeling. Journal of Membrane Science, 2009, 326, 64-75.	4.1	75
271	Zero solvent emission process for sulfur dioxide recovery using a membrane contactor and ionic liquids. Journal of Membrane Science, 2009, 330, 80-89.	4.1	105
272	Extraction and permeation studies of $Cd(II)$ in acidic and neutral chloride media using Cyanex 923 on supported liquid membrane. Hydrometallurgy, 2009, 96, 81-87.	1.8	45
273	A study on a combined process for the treatment of phenolic resin plant effluents. Journal of Hazardous Materials, 2009, 169, 659-666.	6.5	5
274	Multipass membrane air-stripping (MAS) for removing volatile organic compounds (VOCs) from surfactant micellar solutions. Journal of Hazardous Materials, 2009, 170, 1070-1078.	6.5	18
275	Hollow fiber gas–liquid membrane contactors for acid gas capture: A review. Journal of Hazardous Materials, 2009, 171, 38-53.	6.5	317

#	ARTICLE	IF	CITATIONS
276	Concentration of noni juice by means of osmotic distillation. Journal of Membrane Science, 2009, 330, 205-213.	4.1	61
277	Highly porous and macrovoid-free PVDF hollow fiber membranes for membrane distillation by a solvent-dope solution co-extrusion approach. Journal of Membrane Science, 2009, 331, 66-74.	4.1	148
278	Absorption of carbon dioxide by mixed piperazine–alkanolamine absorbent in a plasma-modified polypropylene hollow fiber contactor. Journal of Membrane Science, 2009, 333, 30-37.	4.1	59
279	Carbon dioxide removal from anaesthetic gas circuits using hollow fiber membrane contactors with amino acid salt solutions. Journal of Membrane Science, 2009, 339, 275-286.	4.1	19
280	Gas–liquid membrane contactors for CO2 removal. Journal of Membrane Science, 2009, 340, 214-220.	4.1	124
281	Modeling and simulation of sour gas membrane-absorption system: Influence of operational parameters on species removal. Journal of Natural Gas Science and Engineering, 2009, 1, 195-204.	2.1	12
282	Comparing membrane resistance and absorption performance of three different membranes in a gas absorption membrane contactor. Separation and Purification Technology, 2009, 65, 290-297.	3.9	183
283	Transport of Tm(III) through dispersion supported liquid membrane containing PC-88A in kerosene as the carrier. Separation and Purification Technology, 2009, 65, 220-227.	3.9	38
284	Experimental study on membrane wetting in gas–liquid membrane contacting process for CO2 absorption by single and mixed absorbents. Separation and Purification Technology, 2009, 69, 118-125.	3.9	109
285	Direct benzene conversion to phenol in a hybrid photocatalytic membrane reactor. Catalysis Today, 2009, 144, 81-86.	2.2	58
286	Characterization of chemical kinetics in membrane-based liquid–liquid extraction of molybdenum(VI) from aqueous solutions. Chemical Engineering Journal, 2009, 151, 333-341.	6.6	29
287	Theoretical and experimental studies of membrane extraction of Cu2+ with D2EHPA through rectangular conduits. Chemical Engineering and Processing: Process Intensification, 2009, 48, 111-119.	1.8	0
288	Modeling extraction separation of Cu(II) in hollow-fiber modules. Chemical Engineering Science, 2009, 64, 3455-3465.	1.9	3
289	Membrane contactor as degasser operated under vacuum for ammonia removal from water: A numerical simulation of mass transfer under laminar flow conditions. Computers and Chemical Engineering, 2009, 33, 1123-1131.	2.0	24
290	Extraction of organic and inorganic compounds from aqueous solutions using hollow fibre liquidliquid contactor. Desalination, 2009, 241, 337-341.	4.0	9
291	Application of a membrane contactor for a simultaneous removal of p -cresol and Cr(III) ions from water solution. Desalination, 2009, 241, 91-96.	4.0	6
292	Absorption of nitrogen dioxide by PVDF hollow fiber membranes in a G–L contactor. Desalination, 2009, 243, 52-64.	4.0	61
293	Determination of mass transfer resistance during absorption of carbon dioxide by mixed absorbents in PVDF and PP membrane contactor. Desalination, 2009, 249, 647-653.	4.0	38

#	Article	IF	CITATIONS
294	Membrane contactor for CO2 absorption applying amino-acid salt solutions. Desalination, 2009, 249, 498-502.	4.0	41
295	Intensification of Mass Transfer in Hollow Fiber Modules by Adding Solid Particles. Industrial & Description of Mass Transfer in Hollow Fiber Modules by Adding Solid Particles. Industrial & Description of Mass Transfer in Hollow Fiber Modules by Adding Solid Particles. Industrial & Description of Mass Transfer in Hollow Fiber Modules by Adding Solid Particles. Industrial & Description of Mass Transfer in Hollow Fiber Modules by Adding Solid Particles. Industrial & Description of Mass Transfer in Hollow Fiber Modules by Adding Solid Particles. Industrial & Description of Mass Transfer in Hollow Fiber Modules by Adding Solid Particles. Industrial & Description of Mass Transfer in Hollow Fiber Modules by Adding Solid Particles. Industrial & Description of Mass Transfer in Hollow Fiber Modules by Adding Solid Particles. Industrial & Description of Mass Transfer in Hollow Fiber Modules by Adding Solid Particles. Industrial & Description of Mass Transfer in Hollow Fiber Modules by Adding Solid Particles. Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in Hollow Fiber Industrial & Description of Mass Transfer in H	1.8	5
296	DECOMPOSITION OF 4-NITROPHENOL BY OZONATION IN A HOLLOW FIBER MEMBRANE REACTOR. Chemical Engineering Communications, 2009, 197, 377-386.	1.5	16
297	Recovery of CO ₂ by Phase Transition from an Aqueous Bicarbonate System under Pressure by Means of Multilayer Gas Permeable Membranes. Energy & Samp; Fuels, 2009, 23, 1770-1774.	2.5	10
298	Influence of fluorocarbon flat-membrane hydrophobicity on carbon dioxide recovery. Chemosphere, 2009, 75, 1410-1416.	4.2	35
301	Preparation of nanoparticles with a gas–liquid membrane contactor. Journal of Membrane Science, 2009, 342, 1-5.	4.1	14
302	Design and deployment of a portable membrane equilibrator for sampling aqueous dissolved gases. Water Resources Research, 2009, 45, .	1.7	16
303	Novel Membrane Contactors Used in Waste Gas/Liquid Separation. Recent Patents on Engineering, 2009, 3, 18-24.	0.3	4
306	Experimental designs dedicated to the evaluation of a membrane extraction method: membrane-assisted solvent extraction for compounds having different polarities by means of gas chromatography–mass detection. Analytical and Bioanalytical Chemistry, 2010, 396, 2285-2292.	1.9	12
307	Production of surfactin and fengycin by Bacillus subtilis in a bubbleless membrane bioreactor. Applied Microbiology and Biotechnology, 2010, 87, 499-507.	1.7	98
308	A novel gas purification system for biologically produced gases. Journal of Cleaner Production, 2010, 18, S43-S50.	4.6	23
309	Ammonia removal from wastewater streams through membrane contactors: Experimental and theoretical analysis of operation parameters and configuration. Chemical Engineering Journal, 2010, 160, 530-537.	6.6	147
310	Modelling of a hollow fibre ceramic contactor for SO2 absorption. Separation and Purification Technology, 2010, 72, 174-179.	3.9	50
311	Ozonation of dye wastewater by membrane contactor using PVDF and PTFE membranes. Separation and Purification Technology, 2010, 72, 186-193.	3.9	78
312	Ozone mass transfer in an ozone–water contacting process with Shirasu porous glass (SPG) membranes—A comparative study of hydrophilic and hydrophobic membranes. Separation and Purification Technology, 2010, 72, 347-356.	3.9	52
313	Preparation of nanoparticles with a continuous gas–liquid membrane contactor: Absorption process. Journal of Membrane Science, 2010, 352, 50-54.	4.1	9
314	Effect of operating conditions on the physical and chemical CO2 absorption through the PVDF hollow fiber membrane contactor. Journal of Membrane Science, 2010, 353, 192-200.	4.1	141
315	Preparation of polyvinylidene fluoride hollow fiber membranes for CO2 absorption using phase-inversion promoter additives. Journal of Membrane Science, 2010, 355, 200-207.	4.1	81

#	Article	IF	CITATIONS
316	Wetting of polypropylene hollow fiber membrane contactors. Journal of Membrane Science, 2010, 362, 444-452.	4.1	164
317	Effect of polymer concentration on the structure and performance of polyetherimide hollow fiber membranes. Journal of Membrane Science, 2010, 363, 103-111.	4.1	106
318	Effect of solution extrusion rate on morphology and performance of polyvinylidene fluoride hollow fiber membranes using polyvinyl pyrrolidone as an additive. Chinese Journal of Polymer Science (English Edition), 2010, 28, 527-535.	2.0	4
319	Transport of Tb ³⁺ in Dispersion Supported Liquid Membrane System with Carrier P507. Chinese Journal of Chemistry, 2010, 28, 839-846.	2.6	11
320	Highly Selective Amino Acid Salt Solutions as Absorption Liquid for CO ₂ Capture in Gas–Liquid Membrane Contactors. ChemSusChem, 2010, 3, 939-947.	3.6	26
321	A novel method for obtaining a highâ€concentration chitosan solution and preparing a highâ€strength chitosan hollowâ€fiber membrane with an excellent adsorption capacity. Journal of Applied Polymer Science, 2010, 115, 1913-1921.	1.3	8
322	Liquid membrane technology: fundamentals and review of its applications. Journal of Chemical Technology and Biotechnology, 2010, 85, 2-10.	1.6	196
323	A review on biodiesel production using catalyzed transesterification. Applied Energy, 2010, 87, 1083-1095.	5.1	1,935
324	Recovery of lupanine from Lupinus albus L. leaching waters. Separation and Purification Technology, 2010, 74, 38-43.	3.9	10
325	Effects of shape, porosity, and operating parameters on carbon dioxide recovery in polytetrafluoroethylene membranes. Journal of Hazardous Materials, 2010, 179, 692-700.	6.5	26
326	Experimental and theoretical study on propylene absorption by using PVDF hollow fiber membrane contactors with various membrane structures. Journal of Membrane Science, 2010, 346, 86-97.	4.1	38
327	A mathematical model for gas absorption membrane contactors that studies the effect of partially wetted membranes. Journal of Membrane Science, 2010, 347, 228-239.	4.1	70
328	Removal of carbon dioxide from pressurized CO2–CH4 gas mixture using hollow fiber membrane contactors. Journal of Membrane Science, 2010, 351, 21-27.	4.1	80
329	Separation of propylene/propane mixtures using Ag+–RTIL solutions. Evaluation and comparison of the performance of gas–liquid contactors. Journal of Membrane Science, 2010, 360, 130-141.	4.1	45
330	Oxygen transfer characteristics of hydrophilic treated polypropylene hollow fiber membranes for bubbleless aeration. Journal of Membrane Science, 2010, 362, 47-57.	4.1	22
331	Light hydrocarbon distillation using hollow fibers as structured packings. Journal of Membrane Science, 2010, 362, 86-96.	4.1	14
332	A comparative study on the structure and performance of porous polyvinylidene fluoride and polysulfone hollow fiber membranes for CO2 absorption. Journal of Membrane Science, 2010, 365, 319-328.	4.1	76
333	Removal of percentile level of H2S from pressurized H2S–CH4 gas mixture using hollow fiber membrane contactors and absorption solvents. Journal of Membrane Science, 2010, 360, 436-441.	4.1	34

#	Article	IF	Citations
334	Design of a compact absorber with a hydrophobic membrane contactor at the liquid–vapor interface for lithium bromide–water absorption chillers. Applied Energy, 2010, 87, 1112-1121.	5.1	63
335	High-performance catalytic wet air oxidation (CWAO) of organic acids and phenol in interfacial catalytic membrane contactors under optimized wetting conditions. Catalysis Today, 2010, 157, 327-333.	2.2	14
336	Ammonia removal from aqueous solutions using hollow-fiber membrane contactors. Chemical Engineering Journal, 2010, 162, 242-249.	6.6	127
337	Effect of LiCl concentration in the polymer dope on the structure and performance of hydrophobic PVDF hollow fiber membranes for CO2 absorption. Chemical Engineering Journal, 2010, 165, 980-988.	6.6	109
338	Hybrid rotating pertractor for Zn(II) recovery and separation. Desalination, 2010, 257, 66-72.	4.0	2
339	Removal of As(V) by PVDF hollow fibers membrane contactors using Aliquat-336 as extractant. Desalination, 2010, 264, 193-200.	4.0	53
340	ABSORBSI CO2 DARI CAMPURANNYA DENGAN CH4 ATAU N2 MELALUI KONTAKTOR MEMBRAN SERAT BERONGGA MENGGUNAKAN PELARUT AIR. MAKARA of Technology Series, 2010, 11, .	0.0	1
341	Basic Aspects and Applications of Membrane Processes in Agro-Food and Bulk Biotech Industries. , 2010, , 165-194.		13
342	Membrane Processes for the Production of Bulk Fermentation Products. , 2010, , 121-153.		4
343	Extraction of Copper from Aqueous Solutions by Liquid Membrane Processes. Solvent Extraction and Ion Exchange, 2010, 28, 85-108.	0.8	7
344	Mass Transfer Simulation of Carbon Dioxide Absorption in a Hollow-Fiber Membrane Contactor. Separation Science and Technology, 2010, 45, 515-524.	1.3	48
345	Comparison of shell side mass transfer correlations in randomly packed hollow fiber membrane modules. Desalination and Water Treatment, 2010, 17, 52-56.	1.0	8
346	Shell-Side Mass-Transfer Performance in Hollow-Fiber Membrane Contactors. Solvent Extraction and Ion Exchange, 2010, 28, 817-844.	0.8	61
347	Advanced carbon dioxide (CO 2) gas separation membrane development for power plants. , 2010, , 143-186.		2
348	Ceramic Hollow Fiber Membranes and Their Applications. , 2010, , 253-273.		7
349	Performance of an Absorber With Hydrophobic Membrane Contactor at Aqueous Solution-Water Vapor Interface. Journal of Thermal Science and Engineering Applications, 2010, 2, .	0.8	2
350	Mass Transfer Simulation of Caffeine Extraction by Subcritical CO ₂ in a Hollow-Fiber Membrane Contactor. Solvent Extraction and Ion Exchange, 2010, 28, 267-286.	0.8	36
351	CO2Capture Using Activated Amino Acid Salt Solutions in a Membrane Contactor. Separation Science and Technology, 2010, 45, 1240-1251.	1.3	39

#	Article	IF	CITATIONS
352	Experimental Study of Mass Transfer in Membrane Absorption Process Using Membranes with Different Porosities. Industrial & Engineering Chemistry Research, 2010, 49, 6641-6648.	1.8	20
353	Amino Acid-Salt-Based Complex Absorbents for CO ₂ Capture in a Membrane Contactor. Energy & Capture in a Membrane Contactor.	2.5	20
354	Intensification of Sulfur Dioxide Absorption: Environmental and Economic Optimization. Computer Aided Chemical Engineering, 2010, , 1003-1008.	0.3	2
355	Carbon Dioxide Absorption in a Membrane Contactor with Color Change. Journal of Chemical Education, 2010, 87, 1377-1379.	1.1	5
356	ANALYTICAL AND NUMERICAL SOLUTIONS OF THE MASS CONTINUITY EQUATION IN THE LUMEN SIDE OF A HOLLOW-FIBER MEMBRANE CONTACTOR WITH LINEAR OR NONLINEAR BOUNDARY CONDITIONS. Chemical Engineering Communications, 2010, 197, 709-732.	1.5	10
357	Effects of Pressure on the Recovery of CO2 by Phase Transition from a Seawater System by Means of Multilayer Gas Permeable Membranes. Journal of Physical Chemistry A, 2010, 114, 4003-4008.	1.1	8
358	Bijels Containing Magnetic Particles: A Simulation Study. Langmuir, 2010, 26, 7928-7936.	1.6	34
359	Physicochemical Characteristics of Hollow Fiber Structured Packings in Isopropanol/Water Distillation. Industrial & Engineering Chemistry Research, 2010, 49, 11594-11601.	1.8	13
360	Hollow Fiber Sorbents for Desulfurization of Natural Gas. Industrial & Engineering Chemistry Research, 2010, 49, 12038-12050.	1.8	38
361	CO2 removal from natural gas at high pressure using membrane contactors: Model validation and membrane parametric studies. Journal of Membrane Science, 2010, 365, 232-241.	4.1	51
362	Integrated Membrane Operations in Various Industrial Sectors. , 2010, , 109-164.		19
363	Carbon Dioxide Capture from Flue Gases Using a Cross-Flow Membrane Contactor and the Ionic Liquid 1-Ethyl-3-methylimidazolium Ethylsulfate. Industrial & Engineering Chemistry Research, 2010, 49, 11045-11051.	1.8	171
364	Multiphase Membrane Reactors., 2010,, 81-108.		0
365	Advanced membrane separation processes and technology for carbon dioxide (CO2) capture in power plants., 2010,, 203-242.		3
366	Progress of absorption CO <inf>2</inf> by membrane contactor., 2011,,.		0
367	Preparation and characterization of porous PVDF hollow fiber membranes for CO2 absorption: Effect of different non-solvent additives in the polymer dope. International Journal of Greenhouse Gas Control, 2011, 5, 640-648.	2.3	72
368	Effect of quenching temperature on the performance of poly(vinylidene fluoride) microporous hollow fiber membranes fabricated via thermally induced phase separation technique on the removal of CO2 from CO2-gas mixture. International Journal of Greenhouse Gas Control, 2011, 5, 1550-1558.	2.3	59
369	Purification of Aquacultural Water: Conventional and New Membrane-based Techniques. Separation and Purification Reviews, 2011, 40, 126-160.	2.8	32

#	Article	IF	CITATIONS
370	Membrane Contactors for Postcombustion Carbon Dioxide Capture: A Comparative Study of Wetting Resistance on Long Time Scales. Industrial & Engineering Chemistry Research, 2011, 50, 8237-8244.	1.8	73
371	Absorption of coal combustion flue gases in ionic liquids using different membrane contactors. Desalination and Water Treatment, 2011, 27, 54-59.	1.0	51
372	OXIDATION OF C.I. ACID ORANGE 7 WITH OZONE AND HYDROGEN PEROXIDE IN A HOLLOW FIBER MEMBRANE REACTOR. Chemical Engineering Communications, 2011, 198, 1530-1544.	1.5	5
373	MD Membrane Modules. , 2011, , 227-247.		2
374	Chiral Separations. , 2011, , 737-751.		1
375	Quaternary Ammonium and Phosphonium Ionic Liquids in Chemical and Environmental Engineering. , 0,		22
376	Modelling and process integration of carbon dioxide capture using membrane contactors. Computer Aided Chemical Engineering, 2011, 29, 1261-1265.	0.3	0
377	A Validated Cfd Model to Predict O ₂ and Co ₂ Transfer Within Hollow Fiber Membrane Oxygenators. International Journal of Artificial Organs, 2011, 34, 317-325.	0.7	23
378	Surface modification of polyvinylidene fluoride-co-hexafluoropropylene (PVDF–HFP) hollow fiber membrane for membrane gas absorption. Journal of Membrane Science, 2011, 381, 183-191.	4.1	90
379	Experimental and theoretical mass transfer transient analysis of copper extraction using hollow fiber membrane contactors. Journal of Membrane Science, 2011, 382, 70-81.	4.1	26
380	Preparation and characterization of PES and PSU membrane humidifiers. Journal of Membrane Science, 2011, 383, 197-205.	4.1	15
381	The effect of phase inversion promoters on the structure and performance of polyetherimide hollow fiber membrane using in gas–liquid contacting process. Journal of Membrane Science, 2011, 383, 159-169.	4.1	59
382	Novel designs for improving the performance of hollow fiber membrane distillation modules. Journal of Membrane Science, 2011, 384, 52-62.	4.1	119
383	Development of a membrane dispersion micro-absorber for CO2 capture. Journal of Membrane Science, 2011, 385-386, 123-131.	4.1	15
384	Improving the mass transfer rate in G $\hat{a}\in$ "L membrane contactors with ionic liquids as absorption medium. Recovery of propylene. Journal of Membrane Science, 2011, 385-386, 217-225.	4.1	14
385	Separation of Eu3+ Using a Novel Dispersion Combined Liquid Membrane with P507 in Kerosene as the Carrier. Chinese Journal of Chemical Engineering, 2011, 19, 33-39.	1.7	13
386	Hydrophilic PEEK-WC hollow fibre membrane contactors for chromium (Vi) removal. Desalination, 2011, 283, 16-24.	4.0	43
387	Simulation of heavy metal extraction in membrane contactors using computational fluid dynamics. Desalination, 2011, 281, 422-428.	4.0	42

#	Article	IF	CITATIONS
388	Analysis of the Development of Membrane Technology for Gas Separation and CO ₂ Capture. ACS Symposium Series, 2011, , 7-26.	0.5	6
389	Membrane extraction of 1-phenylethanol from fermentation solution. Chemical Papers, 2011, 65, .	1.0	14
390	Mathematical modeling of the fine purification of gas mixtures by absorption pervaporation. Theoretical Foundations of Chemical Engineering, 2011, 45, 180-184.	0.2	8
391	Chemical absorption of carbon dioxide with asymmetrically heated polytetrafluoroethylene membranes. Journal of Environmental Management, 2011, 92, 1083-1090.	3.8	25
392	Effect of membrane module arrangement of gas–liquid membrane contacting process on CO2 absorption performance: A modeling study. Journal of Membrane Science, 2011, 372, 75-86.	4.1	36
393	Mathematical modeling and numerical simulation of CO2 transport through hollow-fiber membranes. Applied Mathematical Modelling, 2011, 35, 174-188.	2.2	76
394	In situ phenol removal from fed-batch fermentations of solvent tolerant Pseudomonas putida S12 by pertraction. Biochemical Engineering Journal, 2011, 53, 245-252.	1.8	19
395	Kinetics of VOC absorption using capillary membrane contactor. Chemical Engineering Journal, 2011, 168, 1016-1023.	6.6	11
396	Chemical alteration of LDPE hollow fibers exposed to monoethanolamine solutions used as absorbent for CO2 capture process. Separation and Purification Technology, 2011, 80, 338-344.	3.9	23
397	Fundamentals of membrane transport. Korean Journal of Chemical Engineering, 2011, 28, 1-15.	1.2	48
398	Separation of Eu(III) with supported dispersion liquid membrane system containing D2EHPA as carrier and HNO3 solution as stripping solution. Journal of Rare Earths, 2011, 29, 7-14.	2.5	33
399	Synthesis of Hydrogels from Polyallylamine with Carbon Dioxide as Gellant: Development of Reversible CO ₂ Absorbent. Macromolecular Rapid Communications, 2011, 32, 404-410.	2.0	23
400	Nonâ€dispersive absorption for CO ₂ capture: from the laboratory to industry. Journal of Chemical Technology and Biotechnology, 2011, 86, 769-775.	1.6	62
401	Membrane processes and postcombustion carbon dioxide capture: Challenges and prospects. Chemical Engineering Journal, 2011, 171, 782-793.	6.6	195
402	Significance of gas velocity change during the transport of CO2 through hollow fiber membrane contactors. Chemical Engineering Journal, 2011, 168, 593-603.	6.6	30
403	CFD simulation of natural gas sweetening in a gas–liquid hollow-fiber membrane contactor. Chemical Engineering Journal, 2011, 168, 1217-1226.	6.6	180
404	Modeling and simulation of CO2 removal from power plant flue gas by PG solution in a hollow fiber membrane contactor. Advances in Engineering Software, 2011, 42, 612-620.	1.8	61
405	Selectivity control of benzene conversion to phenol using dissolved salts in a membrane contactor. Applied Catalysis A: General, 2011, 393, 340-347.	2.2	13

#	Article	IF	CITATIONS
406	CO2 stripping from water through porous PVDF hollow fiber membrane contactor. Desalination, 2011, 273, 386-390.	4.0	63
407	Mass transfer simulation of solvent extraction in hollow-fiber membrane contactors. Desalination, 2011, 275, 126-132.	4.0	39
408	A developed asymmetric PVDF hollow fiber membrane structure for CO2 absorption. International Journal of Greenhouse Gas Control, 2011, 5, 374-380.	2.3	75
409	Analytical mass transfer solution of longitudinal laminar flow of Happel's free surface model. International Journal of Heat and Mass Transfer, 2011, 54, 4000-4008.	2.5	6
410	Membrane contactors operating in mild conditions for liquid phase partial oxidation of methane. Journal of Membrane Science, 2011, 366, 139-147.	4.1	9
411	A modeling study on the effects of membrane characteristics and operating parameters on physical absorption of CO2 by hollow fiber membrane contactor. Journal of Membrane Science, 2011, 380, 21-33.	4.1	72
412	Membrane stripping: Desorption of carbon dioxide from alkali solvents. Journal of Membrane Science, 2011, 378, 18-27.	4.1	74
413	Extraction of betaine from beet molasses using membrane contactors. Journal of Membrane Science, 2011, 372, 258-268.	4.1	12
414	Simultaneous separation of H2S and CO2 from natural gas by hollow fiber membrane contactor using mixture of alkanolamines. Journal of Membrane Science, 2011, 377, 191-197.	4.1	70
415	Experimental and theoretical considerations on breakthrough pressure in membrane-based solvent extraction: Focus on citrus essential oil/hydro-alcoholic solvent systems with low interfacial tension. Journal of Membrane Science, 2011, 378, 203-213.	4.1	20
416	Preparation of palladium nanocrystals by membrane absorption of hydrogen. Journal of Membrane Science, 2011, 380, 63-67.	4.1	9
417	Insights on natural gas purification: Simultaneous absorption of CO2 and H2S using membrane contactors. Separation and Purification Technology, 2011, 76, 351-361.	3.9	82
418	Fluid Hydrodynamics in a Single Inlet and Multi-Inlet Hollow Fiber Module. Advanced Materials Research, 2011, 217-218, 796-801.	0.3	0
419	Membrane Contactor as Reactor for CO2 Capture. International Journal of Chemical Reactor Engineering, 2011, 9, .	0.6	1
420	A â€~cold' actinide partitioning run at 20ÂL scale with hollow fibre supported liquid membrane using diglycolamide extractants. Radiochimica Acta, 2011, 99, 815-821.	0.5	11
421	Polymeric membranes for natural gas processing. , 2011, , 339-360.		8
422	Hollow-Fiber Membrane Extraction of Copper from Aqueous Nitrate Media by LIX® Reagents: Comparison of Extraction Efficiency and Fractional Resistances. Solvent Extraction and Ion Exchange, 2011, 29, 128-145.	0.8	5
423	Direct Contact Membrane Distillation. , 2011, , 249-293.		23

#	Article	IF	CITATIONS
424	Improvement of CO ₂ Separation Performance by Blended Aqueous Solutions of DEA+AMP in Hollow Fiber Membrane Contactor (HFMC). Advanced Materials Research, 0, 512-515, 2308-2316.	0.3	3
425	Mass Transfer Process in Nonporous Tubular Membrane for Extraction of Phenol with Caustic Stripping Solution. Advanced Materials Research, 2012, 610-613, 1229-1232.	0.3	1
426	The Application of Membrane Contactors for the Removal of Ammonium from Anaerobic Digester Effluent. Separation Science and Technology, 2012, 47, 1436-1442.	1.3	48
427	SIMULATION AND PROCESS OPTIMIZATION OF A MEMBRANE-BASED DENSE GAS EXTRACTION USING HOLLOW FIBER CONTACTORS. Chemical Engineering Communications, 2012, 199, 644-657.	1.5	2
428	X-ray and FIB Tomography of Extremely High Surface Area Nanostructured Hollow Fiber Membranes. Materials Research Society Symposia Proceedings, 2012, 1421, 41.	0.1	0
429	Review on Membrane Technologies for Carbon Dioxide Capture from Power Plant Flue Gas. Advanced Materials Research, 2012, 602-604, 1140-1144.	0.3	3
430	Low cost membrane contactors based on hollow fibres. EPJ Web of Conferences, 2012, 25, 01009.	0.1	3
431	Membrane contactors (NDSX and EPT): an innovative alternative for the treatment of effluents containing metallic pollutants. International Journal of Environment and Waste Management, 2012, 9, 201.	0.2	7
432	Mass Transfer Simulation of Gold Extraction in Membrane Extractors. Chemical Engineering and Technology, 2012, 35, 2177-2182.	0.9	35
433	A theoretical model for evaluation of the design of a hollow-fiber membrane oxygenator. Journal of Artificial Organs, 2012, 15, 347-356.	0.4	15
434	Membrane contactors for intensified post combustion carbon dioxide capture by gas–liquid absorption in MEA: A parametric study. Chemical Engineering Research and Design, 2012, 90, 2325-2337.	2.7	14
435	Mass transfer in a membrane aerated biofilm. Water Research, 2012, 46, 4761-4769.	5.3	17
436	Enantioseparation of Enantiomers across Hollow Fiber Supported Liquid Membranes., 2012,,.		0
437	Membrane-Assisted Liquid-Phase Extraction of Lu(III) in a U-Shaped Contactor with a Single Hollow Fiber Membrane. Industrial & Engineering Chemistry Research, 2012, 51, 14199-14208.	1.8	5
438	Wet Air Oxidation of Formic Acid Using Nanoparticle-Modified Polysulfone Hollow Fibers as Gas–Liquid Contactors. ACS Applied Materials & Samp; Interfaces, 2012, 4, 1440-1448.	4.0	5
439	Recovery of Plutonium from Analytical Laboratory Waste using Hollow Fiber Supported Liquid Membrane Technique. Separation Science and Technology, 2012, 48, 208-214.	1.3	11
440	A mathematical model for pertraction of uranium in hollow fiber contactor using TBP. Desalination and Water Treatment, 2012, 38, 204-215.	1.0	5
441	Modeling of Thallium Extraction in a Hollow-Fiber Membrane Contactor. Solvent Extraction and Ion Exchange, 2012, 30, 490-506.	0.8	21

#	Article	IF	Citations
442	Vanadium(III) and vanadium(IV) catalysts in a membrane reactor for benzene hydroxylation to phenol and study of membrane material resistance. Applied Catalysis A: General, 2012, 437-438, 131-138.	2.2	16
443	Experimental studies on simultaneous removal of CO2 and SO2 in a polypropylene hollow fiber membrane contactor. Applied Energy, 2012, 97, 283-288.	5.1	134
444	Computational fluid dynamics simulation of transport phenomena in ceramic membranes for SO2 separation. Mathematical and Computer Modelling, 2012, 56, 278-286.	2.0	83
445	A novel surface modified polyvinylidene fluoride hollow fiber membrane contactor for CO2 absorption. Journal of Membrane Science, 2012, 415-416, 221-228.	4.1	74
446	Development of high performance surface modified polyetherimide hollow fiber membrane for gas–liquid contacting processes. Chemical Engineering Journal, 2012, 198-199, 327-337.	6.6	38
447	Intensification of 2-phenylethanol production in fed-batch hybrid bioreactor: Biotransformations and simulations. Chemical Engineering and Processing: Process Intensification, 2012, 57-58, 75-85.	1.8	27
448	Modeling and simulation of the mass transfer of volatile compounds in a membrane device for toxicity tests. Chemical Engineering Science, 2012, 80, 160-172.	1.9	1
449	Extracorporeal membrane blood oxygenators: effect of membrane wetting on gas transfer and device performance. Asia-Pacific Journal of Chemical Engineering, 2012, 7, S348.	0.8	5
450	Activity of homogeneous and heterogeneous catalysts, spectroscopic and chromatographic characterization of biodiesel: A review. Renewable and Sustainable Energy Reviews, 2012, 16, 6303-6316.	8.2	200
451	Effect of different additives on the physical and chemical CO2 absorption in polyetherimide hollow fiber membrane contactor system. Separation and Purification Technology, 2012, 98, 472-480.	3.9	48
452	Effect of PVDF concentration on the morphology and performance of hollow fiber membrane employed as gas–liquid membrane contactor for CO2 absorption. Separation and Purification Technology, 2012, 98, 174-185.	3.9	78
453	Effect of polymer extrusion temperature on poly(vinylidene fluoride) hollow fiber membranes: Properties and performance used as gas–liquid membrane contactor for CO2 absorption. Separation and Purification Technology, 2012, 99, 91-103.	3.9	53
454	The effect of bore fluid type on the structure and performance of polyetherimide hollow fiber membrane in gasâ€''liquid contacting processes. Separation and Purification Technology, 2012, 98, 262-269.	3.9	20
455	Effect of novel surface modifying macromolecules on morphology and performance of Polysulfone hollow fiber membrane contactor for CO2 absorption. Separation and Purification Technology, 2012, 99, 61-68.	3.9	33
456	Generation of Dean vortices and enhancement of oxygen transfer rates in membrane contactors for different hollow fiber geometries. Journal of Membrane Science, 2012, 423-424, 342-347.	4.1	37
458	Chapter 2. Vegetable Oil as a Fuel: Can it be used Directly?. , 2012, , 5-30.		0
459	Polytetrafluoroethylene (PTFE)-Sputtered Polypropylene Membranes for Carbon Dioxide Separation in Membrane Gas Absorption: Hollow Fiber Configuration. Industrial & Engineering Chemistry Research, 2012, 51, 1376-1382.	1.8	37
460	Process optimization and extraction of nickel by hollow fiber membrane using response surface methodology. Mining, Metallurgy and Exploration, 2012, 29, 225-230.	0.4	2

#	Article	IF	CITATIONS
461	Oxygenation by a superhydrophobic slip G/L contactor. Lab on A Chip, 2012, 12, 2922.	3.1	12
462	Development of a mass transfer model for simulation of sulfur dioxide removal in ceramic membrane contactors. Asia-Pacific Journal of Chemical Engineering, 2012, 7, 828-834.	0.8	62
463	Implementation of the Finite Element Method for Simulation of Mass Transfer in Membrane Contactors. Chemical Engineering and Technology, 2012, 35, 1077-1084.	0.9	54
464	lonic Liquids as Extracting Agents for Heavy Metals. Separation Science and Technology, 2012, 47, 189-203.	1.3	155
465	Separation of CO2 by single and mixed aqueous amine solvents in membrane contactors: fluid flow and mass transfer modeling. Engineering With Computers, 2012, 28, 189-198.	3.5	80
466	Evaluation of mass transfer characteristics of non-porous and microporous membrane contactors for the removal of CO2. Chemical Engineering Journal, 2012, 195-196, 122-131.	6.6	22
467	Environmental and economic evaluation of SO2 recovery in a ceramic hollow fibre membrane contactor. Chemical Engineering and Processing: Process Intensification, 2012, 52, 151-154.	1.8	14
468	Experimental study of CO2 absorption/stripping via PVDF hollow fiber membrane contactor. Chemical Engineering Research and Design, 2012, 90, 555-562.	2.7	67
469	Conjugate heat and mass transfer in a hollow fiber membrane module for liquid desiccant air dehumidification: A free surface model approach. International Journal of Heat and Mass Transfer, 2012, 55, 3789-3799.	2.5	92
470	Fabrication and characterization of superhydrophobic polypropylene hollow fiber membranes for carbon dioxide absorption. Applied Energy, 2012, 90, 167-174.	5.1	140
471	Preliminary characterization of carbon dioxide transfer in a hollow fiber membrane module as a possible solution for gas–liquid transfer in microgravity conditions. Advances in Space Research, 2012, 49, 254-261.	1.2	3
472	Liposome and niosome preparation using a membrane contactor for scale-up. Colloids and Surfaces B: Biointerfaces, 2012, 94, 15-21.	2.5	81
473	Influence of membrane morphology on characteristics of porous hydrophobic PVDF hollow fiber contactors for CO2 stripping from water. Desalination, 2012, 287, 220-227.	4.0	39
474	Hydrodynamics and mass transfer simulation of wastewater treatment in membrane reactors. Desalination, 2012, 286, 290-295.	4.0	83
475	Removal of ibuprofen and 4-isobutylacetophenone by non-dispersive solvent extraction using a hollow fibre membrane contactor. Separation and Purification Technology, 2012, 88, 61-69.	3.9	26
476	A novel surface modified polyetherimide hollow fiber membrane for gas–liquid contacting processes. Separation and Purification Technology, 2012, 89, 160-170.	3.9	44
477	Effects of operational conditions on the removal of phenols from wastewater by a hollow-fiber membrane contactor. Separation and Purification Technology, 2012, 95, 80-88.	3.9	21
478	Investigation of 2-phenylethanol production in fed-batch hybrid bioreactor: Membrane extraction and microfiltration. Separation and Purification Technology, 2012, 95, 126-135.	3.9	21

#	Article	IF	CITATIONS
479	Evaluating the intensification potential of membrane contactors for gas absorption in a chemical solvent: A generic one-dimensional methodology and its application to CO2 absorption in monoethanolamine. Journal of Membrane Science, 2012, 389, 1-16.	4.1	25
480	Model prediction and experimental studies on the removal of dissolved NH3 from water applying hollow fiber membrane contactor. Journal of Membrane Science, 2012, 390-391, 164-174.	4.1	38
481	Preparation of microporous PVDF hollow fiber membrane contactors for CO2 stripping from diethanolamine solution. Journal of Membrane Science, 2012, 392-393, 29-37.	4.1	61
482	Simultaneous absorption of CO2 and H2S from biogas by capillary membrane contactor. Journal of Membrane Science, 2012, 392-393, 38-47.	4.1	70
483	Contaminant removal from natural gas using dual hollow fiber membrane contactors. Journal of Membrane Science, 2012, 397-398, 9-16.	4.1	14
484	Mathematical modeling and cascade design of hollow fiber membrane contactor for CO2 absorption by monoethanolamine. Journal of Membrane Science, 2012, 401-402, 175-189.	4.1	57
485	Membrane contactors for intensified post-combustion carbon dioxide capture by gas–liquid absorption processes. Journal of Membrane Science, 2012, 407-408, 1-7.	4.1	83
486	Enhanced anti-swelling property and dehumidification performance by sodium alginate–poly(vinyl) Tj ETQq1 1 211-220.	0.784314 4.1	rgBT /Overlo 47
487	Recent developments in membrane-based technologies for CO2 capture. Progress in Energy and Combustion Science, 2012, 38, 419-448.	15.8	439
488	Intensification of 1â€phenylethanol production by periodical membrane extraction of the product from fermentation broth. Journal of Chemical Technology and Biotechnology, 2012, 87, 1017-1026.	1.6	13
489	Recent Advances in the Extraction of Target Metal Ions with Liquid Membrane Processes Incorporating Macrocycle Carriers. Separation and Purification Reviews, 2013, 42, 28-86.	2.8	16
490	Near critical and supercritical fluid extraction of Cu(II) from aqueous solutions using a hollow fiber contactor. Chemical Engineering and Processing: Process Intensification, 2013, 65, 58-67.	1.8	12
491	Mathematical modeling and simulation of CO2 stripping from monoethanolamine solution using nano porous membrane contactors. International Journal of Greenhouse Gas Control, 2013, 13, 1-8.	2.3	73
492	Computational Simulation for Transport of Priority Organic Pollutants through Nanoporous Membranes. Chemical Engineering and Technology, 2013, 36, 507-512.	0.9	44
493	Wettability study in CO2 capture from flue gas using nano porous membrane contactors. International Journal of Greenhouse Gas Control, 2013, 16, 233-240.	2.3	24
494	Using Membrane Reactive Absorption Modeling to Predict Optimum Process Conditions in the Separation of Propane–Propylene Mixtures. Industrial & Engineering Chemistry Research, 2013, 52, 8843-8855.	1.8	6
495	Effect of Absorbent Type and Concentration on CO ₂ Capture from a Gas Stream into a Liquid Phase. Industrial & Discourse Engineering Chemistry Research, 2013, 52, 13128-13136.	1.8	17
496	Effect of membrane structure on gas absorption performance and long-term stability of membrane contactors. Separation and Purification Technology, 2013, 108, 65-73.	3.9	45

#	Article	IF	CITATIONS
498	Rate based modeling for CO2 absorption using monoethanolamine solution in a hollow fiber membrane contactor. Journal of Membrane Science, 2013, 429, 396-408.	4.1	33
499	Impact of characteristic membrane parameters on the transfer rate of ammonia in membrane contactor application. Separation and Purification Technology, 2013, 116, 327-334.	3.9	36
500	Experimental study of ammonia removal from water by modified direct contact membrane distillation. Desalination, 2013, 326, 135-140.	4.0	101
501	Modeling strategies of membrane contactors for post-combustion carbon capture: A critical comparative study. Chemical Engineering Science, 2013, 87, 393-407.	1.9	58
502	Airlift reactor â€" membrane extraction hybrid system for aroma production. Chemical Papers, 2013, 67, .	1.0	8
503	Heat and mass transfer deteriorations in an elliptical hollow fiber membrane tube bank for liquid desiccant air dehumidification. Applied Thermal Engineering, 2013, 57, 90-98.	3.0	17
504	Preparation of Calcium Carbonate Nanoparticles with a Continuous Gas-liquid Membrane Contactor: Particles Morphology and Membrane Fouling. Chinese Journal of Chemical Engineering, 2013, 21, 121-126.	1.7	13
505	Analytical solutions for membrane wetting calculations based on log-normal and normal distribution functions for CO2 absorption by a hollow fiber membrane contactor. Journal of Membrane Science, 2013, 429, 459-472.	4.1	23
506	Researches and trends in membrane-based liquid desiccant air dehumidification. Renewable and Sustainable Energy Reviews, 2013, 28, 425-440.	8.2	96
507	Gas-filled membrane absorption: a review of three different applications to describe the mass transfer by means of a unified approach. Desalination and Water Treatment, 2013, 51, 5649-5663.	1.0	14
508	Present technologies for hydrogen sulfide removal from gaseous mixtures. Reviews in Chemical Engineering, 2013, 29, .	2.3	111
509	Modeling of CO ₂ Stripping in a Hollow Fiber Membrane Contactor for CO ₂ Capture. Energy & Capture.	2.5	40
510	Dual layer hollow fiber sorbents: Concept, fabrication and characterization. Separation and Purification Technology, 2013, 104, 68-80.	3.9	24
511	Water-solubility-driven separation of gases using graphene membrane. Journal of Membrane Science, 2013, 428, 546-553.	4.1	54
512	The role of membranes in post-combustion CO ₂ capture., 2013, 3, 318-337.		69
513	Ultrathin free-standing membranes from metal hydroxide nanostrands. Journal of Membrane Science, 2013, 448, 270-291.	4.1	31
514	Effect of fiber packing density on physical CO2 absorption performance in gas–liquid membrane contactor. Separation and Purification Technology, 2013, 115, 152-157.	3.9	22
515	Computational simulation of mass transfer in extraction of alkali metals by means of nanoporous membrane extractors. Chemical Engineering and Processing: Process Intensification, 2013, 69, 57-62.	1.8	37

#	Article	IF	CITATIONS
516	Optimization of Blended Amines for CO ₂ Absorption in a Hollow-Fiber Membrane Contactor. Industrial & Engineering Chemistry Research, 2013, 52, 12170-12182.	1.8	34
517	Analysis of Laplace–Young equation parameters and their influence on efficient CO2 capture in membrane contactors. Separation and Purification Technology, 2013, 118, 806-815.	3.9	43
518	A Mathematical Model for Size and Number Scale Up of Hollow Fiber Modules for the Recovery of Uranium from Acidic Nuclear Waste using the DLM Technique. Separation Science and Technology, 2013, 48, 2444-2453.	1.3	6
519	Multi-phase catalytic membrane reactors. , 2013, , 152-187.		1
520	In situ hollow fiber membrane facilitated CO2 delivery to a cyanobacterium for enhanced productivity. RSC Advances, 2013, 3, 13203.	1.7	9
521	Super liquid-repellent gas membranes for carbon dioxide capture and heart–lung machines. Nature Communications, 2013, 4, 2512.	5.8	98
522	Non-Dispersive Solvent Extraction of Uranium from Nitric Acid Medium by Several Amides and their Mixture with TODGA using a Hollow Fiber Contactor. Separation Science and Technology, 2013, 48, 2436-2443.	1.3	11
523	Membrane contactors: fundamentals, membrane materials and key operations. , 2013, , 54-106.		4
524	Design of super-hydrophobic microporous polytetrafluoroethylene membranes. New Journal of Chemistry, 2013, 37, 373-379.	1.4	26
525	Experimental Analysis of a Beverage Carbonation System Equipped with a <scp>V</scp> enturi Nozzle. Journal of Food Process Engineering, 2013, 36, 302-315.	1.5	1
526	Solubility of Gases in Liquids. , 2013, , 447-476.		1
527	Integrated Membrane Separation Processes for Recycling of Valuable Wastewater Streams: Nanofiltration, Membrane Distillation, and Membrane Crystallizers Revisited. Industrial & Distribution Engineering Chemistry Research, 2013, 52, 10335-10341.	1.8	77
528	3D Modeling and Simulation of Mass Transfer in Vapor Transport through Porous Membranes. Chemical Engineering and Technology, 2013, 36, 177-185.	0.9	33
529	Effect of long-term operation on the performance of polypropylene and polyvinylidene fluoride membrane contactors for CO2 absorption. Separation and Purification Technology, 2013, 116, 300-306.	3.9	40
530	Two-phase biodegradation of phenol in trioctylphosphine oxide impregnated hollow fiber membrane bioreactor. Biochemical Engineering Journal, 2013, 79, 274-282.	1.8	12
531	CO2 capture by membrane absorption coupling process: Experiments and coupling process evaluation. Journal of Membrane Science, 2013, 431, 9-18.	4.1	21
532	An analytical study of laminar concurrent flow membrane absorption through a hollow fiber gas–liquid membrane contactor. Journal of Membrane Science, 2013, 428, 232-240.	4.1	2
533	Surface modification of PVDF hollow fiber membrane to enhance hydrophobicity using organosilanes. Journal of Applied Polymer Science, 2013, 130, 610-621.	1.3	34

#	Article	IF	CITATIONS
534	Modeling study on the mass transfer of hollow fiber renewal liquid membrane: Effect of the hollow fiber module scale. Journal of Membrane Science, 2013, 439, 28-35.	4.1	18
535	Separation by competitive transport of uranium(VI) and thorium(IV) nitrates across supported renewable liquid membrane containing trioctylphosphine oxide as metal carrier. Journal of Membrane Science, 2013, 430, 188-195.	4.1	46
536	Effect of SMM concentration on morphology and performance of surface modified PVDF hollow fiber membrane contactor for CO2 absorption. Separation and Purification Technology, 2013, 116, 67-72.	3.9	51
537	State-of-the-art review on hollow fibre contactor technology and membrane-based extraction processes. Journal of Membrane Science, 2013, 430, 263-303.	4.1	191
538	Simultaneous extraction and biodegradation of phenol in a hollow fiber supported liquid membrane bioreactor. Journal of Membrane Science, 2013, 430, 242-251.	4.1	41
539	Separation Membranes Constructed from Inorganic Nanofibers by Filtration Technique. Chemical Record, 2013, 13, 14-27.	2.9	12
540	Modeling of Ce(IV) transport through a dispersion supported liquid membrane including P204 as the carrier. Desalination and Water Treatment, 2013, 51, 2193-2201.	1.0	6
541	Analysis of CO ₂ Separation with Aqueous Potassium Carbonate Solution in a Hollow Fiber Membrane Contactor. Energy & Energy & 2013, 27, 2185-2193.	2.5	31
542	Part 7: A review of CO ₂ capture using hollow fiber membrane contactors. Carbon Management, 2013, 4, 69-89.	1.2	81
543	Analytical model of a membrane humidifier for polymer electrolyte membrane fuel cell systems. International Journal of Heat and Mass Transfer, 2013, 58, 702-717.	2.5	30
544	Long term stability of PTFE and PVDF membrane contactors in the application of propylene/propane separation using AgNO3 solution. Chemical Engineering Science, 2013, 94, 108-119.	1.9	33
545	A novel process based on gas filled membrane absorption to recover cyanide in gold mining. Hydrometallurgy, 2013, 134-135, 166-176.	1.8	24
546	Separation of Olefin/Paraffin Gas Mixtures Using Ceramic Hollow Fiber Membrane Contactors. Industrial & Description of Chemistry Research, 2013, 52, 7918-7929.	1.8	53
547	Separation of butanol from ABE mixtures by sweep gas pervaporation using a supported gelled ionic liquid membrane: Analysis of transport phenomena and selectivity. Journal of Membrane Science, 2013, 444, 201-212.	4.1	53
548	Structurally developed microporous polyvinylidene fluoride hollow-fiber membranes for CO2 absorption with diethanolamine solution. Journal of Polymer Research, 2013, 20, 1.	1.2	23
549	Fabrication of electrospun nanofibrous membranes for membrane distillation application. Desalination and Water Treatment, 2013, 51, 1337-1343.	1.0	47
550	Investigation of CO2 removal by silica and CNT nanofluids in microporous hollow fiber membrane contactors. Journal of Membrane Science, 2013, 433, 17-24.	4.1	98
551	Modeling of CO2 absorption in a membrane contactor considering solvent evaporation. Separation and Purification Technology, 2013, 110, 1-10.	3.9	35

#	ARTICLE	IF	CITATIONS
552	Gas–liquid membrane contactors for acid gas removal: recent advances and future challenges. Current Opinion in Chemical Engineering, 2013, 2, 255-262.	3.8	69
553	Analysis of ammonia separation from purge gases in microporous hollow fiber membrane contactors. Journal of Hazardous Materials, 2013, 260, 576-584.	6.5	18
554	Improving docosahexaenoic acid productivity of Schizochytrium sp. by a two-stage AEMR/shake mixed culture mode. Bioresource Technology, 2013, 142, 719-722.	4.8	22
555	Solvent extraction separation of tyramine from simulated alkaloid processing wastewater by Cyanex 923/kerosene. Separation and Purification Technology, 2013, 103, 28-35.	3.9	9
557	On the Design of a 4-End Spiral-Wound L/L Extraction Membrane Module. Industrial & Engineering Chemistry Research, 2013, 52, 1004-1014.	1.8	17
558	Design of a Novel Hollow-Fiber Membrane Contactor for Carbon Dioxide Absorption. Advanced Materials Research, 0, 777, 33-37.	0.3	0
559	Supported Liquid Membrane Principle and Its Practices: A Short Review. Journal of Chemistry, 2013, 2013, 1-11.	0.9	160
560	Two-Phase Biodegradation of Phenol in a Hollow Fiber Membrane Bioreactor. Journal of Environmental Engineering, ASCE, 2013, 139, 654-660.	0.7	8
561	Advances in membrane-based concentration in the food and beverage industries: direct osmosis and membrane contactors., 2013,, 244-283.		0
562	The Study of CO ₂ Capture Technology. Advanced Materials Research, 2013, 807-809, 1547-1550.	0.3	0
563	Determination of Parameters for Sustainability Assessment of Hollow Fiber Membrane Module Life Cycle. Advanced Materials Research, 0, 845, 724-729.	0.3	2
566	Membrane module design and dynamic shear-induced techniques to enhance liquid separation by hollow fiber modules: a review. Desalination and Water Treatment, 2013, 51, 3604-3627.	1.0	104
567	Progress in membrane gas–liquid reactors. Journal of Chemical Technology and Biotechnology, 2013, 88, 340-345.	1.6	7
568	Carbon Dioxide Mass Transfer into Solvents in a Zeolite Hybrid Device. Chemical Engineering and Technology, 2013, 36, 1853-1858.	0.9	4
569	3D printing for CO ₂ capture and chemical engineering design. Nanomaterials and Energy, 2013, 2, 235-243.	0.1	18
570	Membranes – The Answer to Biogas Clean-Up. Proceedings of the Water Environment Federation, 2013, 2013, 6500-6512.	0.0	0
571	Uptake of Palladium Using Liquid Emulsion Membrane Technique. International Journal of Chemistry, 2014, 6, .	0.3	1
572	CO2 Absorption in Membrane Contactor using Piperazine, Monoethanolamine and Diethanolamine: A Mass Transfer and Performance Study. Jurnal Teknologi (Sciences and Engineering), 2014, 69, .	0.3	1

#	Article	IF	CITATIONS
573	Regeneration of Alkanolamine Solutions in Membrane Contactor Based on Novel Polynorbornene. Oil and Gas Science and Technology, 2014, 69, 1059-1068.	1.4	12
574	Membrane Contactor: A Nondispersive and Precise Method to Control CO2 and O2 Concentrations in Wine. American Journal of Enology and Viticulture, 2014, 65, 510-513.	0.9	3
575	Kinetics of carbon dioxide removal from water in flat membrane contactor. Petroleum Chemistry, 2014, 54, 507-514.	0.4	4
576	Mass Transfer in Molybdenum Extraction from Aqueous Solutions Using Nanoporous Membranes. Chemical Engineering and Technology, 2014, 37, 597-604.	0.9	5
577	Effects of the random distributions on the longitudinal transport phenomena between an elliptical hollow fiber membrane bundle. Journal of Membrane Science, 2014, 471, 362-371.	4.1	10
578	Modeling of CO ₂ Capture by Amine Solution (MDEA) in Hollow Fiber Membranes. Applied Mechanics and Materials, 0, 625, 537-540.	0.2	0
579	Hollow Fiber Membrane Contactors for Post-Combustion CO2Capture: A Scale-Up Study from Laboratory to Pilot Plant. Oil and Gas Science and Technology, 2014, 69, 1035-1045.	1.4	24
580	Carbon dioxide gas delivery to thin-film aqueous systems via hollow fiber membranes. Chemical Engineering Journal, 2014, 253, 165-173.	6.6	11
581	Wetting phenomenon in membrane contactors – Causes and prevention. Journal of Membrane Science, 2014, 452, 332-353.	4.1	232
582	Modeling and Transport Analysis of Silver Extraction in Porous Membrane Extractors by Computational Methods. Transactions of the Indian Institute of Metals, 2014, 67, 223-227.	0.7	5
583	Factorial design in optimization of the separation of uranium from yellowcake across a hollow fiber supported liquid membrane, with mass transport modeling. Korean Journal of Chemical Engineering, 2014, 31, 868-874.	1.2	9
584	Ammonia based CO2 capture process using hollow fiber membrane contactors. Journal of Membrane Science, 2014, 455, 236-246.	4.1	72
585	Membrane processes for heating, ventilation, and air conditioning. Renewable and Sustainable Energy Reviews, 2014, 33, 290-304.	8.2	174
586	Design and cost estimation of a gas-filled membrane absorption (GFMA) process as alternative for cyanide recovery in gold mining. Journal of Membrane Science, 2014, 466, 253-264.	4.1	18
587	A Review of the Absorption and Desorption Processes of Carbon Dioxide in Water Systems. Industrial & Engineering Chemistry Research, 2014, 53, 2-22.	1.8	56
588	Extraction kinetics of Fe(III) by di-(2-ethylhexyl) phosphoric acid using a Y–Y shaped microfluidic device. Chemical Engineering Research and Design, 2014, 92, 571-580.	2.7	40
589	Influence of different factors on the stability of biodiesel: A review. Renewable and Sustainable Energy Reviews, 2014, 30, 154-163.	8.2	146
590	Liquid–liquid extraction of uranium(VI) in the system with a membrane contactor. Journal of Radioanalytical and Nuclear Chemistry, 2014, 299, 611-619.	0.7	14

#	Article	IF	CITATIONS
591	Membrane reactor for continuous and selective protein mono-PEGylation. Journal of Membrane Science, 2014, 451, 177-184.	4.1	11
592	CFD Simulation and Modeling of Membraneâ€Assisted Separation of Organic Compounds from Wastewater. Chemical Engineering and Technology, 2014, 37, 81-86.	0.9	10
593	Modelling aspects of carbon dioxide capture technologies using porous contactors: a review. Environmental Technology Reviews, 2014, 3, 15-29.	2.1	1
594	Preparation and properties of hydrophobic poly(vinylidene fluoride)–SiO ₂ mixed matrix membranes for dissolved oxygen removal from water. Journal of Applied Polymer Science, 2014, 131, .	1.3	6
595	H2S absorption at high pressure using hollow fibre membrane contactors. Chemical Engineering and Processing: Process Intensification, 2014, 83, 33-42.	1.8	27
596	Removal of the Selected Pesticides from a Water Solution by Applying Hollow Fiber Liquid–Liquid Membrane Extraction. Industrial & Engineering Chemistry Research, 2014, 53, 4861-4870.	1.8	8
597	Feasibility of CO ₂ Extraction from Seawater and Simultaneous Hydrogen Gas Generation Using a Novel and Robust Electrolytic Cation Exchange Module Based on Continuous Electrodeionization Technology. Industrial & Engineering Chemistry Research, 2014, 53, 12192-12200.	1.8	59
598	Intensive 2-phenylethanol production in a hybrid system combined of a stirred tank reactor and an immersed extraction membrane module. Chemical Papers, 2014, 68, .	1.0	17
599	Gas–liquid membrane contactor for ethylene/ethane separation by aqueous silver nitrate solution. Separation and Purification Technology, 2014, 127, 140-148.	3.9	21
600	Microporous polyvinylidene fluoride hollow fiber membrane contactors for CO2 stripping: Effect of PEG-400 in spinning dope. Chemical Engineering Research and Design, 2014, 92, 181-190.	2.7	30
601	Kinetics modeling of two phase biodegradation in a hollow fiber membrane bioreactor. Separation and Purification Technology, 2014, 122, 350-358.	3.9	9
602	Gas–liquid separation processes based on physical solvents: opportunities for membranes. Journal of Membrane Science, 2014, 459, 52-61.	4.1	38
603	Investigation of membrane wetting in different absorbents at elevated temperature for carbon dioxide capture. Journal of Membrane Science, 2014, 455, 219-228.	4.1	29
604	Performance analysis of ammonia solution for CO2 capture using microporous membrane contactors. International Journal of Greenhouse Gas Control, 2014, 31, 16-24.	2.3	21
605	Hollow fibre membrane arrays for CO ₂ delivery in microalgae photobioreactors. RSC Advances, 2014, 4, 1460-1468.	1.7	8
606	Membrane crystallization for the recovery of a pharmaceutical compound from waste streams. Chemical Engineering Research and Design, 2014, 92, 264-272.	2.7	29
607	Residence Time Distribution Analysis of a Hollow-Fiber Contactor for Membrane Gas Absorption and Vibration-Induced Mass Transfer Intensification. Industrial & Engineering Chemistry Research, 2014, 53, 8640-8650.	1.8	6
608	Blend polyvinylidene fluoride/surface modifying macromolecule hollow fiber membrane contactors for CO2 absorption. International Journal of Greenhouse Gas Control, 2014, 26, 83-92.	2.3	42

#	Article	IF	CITATIONS
609	CO2 capture by membrane absorption coupling process: Application of ionic liquids. Applied Energy, 2014, 115, 573-581.	5.1	73
610	Gas-permeable composite hollow-fiber membrane with a three-layered structure. Journal of Membrane Science, 2014, 467, 175-187.	4.1	6
611	Experimental study on the performance and long-term stability of PVDF/montmorillonite hollow fiber mixed matrix membranes for CO2 separation process. International Journal of Greenhouse Gas Control, 2014, 26, 147-157.	2.3	79
612	Zinc Chloride and Hydrochloric Acid Coextraction from Galvanizing Pickling Waste in the Presence of Iron(II). Results with Hollow Fiber Membrane Contactors. Industrial & Engineering Chemistry Research, 2014, 53, 4453-4461.	1.8	14
613	Fluid flow and heat transfer across an elliptical hollow fiber membrane tube bank with randomly distributed features. International Journal of Heat and Mass Transfer, 2014, 76, 559-567.	2.5	14
614	Supercritical CO ₂ Extraction of 1â€Butanol and Acetone from Aqueous Solutions Using a Hollowâ€Fiber Membrane Contactor. Chemical Engineering and Technology, 2014, 37, 1861-1872.	0.9	9
615	CO2 Removal from Natural Gas Using Membrane Contactor. , 2014, , .		1
616	Experimental evaluation of enthalpy efficiency and gas-phase contaminant transfer in an enthalpy recovery unit with polymer membrane foils. Science and Technology for the Built Environment, 2015, 21, 150-159.	0.8	4
617	Ethanol Recovery from Low-Concentration Aqueous Solutions Using Membrane Contactors with lonic Liquids. Ecological Chemistry and Engineering S, 2015, 22, 565-575.	0.3	6
619	Deoxygenation performance of polydimethylsiloxane mixedâ€matrix membranes for dissolved oxygen removal from water. Journal of Applied Polymer Science, 2015, 132, .	1.3	7
621	Emerging extraction., 2015,, 249-272.		10
622	Oxygen transfer rates and requirements in oxidative biocatalysis. Computer Aided Chemical Engineering, 2015, 37, 2111-2116.	0.3	6
623	Surface Engineering of Polypropylene Membranes with Carbonic Anhydrase-Loaded Mesoporous Silica Nanoparticles for Improved Carbon Dioxide Hydration. Langmuir, 2015, 31, 6211-6219.	1.6	38
624	Pushing the limits of intensified CO2 post-combustion capture by gas–liquid absorption through a membrane contactor. Chemical Engineering and Processing: Process Intensification, 2015, 91, 7-22.	1.8	28
625	Investigation of the effects of operating parameters on the local mass transfer coefficient and membrane wetting in a membrane gas absorption process. Journal of Membrane Science, 2015, 490, 236-246.	4.1	50
626	Activated carbon fibers modified by metal oxide as effective structured adsorbents for acetaldehyde. Catalysis Today, 2015, 249, 252-258.	2.2	72
627	Membrane recovery of hydrogen from gaseous mixtures of biogenic and technogenic origin. International Journal of Hydrogen Energy, 2015, 40, 3438-3451.	3.8	38
628	Innovative Use of Membrane Contactor as Condenser for Heat Recovery in Carbon Capture. Environmental Science & Environmental S	4.6	47

#	Article	IF	CITATIONS
629	Synthetic Membranes for Water Purification: Status and Future. Angewandte Chemie - International Edition, 2015, 54, 3368-3386.	7.2	553
630	Numerical simulation of CO2 diffusion and reaction into aqueous solutions of different absorbents. Korean Journal of Chemical Engineering, 2015, 32, 239-247.	1.2	5
631	Breakthrough in a flat channel membrane microcontactor. Chemical Engineering Research and Design, 2015, 94, 98-104.	2.7	16
632	CO ₂ removal by single and mixed amines in a hollowâ€fiber membrane module—investigation of contactor performance. AICHE Journal, 2015, 61, 955-971.	1.8	43
633	Theoretical and Experimental Studies on Acetylene Absorption in a Polytetrafluoroethylene Hollowâ€Fiber Membrane Contactor. Chemical Engineering and Technology, 2015, 38, 215-222.	0.9	18
634	A Review on Flux Decline Control Strategies in Pressure-Driven Membrane Processes. Industrial & Engineering Chemistry Research, 2015, 54, 2843-2861.	1.8	108
635	Production and characterization of alcohol-free beer by membrane process. Food and Bioproducts Processing, 2015, 94, 158-168.	1.8	47
636	Phenolic wastewater treatment through extractive recovery coupled with biodegradation in a two-phase partitioning membrane bioreactor. Chemosphere, 2015, 141, 176-182.	4.2	13
637	Sweep gas membrane distillation in a membrane contactor with metallic hollow-fibers. Journal of Membrane Science, 2015, 493, 167-178.	4.1	34
638	Tailoring wall permeabilities for enhanced filtration. Physics of Fluids, 2015, 27, .	1.6	6
639	Extraction of Cu(II) with Acorga M5640 using hollow fibre liquid membrane. Chemical Papers, 2015, 69,	1.0	7
640	Performance evaluation and mass transfer study of CO2 absorption in flat sheet membrane contactor using novel porous polysulfone membrane. Korean Journal of Chemical Engineering, 2015, 32, 2204-2211.	1.2	22
641	Cross-flow mass transfer in a model hexagonal system of hollow fiber membranes. Petroleum Chemistry, 2015, 55, 339-346.	0.4	6
642	Mathematical modeling and simulation of carbon dioxide stripping from water using hollow fiber membrane contactors. Chemical Engineering and Processing: Process Intensification, 2015, 95, 159-164.	1.8	11
643	Self-Supported Fibrous Porous Aromatic Membranes for Efficient CO ₂ /N ₂ Separations. ACS Applied Materials & Separations. ACS ACS Applied Materials & Separations. ACS Applied Materials & Separations. ACS	4.0	75
644	Process Intensification Using Hollow Fibre-supported Liquid Membranes. Indian Chemical Engineer, 2015, 57, 300-321.	0.9	2
645	Novel 90Sr–90Y generator system based on a pertraction through supported liquid membrane in hollow fiber contactor. Chemical Engineering Research and Design, 2015, 97, 57-67.	2.7	12
646	Multistage counter-current solvent extraction in a flat membrane microcontactor. Chemical Engineering Journal, 2015, 273, 138-146.	6.6	31

#	Article	IF	CITATIONS
647	CFD simulation for separation of ion from wastewater in a membrane contactor. Journal of Water Process Engineering, 2015, 6, 144-150.	2.6	19
648	Stability of biodiesel, its improvement and the effect of antioxidant treated blends on engine performance and emission. RSC Advances, 2015, 5, 36240-36261.	1.7	70
649	Modelling and Experimental Study of Membrane Wetting in Microporous Hollow Fiber Membrane Contactors. Canadian Journal of Chemical Engineering, 2015, 93, 1254-1265.	0.9	9
650	Computational simulation of CO2removal from gas mixtures by chemical absorbents in porous membranes. RSC Advances, 2015, 5, 36787-36797.	1.7	16
651	Membrane evaporation of amine solution for energy saving in post-combustion carbon capture: Wetting and condensation. Separation and Purification Technology, 2015, 146, 60-67.	3.9	35
652	Treatment of landfill waste, leachate and landfill gas: A review. Frontiers of Chemical Science and Engineering, 2015, 9, 15-32.	2.3	100
653	Highly effective CO ₂ capture using super-fine PVDF hollow fiber membranes with sub-layer large cavities. RSC Advances, 2015, 5, 92234-92253.	1.7	19
654	Influence of the Membrane Module Geometry on SO ₂ Removal: A Numerical Study. Industrial & Study	1.8	21
655	Experimental Investigation on the Absorption Enhancement of CO ₂ by Various Nanofluids in Hollow Fiber Membrane Contactors. Energy & Energy & 2015, 29, 8135-8142.	2.5	94
656	Modeling and simulation of CO2 removal in a polyvinylidene fluoride hollow fiber membrane contactor with computational fluid dynamics. Chemical Engineering and Processing: Process Intensification, 2015, 98, 41-51.	1.8	25
657	An experimental study on the stability of PVDF hollow fiber membrane contactors for CO ₂ absorption with alkanolamine solutions. RSC Advances, 2015, 5, 86031-86040.	1.7	21
658	Reactive mass transfer in a membrane-based microcontactor. Chemical Engineering and Processing: Process Intensification, 2015, 95, 186-194.	1.8	15
659	Effect of PVDF blending on the structure and performance of PEI hollow fiber membrane in CO2 separation process. Chemical Engineering Research and Design, 2015, 104, 367-375.	2.7	14
660	CO2 capture using a superhydrophobic ceramic membrane contactor. Journal of Membrane Science, 2015, 496, 1-12.	4.1	104
661	Purification of crude biodiesel using dry washing and membrane technologies. AEJ - Alexandria Engineering Journal, 2015, 54, 1265-1272.	3.4	82
662	CO ₂ Removal in Packed-Bed Columns and Hollow-Fiber Membrane Reactors. Investigation of Reactor Performance. Industrial & Engineering Chemistry Research, 2015, 54, 12455-12465.	1.8	12
663	Membrane gas absorption for CO 2 capture from flue gas containing fine particles and gaseous contaminants. International Journal of Greenhouse Gas Control, 2015, 33, 10-17.	2.3	34
664	Flat sheet membrane contactor (FSMC) for CO 2 separation using aqueous amine solutions. Chemical Engineering Science, 2015, 123, 255-264.	1.9	31

#	ARTICLE	IF	CITATIONS
665	Fabrication of a low-cost cementitious catalytic membrane for p-chloronitrobenzene degradation using a hybrid ozonation-membrane filtration system. Chemical Engineering Journal, 2015, 262, 904-912.	6.6	31
666	Process intensification with selected membrane processes. Chemical Engineering and Processing: Process Intensification, 2015, 87, 16-25.	1.8	57
667	Porous PES and PEI hollow fiber membranes in a gas–liquid contacting process—A comparative study. Journal of Membrane Science, 2015, 475, 57-64.	4.1	42
668	Concentration of cranberry juice by osmotic distillation process. Journal of Food Engineering, 2015, 144, 58-65.	2.7	51
669	Essential prerequisites for successful bioprocess development of biological CH ₄ production from CO ₂ and H ₂ . Critical Reviews in Biotechnology, 2015, 35, 141-151.	5.1	110
670	Phenol removal from wastewater by means of nanoporous membrane contactors. Journal of Industrial and Engineering Chemistry, 2015, 21, 1410-1416.	2.9	41
671	Poly(vinylidene fluoride) (PVDF) membranes for fluid separation. Reactive and Functional Polymers, 2015, 86, 134-153.	2.0	112
672	Mathematical modeling of CO2 separation from gaseous-mixture using a Hollow-Fiber Membrane Module: Physical mechanism and influence of partial-wetting. Journal of Membrane Science, 2015, 474, 64-82.	4.1	39
673	Effect of extrusion rate on morphology of Kaolin/PolyEtherSulfone (PESf) membrane precursor. IOP Conference Series: Materials Science and Engineering, 2016, 160, 012013.	0.3	0
674	Mathematical Modelling and Simulation of Carbon Dioxide Absorption from N2 Using Hollow Fiber Membrane Contactor. Periodica Polytechnica: Chemical Engineering, 2016, 60, 266-272.	0.5	5
675	Efficient Separation of Ar and Kr from Environmental Samples for Trace Radioactive Noble Gas Detection. Chinese Journal of Chemical Physics, 2016, 29, 151-156.	0.6	1
676	Darcy Permeability of Hollow Fiber Membrane Bundles Made from Membrana Polymethylpentene Fibers Used in Respiratory Assist Devices. ASAIO Journal, 2016, 62, 329-331.	0.9	12
677	Trace ammonium removal by liquid–liquid membrane contactors as water polishing step of water electrolysis for hydrogen production from a wastewater treatment plant effluent. Journal of Chemical Technology and Biotechnology, 2016, 91, 2983-2993.	1.6	11
678	Hollow fiber supported liquid membrane studies using a process compatible solvent containing calix[4]arene-mono-crown-6 for the recovery of radio-cesium from nuclear waste. Separation and Purification Technology, 2016, 170, 208-216.	3.9	27
679	Inâ€ine sample concentration by evaporation through porous hollow fibers and micromachined membranes embedded in microfluidic devices. Electrophoresis, 2016, 37, 463-471.	1.3	9
680	Performance of a composite bioactive membrane for H ₂ production and capture from high strength wastewater. Environmental Science: Water Research and Technology, 2016, 2, 848-857.	1.2	8
681	Simulation of CO 2 absorption by solution of ammonium ionic liquid in hollow-fiber contactors. Chemical Engineering and Processing: Process Intensification, 2016, 108, 27-34.	1.8	75
682	Modelling of a tubular membrane contactor for pre-combustion CO2 capture using ionic liquids: Influence of the membrane configuration, absorbent properties and operation parameters. Green Energy and Environment, 2016, 1, 266-275.	4.7	30

#	Article	IF	CITATIONS
683	Modeling of convection–diffusion transport in a hollow-fiber membrane contactor with radial transverse liquid flow. Petroleum Chemistry, 2016, 56, 1061-1065.	0.4	2
684	Gas–liquid membrane contactors for carbon dioxide capture from gaseous streams. Petroleum Chemistry, 2016, 56, 889-914.	0.4	29
685	Status and progress of membrane contactors in post-combustion carbon capture: A state-of-the-art review of new developments. Journal of Membrane Science, 2016, 511, 180-206.	4.1	249
686	Hybrid Polymer/UiO-66(Zr) and Polymer/NaY Fiber Sorbents for Mercaptan Removal from Natural Gas. ACS Applied Materials & Diterfaces, 2016, 8, 9700-9709.	4.0	47
687	Hydrodynamics and gas transfer performance of confined hollow fibre membrane modules with the aid of computational fluid dynamics. Journal of Membrane Science, 2016, 513, 117-128.	4.1	19
688	Triple-bore hollow fiber membrane contactor for liquid desiccant based air dehumidification. Journal of Membrane Science, 2016, 514, 135-142.	4.1	40
689	Experimental evaluation and thermodynamic modeling of hydrate selectivity in separation of CO2 and CH4. Chemical Engineering Research and Design, 2016, 111, 262-268.	2.7	21
690	Designing the inner surface corrugations of hollow fibers to enhance CO 2 absorption efficiency. Journal of Colloid and Interface Science, 2016, 476, 35-46.	5.0	8
691	Modeling of carbon dioxide removal using membrane contactors. , 2016, , .		0
692	Carbon dioxide absorption by ammonia intensified with membrane contactors. Clean Technologies and Environmental Policy, 2016, 18, 2133-2146.	2.1	11
693	Removal of trichloroethylene from water in the catalytic membrane reactor. Catalysis Today, 2016, 268, 150-155.	2.2	3
694	Toward gas-phase controlled mass transfer in micro-porous membrane contactors for recovery and concentration of dissolved methane in the gas phase. Journal of Membrane Science, 2016, 510, 466-471.	4.1	42
695	Pilot tests of CO2 capture in brick production industry using gas–liquid contact membranes. International Journal of Energy and Environmental Engineering, 2016, 7, 61-68.	1.3	6
696	Improving gas absorption efficiency using a novel dual membrane contactor. Journal of Membrane Science, 2016, 510, 249-258.	4.1	11
697	Potentialities of a dense skin hollow fiber membrane contactor for biogas purification by pressurized water absorption. Journal of Membrane Science, 2016, 513, 236-249.	4.1	42
698	Encapsulation. , 2016, , 703-704.		1
699	Comparative study of degassing membrane modules for the removal of methane from Expanded Granular Sludge Bed anaerobic reactor effluent. Separation and Purification Technology, 2016, 170, 22-29.	3.9	58
700	Ethanol–Water Mixtures: Separation by Pervaporation. , 2016, , 723-727.		0

#	ARTICLE	IF	CITATIONS
701	Electrospun Nanofiber Membrane for Biosensors. , 2016, , 660-663.		0
702	Analysis of the effect of module design on gas absorption in cross flow hollow membrane contactors via computational fluid dynamics (CFD) analysis. Journal of Membrane Science, 2016, 520, 415-424.	4.1	22
703	Th(IV) transport from nitrate media through hollow fiber renewal liquid membrane. Journal of Membrane Science, 2016, 520, 374-384.	4.1	15
704	Uranium recovery from simulated molybdenum-99 production residue using non-dispersive membrane based solvent extraction. Hydrometallurgy, 2016, 164, 330-333.	1.8	10
705	Encapsulation Efficiency., 2016,, 706-707.		15
706	Ease of Expansion in Gas Separation. , 2016, , 623-623.		0
707	Absorption of Sulfur Dioxide in a Transversal Flow Hollow Fiber Membrane Contactor. , 2016, , 393-399.		1
708	Experimental measurement of drop-size and estimation of specific interfacial area in a helical microbore tube based micromixer-settler with 30% TBP/nitric acid system. Chemical Engineering and Processing: Process Intensification, 2016, 107, 151-156.	1.8	5
709	Kinetics of Ge(IV) Extraction Using a Microstructured Membrane Contactor. International Journal of Chemical Kinetics, 2016, 48, 609-621.	1.0	9
710	Electromembrane Processes., 2016,, 647-649.		0
711	Modeling SO2 absorption into water accompanied with reversible reaction in a hollow fiber membrane contactor. Chemical Engineering Science, 2016, 156, 136-146.	1.9	29
712	Valorization of ammonia concentrates from treated urban wastewater using liquid–liquid membrane contactors. Chemical Engineering Journal, 2016, 302, 641-649.	6.6	55
713	Natural gas quality enhancement: A review of the conventional treatment processes, and the industrial challenges facing emerging technologies. Journal of Natural Gas Science and Engineering, 2016, 34, 689-701.	2.1	49
714	Ethanol Production by Continuous Fermentation-Pervaporation. , 2016, , 721-722.		0
715	Electro-Fenton Process., 2016,, 642-643.		3
716	Testing and performance analysis of a hollow fiber-based core for evaporative cooling and liquid desiccant dehumidification. International Journal of Green Energy, 2016, 13, 1388-1399.	2.1	10
717	Electrodialysis., 2016,, 632-633.		1
718	Electrofiltration., 2016,, 643-644.		0

#	ARTICLE	IF	CITATIONS
719	Non-dispersive solvent extraction of p-toluic acid from purified terephthalic acid plant wastewater with p-xylene as extractant. Journal of Zhejiang University: Science A, 2016, 17, 828-840.	1.3	4
720	Long-Term Stability of Polytetrafluoroethylene (PTFE) Hollow Fiber Membranes for CO ₂ Capture. Energy & amp; Fuels, 2016, 30, 492-503.	2.5	31
721	Physikalische Verfahren zur Entalkoholisierung verschiedener GetrÄnkematrizes und deren Einfluss auf qualitÄtsrelevante Merkmale. Chemie-Ingenieur-Technik, 2016, 88, 1911-1928.	0.4	6
722	Removal of carbon dioxide by aqueous amino acid salts using hollow fiber membrane contactors. Journal of CO2 Utilization, 2016, 16, 42-49.	3.3	32
723	Simulation of convective-diffusional processes in hollow fiber membrane contactors. Separation and Purification Technology, 2016, 167, 63-69.	3.9	17
724	Breathable waveguides for combined light and CO2 delivery to microalgae. Bioresource Technology, 2016, 209, 391-396.	4.8	13
725	Novel method for the design and assessment of direct contact membrane distillation modules. Journal of Membrane Science, 2016, 513, 260-269.	4.1	15
726	Pd-doped organosilica membrane with enhanced gas permeability and hydrothermal stability for gas separation. Journal of Materials Science, 2016, 51, 6275-6286.	1.7	37
727	Reactive extraction of bio-based 3-hydroxypropionic acid assisted by hollow-fiber membrane contactor using TOA and Aliquat 336 in $\langle i \rangle$ n $\langle i \rangle$ -decanol. Journal of Chemical Technology and Biotechnology, 2016, 91, 2705-2712.	1.6	24
728	CO 2 absorption using gas-liquid membrane contactors made of highly porous poly(vinyl chloride) hollow fiber membranes. International Journal of Greenhouse Gas Control, 2016, 52, 13-23.	2.3	32
729	Separation of yttrium from rare earth using hollow fiber-supported liquid membrane: factorial design analysis. Desalination and Water Treatment, 2016, 57, 3985-3994.	1.0	15
730	Modeling and simulation of membrane separation process using computational fluid dynamics. Arabian Journal of Chemistry, 2016, 9, 72-78.	2.3	21
731	A comparative study on the structure of developed porous PVDF and PEI hollow fiber membrane contactors for CO2 absorption. Journal of Polymer Research, 2016, 23, 1.	1.2	12
732	Separation of mercury and arsenic from produced water via hollow fiber contactor: Kinetic and mass transfer analysis. Korean Journal of Chemical Engineering, 2016, 33, 197-206.	1.2	7
733	Purification of biodiesel using a membrane contactor: Liquid–liquid extraction. Fuel Processing Technology, 2016, 142, 352-360.	3.7	29
734	Comparison of hollow fiber module designs in membrane distillation process employed lumen-side and shell-side feed. Desalination and Water Treatment, 2016, 57, 7700-7710.	1.0	4
735	Functionalization of Flat Sheet and Hollow Fiber Microfiltration Membranes for Water Applications. ACS Sustainable Chemistry and Engineering, 2016, 4, 907-918.	3.2	34
736	An investigation of temperature effects on the properties and CO 2 absorption performance of porous PVDF/montmorillonite mixed matrix membranes. Journal of Natural Gas Science and Engineering, 2016, 31, 515-524.	2.1	19

#	ARTICLE	IF	CITATIONS
737	CFD Simulation of Hydrogen Separation in Pd Hollow Fiber Membrane. Chemical Product and Process Modeling, 2016, 11, 83-88.	0.5	1
738	Mathematical modeling of aroma compound recovery from natural sources using hollow fiber membrane contactors with small packing fraction. Chemical Engineering and Processing: Process Intensification, 2016, 102, 194-201.	1.8	12
739	Performance evaluation of composite and microporous gas–liquid membrane contactors for CO2 removal from a gas mixture. Chemical Engineering and Processing: Process Intensification, 2016, 102, 202-209.	1.8	17
740	Influence of silica nanoparticles on mass transfer in a membrane-based micro-contactor. RSC Advances, 2016, 6, 19089-19097.	1.7	16
741	Membranes and crystallization processes: State of the art and prospects. Journal of Membrane Science, 2016, 509, 57-67.	4.1	83
742	Rope coiling spinning of curled and meandering hollow-fiber membranes. Journal of Membrane Science, 2016, 506, 86-94.	4.1	23
743	Preparation of heat-treated PAN/SiO2 hybrid hollow fiber membrane contactor for acetylene absorption. Separation and Purification Technology, 2016, 159, 116-123.	3.9	13
744	Experimental investigation of gas dehumidification by tri-ethylene glycol in hollow fiber membrane contactors. Journal of Industrial and Engineering Chemistry, 2016, 34, 390-396.	2.9	26
745	An improved process for biocatalytic asymmetric amine synthesis by in situ product removal using a supported liquid membrane. Journal of Molecular Catalysis B: Enzymatic, 2016, 123, 1-7.	1.8	32
746	Separation of Co(II)/Ni(II) with Cyanex 272 using a flat membrane microcontactor: Extraction kinetics study. Journal of Membrane Science, 2016, 499, 370-378.	4.1	10
747	Separation of ammonia from radioactive wastewater by hydrophobic membrane contactor. Progress in Nuclear Energy, 2016, 86, 97-102.	1.3	50
748	Combination of ionic liquids with membrane technology: A new approach for CO2 separation. Journal of Membrane Science, 2016, 497, 1-20.	4.1	439
749	Advances in preparation, modification, and application of polypropylene membrane. Journal of Polymer Engineering, 2016, 36, 329-362.	0.6	133
7 50	Selective removal of zinc using tri-ethanolamine-based supported liquid membrane. Desalination and Water Treatment, 2016, 57, 8549-8560.	1.0	9
751	Post-combustion CO2 membrane absorption promoted by mimic enzyme. Journal of Membrane Science, 2016, 499, 36-46.	4.1	24
752	New 3-dimensional CFD modeling of CO2 and H2S simultaneous stripping from water within PVDF hollow fiber membrane contactor. Heat and Mass Transfer, 2016, 52, 1295-1304.	1.2	12
753	CFD simulation of water transport through porous membrane evaporators. Desalination and Water Treatment, 2016, 57, 10515-10522.	1.0	0
754	Nanomanufacturing of high-performance hollow fiber nanofiltration membranes by coating uniform block polymer films from solution. Journal of Materials Chemistry A, 2017, 5, 3358-3370.	5.2	27

#	Article	IF	Citations
755	Modelling, simulation, and membrane wetting estimation in gasâ€liquid contacting processes. Canadian Journal of Chemical Engineering, 2017, 95, 1352-1363.	0.9	4
756	Potential applications of membrane separation for subsea natural gas processing: A review. Journal of Natural Gas Science and Engineering, 2017, 39, 101-117.	2.1	91
757	A research on CO 2 removal via hollow fiber membrane contactor: The effect of heat treatment. Chemical Engineering Research and Design, 2017, 120, 218-230.	2.7	12
758	Membrane contactors for process intensification of gas absorption into physical solvents: Impact of dean vortices. Journal of Membrane Science, 2017, 530, 20-32.	4.1	21
759	Biogas upgrading using membrane contactor process: Pressure-cascaded stripping configuration. Separation and Purification Technology, 2017, 183, 358-365.	3.9	36
760	Automation of membrane based solvent extraction unit for Zr and Hf separation. Separation and Purification Technology, 2017, 179, 204-214.	3.9	7
761	Wetting mechanism of a PVDF hollow fiber membrane in immersed membrane contactors for CO ₂ capture in the presence of monoethanolamine. RSC Advances, 2017, 7, 13451-13457.	1.7	25
762	Process intensification: The future for enzymatic processes?. Biochemical Engineering Journal, 2017, 121, 196-223.	1.8	42
763	Formulation of Generalized Mass Transfer Correlations for Blood Oxygenator Design. Journal of Biomechanical Engineering, 2017, 139, .	0.6	12
764	Investigation of CO ₂ removal by immobilized carbonic anhydrase enzyme in a hollowâ€fiber membrane bioreactor. AICHE Journal, 2017, 63, 2996-3007.	1.8	33
765	Design and fabrication of hollow fiber membrane modules. Journal of Membrane Science, 2017, 538, 96-107.	4.1	122
766	CO2 Removal from Biogas as Product of Waste-Water-Treatments. Lecture Notes in Civil Engineering, 2017, , 451-456.	0.3	0
767	Improving docosahexaenoic acid production by <i>Schizochytrium</i> sp. using a newly designed highâ€oxygenâ€supply bioreactor. AICHE Journal, 2017, 63, 4278-4286.	1.8	55
768	Development of a mechanistic model for prediction of CO2 capture from gas mixtures by amine solutions in porous membranes. Environmental Science and Pollution Research, 2017, 24, 14508-14515.	2.7	17
769	Coupled heat and mass transfer in a cross-flow hollow fiber membrane absorption heat pump (HFMAHP). Applied Thermal Engineering, 2017, 111, 1119-1128.	3.0	12
770	Preparation of porous hydrophobic poly(vinylidene fluoride-co-hexafluoropropylene) hollow fiber membrane contactors for CO 2 stripping. Journal of the Taiwan Institute of Chemical Engineers, 2017, 76, 156-166.	2.7	26
771	Theoretical and experimental study of the ammonia/water absorption process using a flat sheet membrane module. Applied Thermal Engineering, 2017, 124, 477-485.	3.0	18
772	Mathematical Modeling and Simulation of Propylene Absorption Using Membrane Contactors. Chemical Engineering and Technology, 2017, 40, 1652-1659.	0.9	4

#	Article	IF	CITATIONS
773	Ozone mass transfer behaviors on physical and chemical absorption for hollow fiber membrane contactors. Water Science and Technology, 2017, 76, 1360-1369.	1.2	12
774	Advice for emerging researchers on research program development: A personal case study. AICHE Journal, 2017, 63, 3627-3635.	1.8	1
775	Carbon capture by absorption – Path covered and ahead. Renewable and Sustainable Energy Reviews, 2017, 76, 1080-1107.	8.2	193
776	Current and Future Trends Toward Reduction of CO2 Emission from Steel Industries. Green Energy and Technology, 2017, , 245-256.	0.4	0
777	Laminar flow and conjugate heat and mass transfer in a hollow fiber membrane bundle used for seawater desalination. International Journal of Heat and Mass Transfer, 2017, 111, 123-137.	2.5	24
778	Potential application of perfusion and pertraction for in situ product removal in biocatalytic 2-phenylethanol production. Separation and Purification Technology, 2017, 183, 11-20.	3.9	14
779	Carbon Utilization. Green Energy and Technology, 2017, , .	0.4	1
780	Explicit equation for the determination of the overall mass transfer coefficient in a hollow fiber membrane contactor. Chemical Engineering Science, 2017, 166, 210-219.	1.9	1
781	Sinusoidal shaped hollow fibers for enhanced mass transfer. Journal of Membrane Science, 2017, 533, 302-308.	4.1	28
782	Numerical simulation of reactive extraction of benzoic acid from wastewater via membrane contactors. Environmental Science and Pollution Research, 2017, 24, 11518-11527.	2.7	8
783	Gas-liquid absorption in industrial cross-flow membrane contactors: Experimental and numerical investigation of the influence of transmembrane pressure on partial wetting. Chemical Engineering Science, 2017, 170, 561-573.	1.9	12
784	Evapoporometry adaptation to determine the lumen-side pore-size distribution (PSD) of hollow fiber and tubular membranes. Journal of Membrane Science, 2017, 526, 1-8.	4.1	10
785	Mass and heat transfer study in osmotic membrane distillation-crystallization for CO2 valorization as sodium carbonate. Separation and Purification Technology, 2017, 176, 173-183.	3.9	28
786	Ozonation of acid red 18 wastewater using O3/Ca(OH)2 system in a micro bubble gas-liquid reactor. Journal of Environmental Chemical Engineering, 2017, 5, 283-291.	3.3	53
787	Wastewater Treatment by Heterogeneous Fenton-Like Processes in Continuous Reactors. Handbook of Environmental Chemistry, 2017, , 211-255.	0.2	4
788	Enzyme Carbonic Anhydrase Accelerated CO2 Absorption in Membrane Contactor. Energy Procedia, 2017, 114, 17-24.	1.8	15
789	Superhydrophobic Membrane Contactor for Acid Gas Removal. Journal of Physics: Conference Series, 2017, 877, 012010.	0.3	10
790	Self-Regulated Ion Permeation through Extraction Membranes. Langmuir, 2017, 33, 9873-9879.	1.6	9

#	Article	IF	CITATIONS
792	Analytical study of membrane wetting at high operating pressure for physical absorption of CO2 using hollow fiber membrane contactors. Chemical Engineering Research and Design, 2017, 126, 265-277.	2.7	10
793	Investigation of mass transfer coefficient of CO2 absorption into amine solutions in hollow fiber membrane contactor. Energy Procedia, 2017, 114, 621-626.	1.8	4
794	Biological hydrogen methanation – A review. Bioresource Technology, 2017, 245, 1220-1228.	4.8	147
795	Simultaneous Separation of H ₂ S and CO ₂ from Biogas by Gas–Liquid Membrane Contactor Using Single and Mixed Absorbents. Energy & Ene	2.5	41
796	Application of membrane contactors to remove hydrogen sulfide from sour water. Journal of Membrane Science, 2017, 541, 378-385.	4.1	23
797	Physical Methods for Dealcoholization of Beverage Matrices and their Impact on Quality Attributes. ChemBioEng Reviews, 2017, 4, 310-326.	2.6	41
798	Reactive Extraction and Critical Raw Materials: Industrial Recovery of Tungsten. Chemie-Ingenieur-Technik, 2017, 89, 82-91.	0.4	11
799	Experimental investigation of the effects of different chemical absorbents on wetting and morphology of poly(vinylidene fluoride) membrane. Journal of Applied Polymer Science, 2017, 134, 45543.	1.3	7
800	Kinetic study and process model development of CO 2 absorption using hollow fiber membrane contactor with promoted hot potassium carbonate. Journal of Environmental Chemical Engineering, 2017, 5, 4415-4430.	3.3	13
801	Dissolved gas separation for engineered anaerobic wastewater systems. Separation and Purification Technology, 2017, 189, 405-418.	3.9	51
802	Exploring CO2 capture from pressurized industrial gaseous effluents in membrane contactor-based pilot plant. International Journal of Greenhouse Gas Control, 2017, 67, 60-70.	2.3	12
803	Mechanistic modeling of the loss of protein sieving due to internal and external fouling of microfilters. Biotechnology Progress, 2017, 33, 1323-1333.	1.3	25
804	Demethanization of aqueous anaerobic effluents using a polydimethylsiloxane membrane module: Mass transfer, fouling and energy analysis. Separation and Purification Technology, 2017, 186, 10-19.	3.9	52
805	Polymer-fluorinated silica composite hollow fiber membranes for the recovery of biogas dissolved in anaerobic effluent. Journal of Membrane Science, 2017, 540, 146-154.	4.1	46
806	Transport properties of CO2 and CH4 in hollow fiber membrane contactor for the recovery of biogas from anaerobic membrane bioreactor effluent. Journal of Membrane Science, 2017, 541, 62-72.	4.1	42
807	Thorium pertraction through hollow fiber renewal liquid membrane (HFRLM) using Cyanex 272 as carrier. Progress in Nuclear Energy, 2017, 100, 209-220.	1.3	12
808	Porous polyethersulfone hollow fiber membrane in CO2 separation process via membrane contactor - The effect of nonsolvent additives. Korean Journal of Chemical Engineering, 2017, 34, 160-169.	1.2	14
809	1,2,3-Trimethoxypropane: A Glycerol-Derived Physical Solvent for CO ₂ Absorption. ACS Sustainable Chemistry and Engineering, 2017, 5, 911-921.	3.2	28

#	Article	IF	CITATIONS
810	Modeling and simulation of phenol removal from wastewater using a membrane contactor as a bioreactor. Applied Mathematical Modelling, 2017, 42, 300-314.	2.2	10
811	Membrane-assisted crystallization: Membrane characterization, modelling and experiments. Chemical Engineering Science, 2017, 158, 277-286.	1.9	25
812	Process and engineering trends in membrane based carbon capture. Renewable and Sustainable Energy Reviews, 2017, 68, 659-684.	8.2	124
813	CO2 capture using a functional protic ionic liquid by membrane absorption. Journal of the Energy Institute, 2017, 90, 933-940.	2.7	20
814	Importance of uniform distribution of impregnated trioctylphosphine oxide in hollow fiber membranes for simultaneous extraction/stripping of phenol. Chemical Engineering Journal, 2017, 308, 727-737.	6.6	6
815	Tube-side mass transfer for hollow fibre membrane contactors operated in the low Graetz range. Journal of Membrane Science, 2017, 523, 235-246.	4.1	26
816	Surface modification of poly(vinylidene fluoride) hollow fibre membranes for biogas purification in a gas–liquid membrane contactor system. Royal Society Open Science, 2017, 4, 171321.	1.1	19
817	Modeling of Ethylene Absorption from an Ethylene–Ethane Mixture by Silver Nitrate Aqueous Solution in a Hollow-Fiber Membrane Contactor. Petroleum Chemistry, 2017, 57, 1242-1249.	0.4	3
818	Membrane-Based Separation., 2017,, 19-55.		1
819	1.7 PVDF Hollow Fibers Membranes. , 2017, , 137-189.		10
820	3.9 Membranes Contactors for Intensified Gas–Liquid Absorption Processes. , 2017, , 249-281.		4
821	Modelling of Ozone Mass-Transfer through Non-Porous Membranes for Water Treatment. Water (Switzerland), 2017, 9, 452.	1.2	23
822	Simulation of Carbon Dioxide Removal by Three Amine Mixture of Diethanolamine, Methyldiethanolamine, and 2-Amino- 2-Methyl-1-Propanol in a Hollow Fiber Membrane Contactor Using Computational Fluid Dynamics. Periodica Polytechnica: Chemical Engineering, 2017, 61, 227-235.	0.5	1
823	4.10Basic Aspects and Applications of Membrane Processes in Agro-Food and Bulk Biotech Industries. , 2017, , 189-213.		3
824	3.4 Multiphase Membrane Reactors. , 2017, , 72-100.		0
825	Membrane Contactor., 2017,, 335-356.		0
826	Membrane Separation of CO2 from Natural Gas. Recent Patents on Materials Science, 2017, 10, .	0.5	5
827	Effect of Operating Conditions on Separation of H2S from Biogas Using a Chemical Assisted PDMS Membrane Process. Waste and Biomass Valorization, 2018, 9, 2349-2359.	1.8	9

#	Article	IF	CITATIONS
828	Energy analysis and optimization of hollow fiber membrane contactors for recovery of dissolve methane from anaerobic membrane bioreactor effluent. Journal of Membrane Science, 2018, 554, 184-194.	4.1	48
829	Influence of non-wetting, partial wetting and complete wetting modes of operation on hydrogen sulfide removal utilizing monoethanolamine absorbent in hollow fiber membrane contactor. Sustainable Environment Research, 2018, 28, 186-196.	2.1	35
830	Membrane-assisted extraction of monoterpenes: from <i>in silico</i> solvent screening towards biotechnological process application. Royal Society Open Science, 2018, 5, 172004.	1.1	15
831	Uranium recovery and purification from simulated waste streams containing high uranium concentrations with dispersion liquid membranes. Journal of Radioanalytical and Nuclear Chemistry, 2018, 317, 355-366.	0.7	3
832	Evaluation of a dense skin hollow fiber gas-liquid membrane contactor for high pressure removal of CO2 from syngas using Selexol as the absorbent. Chemical Engineering Science, 2018, 184, 186-199.	1.9	24
833	Carbon dioxide capture using an omniphobic membrane for a gas-liquid contacting process. Journal of Membrane Science, 2018, 556, 227-237.	4.1	36
834	Effects of water condensation on hollow fiber membrane contactor performance for CO2 capture by absorption into a chemical solvent. Journal of Membrane Science, 2018, 556, 365-373.	4.1	14
835	Application of pseudo-emulsion based hollow fiber strip dispersion with task-specific ionic liquids for recovery of zinc(II) from chloride solutions. Journal of Molecular Liquids, 2018, 254, 369-376.	2.3	10
836	CFD simulation of copper(II) extraction with TFA in non-dispersive hollow fiber membrane contactors. Environmental Science and Pollution Research, 2018, 25, 12053-12063.	2.7	38
837	The effect of membrane pores wettability on CO2 removal from CO2/CH4 gaseous mixture using NaOH, MEA and TEA liquid absorbents in hollow fiber membrane contactor. Chinese Journal of Chemical Engineering, 2018, 26, 1845-1861.	1.7	53
838	Vacuum membrane distillation of liquid desiccants utilizing hollow fiber membranes. Separation and Purification Technology, 2018, 199, 57-63.	3.9	40
839	Modeling for design and operation of high-pressure membrane contactors in natural gas sweetening. Chemical Engineering Research and Design, 2018, 132, 1005-1019.	2.7	26
840	Modeling and simulation of CO2 separation from CO2/CH4 gaseous mixture using potassium glycinate, potassium argininate and sodium hydroxide liquid absorbents in the hollow fiber membrane contactor. Journal of Environmental Chemical Engineering, 2018, 6, 1500-1511.	3.3	51
841	CO2 capture by aqueous ammonia with hollow fiber membrane contactors: Gas phase reactions and performance stability. Separation and Purification Technology, 2018, 199, 189-197.	3.9	18
842	Ultrathin graphene oxide membranes on freestanding carbon nanotube supports for enhanced selective permeation in organic solvents. Scientific Reports, 2018, 8, 1959.	1.6	34
843	CO ₂ Capture Using Hollow Fiber Membranes: A Review of Membrane Wetting. Energy & Energy & Fuels, 2018, 32, 963-978.	2.5	101
844	Polyetherimide hollow fiber membranes for CO ₂ absorption and stripping in membrane contactor application. RSC Advances, 2018, 8, 3556-3563.	1.7	18
846	A modeling study of module arrangement and experimental investigation of single stage module for physical absorption of biogas using hollow fiber membrane contactors. Journal of Membrane Science, 2018, 549, 283-294.	4.1	12

#	Article	IF	CITATIONS
847	Development of moisture absorber based on hydrophilic nonporous membrane mass exchanger and alkoxylated siloxane liquid desiccant. Energy and Buildings, 2018, 160, 34-43.	3.1	15
848	Experimental study on the effects of an ionic liquid for CO2 capture using hollow fiber membrane contactors. International Journal of Greenhouse Gas Control, 2018, 69, 1-7.	2.3	33
849	High-efficiency hollow fiber arrangement design to enhance filtration performance by CFD simulation. Chemical Engineering and Processing: Process Intensification, 2018, 125, 87-96.	1.8	21
850	State-of-art in modelling methods of membrane-based liquid desiccant heat and mass exchanger: A comprehensive review. International Journal of Heat and Mass Transfer, 2018, 125, 445-470.	2.5	46
851	Process engineering for microbial production of 3-hydroxypropionic acid. Biotechnology Advances, 2018, 36, 1207-1222.	6.0	59
852	Critical review of abatement of ammonia from wastewater. Journal of Molecular Liquids, 2018, 261, 21-31.	2.3	143
853	Gas-liquid membrane contactors: Modeling study of non-uniform membrane wetting. Journal of Membrane Science, 2018, 555, 463-472.	4.1	9
854	CO2 stripping from ionic liquid at elevated pressures in gas-liquid membrane contactor. International Journal of Greenhouse Gas Control, 2018, 71, 293-302.	2.3	31
855	Membrane contactor for subsea natural gas dehydration: Model development and sensitivity study. Journal of Membrane Science, 2018, 556, 263-276.	4.1	14
856	Performance evaluation of mass transfer correlations in the GFMA process: A review with perspectives to the design. Journal of Membrane Science, 2018, 554, 140-155.	4.1	12
857	Mathematical Modeling and Simulation of Nitrate Separation from Contaminated Water in a Membrane Contactor. Iranian Journal of Science and Technology, Transaction A: Science, 2018, 42, 1223-1231.	0.7	3
858	Emerging microalgae technology: a review. Sustainable Energy and Fuels, 2018, 2, 13-38.	2.5	74
859	Enhancing CO ₂ absorption efficiency using a novel PTFE hollow fiber membrane contactor at elevated pressure. AICHE Journal, 2018, 64, 2135-2145.	1.8	18
860	Application and modification of polysulfone membranes. Reviews in Chemical Engineering, 2018, 34, 657-693.	2.3	66
861	Fluid flow and heat transfer across a curved hollow fiber membrane tube bank (CHFMTB): Effects of the tube deformations. International Journal of Heat and Mass Transfer, 2018, 116, 471-483.	2.5	12
862	Alternative pathways for efficient CO2 capture by hybrid processes—A review. Renewable and Sustainable Energy Reviews, 2018, 82, 215-231.	8.2	236
863	Process intensification by coupling the Joule effect with pervaporation and sweeping gas membrane distillation. Journal of Membrane Science, 2018, 545, 150-157.	4.1	32
864	Effect of non-solvent additive concentration on CO2 absorption performance of polyvinylidenefluoride hollow fiber membrane contactor. Separation and Purification Technology, 2018, 191, 38-47.	3.9	29

#	Article	IF	CITATIONS
865	Recovery of mixed volatile fatty acids from anaerobically fermented organic wastes by vapor permeation membrane contactors. Bioresource Technology, 2018, 250, 548-555.	4.8	78
866	A hybrid membrane gas absorption and bio-oxidation process for the removal of hydrogen sulfide from biogas. International Biodeterioration and Biodegradation, 2018, 127, 69-76.	1.9	43
867	Separation of nitrous oxide from aqueous solutions applying a micro porous hollow fiber membrane contactor for energy recovery. Separation and Purification Technology, 2018, 195, 271-280.	3.9	23
868	Optimization of hydrophobic modification parameters of microporous polyvinylidene fluoride hollow-fiber membrane for biogas recovery from anaerobic membrane bioreactor effluent. Journal of Membrane Science, 2018, 548, 510-518.	4.1	48
869	Experimental and Numerical Investigation of CO ₂ Absorption Using Nanofluids inÂaÂHollowâ€Fiber Membrane Contactor. Chemical Engineering and Technology, 2018, 41, 367-378.	0.9	26
870	CO2 separation performance of different diameter polytetrafluoroethylene hollow fiber membranes using gas-liquid membrane contacting system. Journal of Membrane Science, 2018, 549, 75-83.	4.1	26
871	A novel process for oxygen absorption from air using hollow fiber gas-liquid membrane contactor. Separation and Purification Technology, 2018, 193, 283-288.	3.9	4
872	Novel dense skin hollow fiber membrane contactor based process for CO2 removal from raw biogas using water as absorbent. Separation and Purification Technology, 2018, 193, 112-126.	3.9	28
873	Metal Extraction from Deep-Ocean Mineral Deposits. Elements, 2018, 14, 319-324.	0.5	6
874	A Single Tube Contactor for Testing Membrane Ozonation. Water (Switzerland), 2018, 10, 1416.	1.2	16
875	Membrane-based technologies for post-treatment of anaerobic effluents. Npj Clean Water, 2018, 1, .	3.1	30
876	Experimental study on emission of VOCs from tanker using hollow fiber membrane absorption method with different absorbents. IOP Conference Series: Materials Science and Engineering, 2018, 292, 012113.	0.3	3
877	Fundamentals of Biomaterials. , 2018, , .		20
878	Recovery of Dissolved Methane From Anaerobic Membrane Bioreactor Using Degassing Membrane Contactors. Frontiers in Environmental Science, 2018, 6, .	1.5	38
879	Technology Evolution in Membrane-Based CCS. Energies, 2018, 11, 3153.	1.6	22
880	Blood Interfacing Applications. , 2018, , 233-256.		0
881	Membrane Gas Absorption Processes: Applications, Design and Perspectives. , 0, , .		0
882	Immobilized carbonic anhydrase: preparation, characteristics and biotechnological applications. World Journal of Microbiology and Biotechnology, 2018, 34, 151.	1.7	27

#	Article	IF	CITATIONS
883	A novel experimental apparatus for the study of low temperature regeneration CO2 capture solvents using hollow fibre membrane contactors. International Journal of Greenhouse Gas Control, 2018, 78, 228-235.	2.3	11
884	Lipaseâ€catalyzed hydrolysis of (R , S)â€2,3â€diphenylpropionic methyl ester enhanced by hydroxypropylâ€Î²â€cyclodextrin. Biotechnology Progress, 2018, 34, 1355-1362.	1.3	1
885	Gas-Liquid Hollow Fiber Membrane Contactors for Different Applications. Fibers, 2018, 6, 76.	1.8	83
886	Gas-liquid membrane contactors: Effects of polymer concentration and solvent type on pore size distribution. Journal of Membrane Science, 2018, 563, 813-819.	4.1	6
887	Design optimizations of the thermal performance and cost in an air-gap hollow fiber membrane contactor (AHFMC). International Journal of Heat and Mass Transfer, 2018, 125, 1264-1273.	2.5	4
888	Mass transfer correlations for membrane gas-solvent contactors undergoing carbon dioxide desorption. Chinese Journal of Chemical Engineering, 2018, 26, 2337-2343.	1.7	5
889	Different Bioengineering Approaches on Production of Bioflavor Compounds., 2018,, 37-71.		7
890	Thermodynamic analyses and optimizations of extraction process of CO2 from acidic seawater by using hollow fiber membrane contactor. International Journal of Heat and Mass Transfer, 2018, 124, 1310-1320.	2.5	25
891	Performance of a polypropylene membrane contactor for the recovery of dissolved methane from anaerobic effluents: Mass transfer evaluation, long-term operation and cleaning strategies. Journal of Membrane Science, 2018, 563, 926-937.	4.1	54
892	Membrane contactors: An alternative for de-aeration of salt solutions?. Separation and Purification Technology, 2018, 205, 231-240.	3.9	12
893	Experimental investigation and mathematical modeling of CO2 sequestration from CO2/CH4 gaseous mixture using MEA and TEA aqueous absorbents through polypropylene hollow fiber membrane contactor. Journal of Membrane Science, 2018, 565, 1-13.	4.1	70
894	Computational Modeling of Oxygen Transfer in Artificial Lungs. Artificial Organs, 2018, 42, 786-799.	1.0	24
895	Membrane contactors., 2018,, 153-208.		10
896	CO2 Capture by Alkaline Solution for Carbonate Production: A Comparison between a Packed Column and a Membrane Contactor. Applied Sciences (Switzerland), 2018, 8, 996.	1.3	38
897	Assessment of Industrial Modules to Design a GFMA Process for Cyanide Recovery Based on a Phenomenological Model. Processes, 2018, 6, 34.	1.3	6
898	Membrane crystallization via membrane distillation. Chemical Engineering and Processing: Process Intensification, 2018, 123, 258-271.	1.8	77
899	Simultaneous absorption of carbon dioxide and nitrogen dioxide from simulated flue gas stream using gas-liquid membrane contacting system. International Journal of Greenhouse Gas Control, 2018, 77, 37-45.	2.3	25
900	Harnessing Filler Materials for Enhancing Biogas Separation Membranes. Chemical Reviews, 2018, 118, 8655-8769.	23.0	239

#	Article	IF	CITATIONS
901	Modelling of water-to-gas hollow fiber membrane humidifier. Chemical Engineering Science, 2018, 192, 955-971.	1.9	11
902	A comprehensive study of glucose transfer in the human small intestine using an in vitro intestinal digestion system (i-IDS) based on a dialysis membrane process. Journal of Membrane Science, 2018, 564, 700-711.	4.1	9
903	Modeling of CO ₂ capture from gas stream emissions of petrochemical industries by membrane contactor. Petroleum Science and Technology, 2018, 36, 1446-1454.	0.7	2
904	Modeling and simulation of CO2 capture in aqueous ammonia with hollow fiber composite membrane contactors using a selective dense layer. Chemical Engineering Science, 2018, 190, 345-360.	1.9	18
905	Modelling of CO2 absorption via hollow fiber membrane contactors: Comparison of pore gas diffusivity models. Chemical Engineering Science, 2018, 190, 110-121.	1.9	20
906	Modeling and CFD simulation of volatile organic compounds removal from wastewater by membrane gas stripping using an electro-spun nanofiber membrane. Journal of Water Process Engineering, 2019, 30, 100635.	2.6	7
907	Mass transfer performance and correlation for CO2 absorption into aqueous 1-Dimethylamino-2-propanol (1DMA2P) solution in a PTFE hollow fiber membrane contactor. Chemical Engineering and Processing: Process Intensification, 2019, 136, 226-233.	1.8	16
908	Pertraction-adsorption in situ product removal system: design and mathematical modeling. Chemical Engineering and Processing: Process Intensification, 2019, 143, 107604.	1.8	7
909	Experimental Study on the Selective Removal of SO ₂ from a Ship Exhaust Gas Stream Using a Membrane Contactor. Industrial & Engineering Chemistry Research, 2019, 58, 14897-14905.	1.8	20
910	Influence of membrane characteristics and operating parameters on transport properties of dissolved methane in a hollow fiber membrane contactor for biogas recovery from anaerobic effluents. Journal of Membrane Science, 2019, 589, 117263.	4.1	33
911	Gas transfer management by membrane contactors in an oenological context: Influence of operating parameters and membrane materials. Separation and Purification Technology, 2019, 227, 115733.	3.9	3
912	A Review on Porous Polymeric Membrane Preparation. Part I: Production Techniques with Polysulfone and Poly (Vinylidene Fluoride). Polymers, 2019, 11, 1160.	2.0	224
913	Modeling and Simulation of the Absorption of CO2 and NO2 from a Gas Mixture in a Membrane Contactor. Processes, 2019, 7, 441.	1.3	10
914	A review on polymer-based membranes for gas-liquid membrane contacting processes: Current challenges and future direction. Separation and Purification Technology, 2019, 229, 115791.	3.9	86
915	Computational simulation and theoretical modeling of CO2 separation using EDA, PZEA and PS absorbents inside the hollow fiber membrane contactor. Journal of Industrial and Engineering Chemistry, 2019, 78, 106-115.	2.9	41
916	Membrangestützte Flüssig/Flüssigâ€Extraktion – Wo stehen wir heute?. Chemie-Ingenieur-Technik, 2019 91, 1544-1553.	⁹ ,0.4	1
917	An integrated, solar-driven membrane distillation system for water purification and energy generation. Applied Energy, 2019, 237, 534-548.	5.1	127
918	An experiment and model of ceramic (alumina) hollow fiber membrane contactors for chemical absorption of CO2 in aqueous monoethanolamine (MEA) solutions. Korean Journal of Chemical Engineering, 2019, 36, 1669-1679.	1.2	13

#	Article	lF	Citations
919	Dense Membrane Crystallization in Gas–Liquid Systems: Key Parameters Influencing Fouling. Industrial & Lamp; Engineering Chemistry Research, 2019, 58, 20134-20146.	1.8	3
920	Membrane Absorption Coupling Process for CO ₂ Capture: Application of Water-Based ZnO, TiO ₂ , and Multi-Walled Carbon Nanotube Nanofluids. Energy & Energy	2.5	46
921	Numerical Simulation on Supercritical CO2 Fluid Dynamics in a Hollow Fiber Membrane Contactor. Computation, 2019, 7, 8.	1.0	4
922	A pHâ€based experimental method for carbon dioxide exchange evaluation in cylindrical hollow fiber membrane oxygenators. Asia-Pacific Journal of Chemical Engineering, 2019, 14, e2337.	0.8	3
923	Modification of membrane hydrophobicity in membrane contactors for environmental remediation. Separation and Purification Technology, 2019, 227, 115721.	3.9	21
924	Effects of porous media on extraction kinetics: Is the membrane really a limiting factor?. Journal of Membrane Science, 2019, 586, 318-325.	4.1	10
925	Performance analysis of a thermal-driven tubular direct contact membrane distillation system. Applied Thermal Engineering, 2019, 159, 113887.	3.0	21
926	Synthesis of ZIF-8 based composite hollow fiber membrane with a dense skin layer for facilitated biogas upgrading in gas-liquid membrane contactor. Journal of Membrane Science, 2019, 585, 238-252.	4.1	32
927	A closer look on the development and commercialization of membrane contactors for mass transfer and separation processes. Separation and Purification Technology, 2019, 227, 115679.	3.9	20
928	Diffusion membrane generation of 1-cyclohexylpiperidinium bicarbonate. Journal of Membrane Science, 2019, 583, 258-266.	4.1	7
929	Evaluation of microporous hollow fibre membranes for mass transfer of H ₂ into anaerobic digesters for biomethanization. Journal of Chemical Technology and Biotechnology, 2019, 94, 2693-2701.	1.6	8
930	PDMS-coated porous PVDF hollow fiber membranes for efficient recovery of dissolved biomethane from anaerobic effluents. Journal of Membrane Science, 2019, 584, 333-342.	4.1	44
931	Hollow fibre membrane-based liquid desiccant humidity control for controlled environment agriculture. Biosystems Engineering, 2019, 183, 47-57.	1.9	18
932	Experimental performance comparison of three flat sheet membranes operating in an adiabatic microchannel absorber. Applied Thermal Engineering, 2019, 152, 835-843.	3.0	13
933	Simulation of mass transfer in hollow fiber used for concentration of juices by osmotic distillation. Heliyon, 2019, 5, e01458.	1.4	0
934	The effect of heat treatment on hollow fiber membrane contactor for CO2 stripping. Separation and Purification Technology, 2019, 223, 186-195.	3.9	10
935	A novel electro-catalytic membrane contactor for improving the efficiency of ozone on wastewater treatment. Applied Catalysis B: Environmental, 2019, 249, 316-321.	10.8	49
936	Membrane-based carbon capture technologies: Membrane gas separation vs. membrane contactor. Journal of Natural Gas Science and Engineering, 2019, 67, 172-195.	2.1	138

#	Article	IF	CITATIONS
937	Effect of inorganic and organic compounds on the performance of fractional-submerged membrane distillation-crystallizer. Journal of Membrane Science, 2019, 582, 9-19.	4.1	11
938	Fabrication and characterization of poly(vinylidene fluoride)–polytetrafluoroethylene composite membrane for CO ₂ absorption in gas–liquid contacting process. Journal of Applied Polymer Science, 2019, 136, 47767.	1.3	8
939	Fluid flow and heat transfer of cross flow hollow fiber membrane contactors with randomly distributed fibers: A topological study. International Journal of Heat and Mass Transfer, 2019, 135, 186-198.	2.5	11
940	Experimental and modeling of CO2 removal from gas mixtures using membrane contactors packed with glass beads. Separation and Purification Technology, 2019, 217, 240-246.	3.9	10
941	Enhancing natural gas dehydration performance using electrospun nanofibrous sol-gel coated mixed matrix membranes. Korean Journal of Chemical Engineering, 2019, 36, 914-928.	1.2	8
942	The effect of molar ratio and flow velocity on the surface area required for pertraction of a Zr/Hf mixture. IOP Conference Series: Materials Science and Engineering, 2019, 655, 012041.	0.3	0
943	Automatization of membrane contactors and applications for the management of dissolved gases in wines. BIO Web of Conferences, 2019, 15, 02037.	0.1	0
944	Membrane Absorption of Ethylene from a Mixture with Ethane Using MDK-3 Composite Membranes. Russian Journal of Applied Chemistry, 2019, 92, 1826-1834.	0.1	1
945	General Way To Construct Micro- and Mesoporous Metal–Organic Framework-Based Porous Liquids. Journal of the American Chemical Society, 2019, 141, 19708-19714.	6.6	111
946	Numerical Simulation of Uranium Extraction from Nitric Acid Medium Using Hollow-Fiber Contactor. Solvent Extraction and Ion Exchange, 2019, 37, 526-544.	0.8	7
947	Chemical Absorption of CO2 Enhanced by Nanoparticles Using a Membrane Contactor: Modeling and Simulation. Membranes, 2019, 9, 150.	1.4	12
948	Nitrogen oxide reduction through absorbent solutions containing nitric acid and hydrogen peroxide in hollow fiber membrane modules. Heliyon, 2019, 5, e02987.	1.4	9
949	Fouling formation in membrane contactors for methane recovery from anaerobic effluents. Journal of Membrane Science, 2019, 573, 534-543.	4.1	42
950	Reproducing the pressure–time signature of membrane filtration: The interplay between fouling, caking, and elasticity. Journal of Membrane Science, 2019, 577, 235-248.	4.1	9
951	Analytical applications and physicochemical properties of ionic liquid-based hybrid materials: A review. Analytica Chimica Acta, 2019, 1054, 1-16.	2.6	99
952	Theoretical study of CO2 separation from CO2/CH4 gaseous mixture using 2-methylpiperazine -promoted potassium carbonate through hollow fiber membrane contactor. Journal of Environmental Chemical Engineering, 2019, 7, 102781.	3.3	28
953	Biocatalytic PVDF composite hollow fiber membranes for CO2 removal in gas-liquid membrane contactor. Journal of Membrane Science, 2019, 572, 532-544.	4.1	52
954	Removal of phenolic compounds from industrial waste water based on membrane-based technologies. Journal of Industrial and Engineering Chemistry, 2019, 71, 1-18.	2.9	228

#	Article	IF	CITATIONS
955	Surface modification of polymeric flat sheet membranes by adding oligomeric fluoroalcohol. Journal of Polymer Engineering, 2019, 39, 170-177.	0.6	1
956	Recent progress on fabrication methods of polymeric thin film gas separation membranes for CO2 capture. Journal of Membrane Science, 2019, 572, 38-60.	4.1	210
957	Modelling and optimisation of gas-liquid mass transfer in a microporous hollow fiber membrane aerated bioreactor used to produce surfactin. Biochemical Engineering Journal, 2019, 145, 109-119.	1.8	11
958	Effect of helical structure on ozone mass transfer in a hollow fiber membrane contactor. Journal of Membrane Science, 2019, 574, 222-234.	4.1	17
959	CO2 capture by ionic liquid membrane absorptionÂfor reduction of emissions of greenhouse gas. Environmental Chemistry Letters, 2019, 17, 1031-1038.	8.3	42
960	Nafion/TiO2 nanoparticle decorated thin film composite hollow fiber membrane for efficient removal of SO2 gas. Separation and Purification Technology, 2019, 211, 377-390.	3.9	25
961	Physical absorption of CO2 and H2S from synthetic biogas at elevated pressures using hollow fiber membrane contactors: The effects of Henry's constants and gas diffusivities. International Journal of Heat and Mass Transfer, 2019, 128, 1136-1148.	2.5	26
962	Demonstration of Hollow Fiber Membrane Technique for the Recovery of Plutonium from Analytical Laboratory Waste. Nuclear Technology, 2019, 205, 727-735.	0.7	5
963	Dissolved hydrogen sulfide removal from anaerobic bioreactor permeate by modified direct contact membrane distillation. Separation and Purification Technology, 2020, 233, 116036.	3.9	18
964	Insights into a membrane contactor based demonstration unit for CO2 capture. Separation and Purification Technology, 2020, 231, 115951.	3.9	30
965	Characterization of biofilm distribution in hollow fiber membranes using Compressed Sensing Magnetic Resonance Imaging. Journal of Membrane Science, 2020, 594, 117437.	4.1	13
966	Efficiency evaluation of novel liquid potassium lysinate chemical solution for CO2 molecular removal inside the hollow fiber membrane contactor: Comprehensive modeling and CFD simulation. Journal of Molecular Liquids, 2020, 297, 111561.	2.3	35
967	CO2 capture from coalbed methane using membranes: a review. Environmental Chemistry Letters, 2020, 18, 79-96.	8.3	46
968	Recovery of sodium sulfate from seawater brine using fractional submerged membrane distillation crystallizer. Chemosphere, 2020, 238, 124641.	4.2	43
969	CO2 capture in a hollow fiber membrane contactor coupled with ionic liquid: Influence of membrane wetting and process parameters. Separation and Purification Technology, 2020, 233, 115986.	3.9	79
970	Mathematical modeling of CO ₂ absorption with ionic liquids in a membrane contactor, study of absorption kinetics and influence of temperature. Journal of Chemical Technology and Biotechnology, 2020, 95, 1844-1857.	1.6	21
971	Characterization and mitigation of the fouling of flat-sheet ceramic membranes for direct filtration of the coagulated domestic wastewater. Journal of Hazardous Materials, 2020, 385, 121557.	6.5	40
972	CO ₂ Absorption Using Membrane Contactors: Recent Progress and Future Perspective. Industrial & Description of the Research, 2020, 59, 6773-6794.	1.8	66

#	Article	IF	CITATIONS
973	Simulation of vacuum distillation to produce alcohol-free beer. Journal of the Institute of Brewing, 2020, 126, 77-82.	0.8	2
974	Mathematical modeling of CO2 membrane absorption system using ionic liquid solutions. Chemical Engineering and Processing: Process Intensification, 2020, 147, 107743.	1.8	14
976	Mass transfer and interfacial reaction mechanisms in a novel electro-catalytic membrane contactor for wastewater treatment by O3. Applied Catalysis B: Environmental, 2020, 264, 118512.	10.8	16
977	How Computational Modeling can Help to Predict Gas Transfer in Artificial Lungs Early in the Design Process. ASAIO Journal, 2020, 66, 683-690.	0.9	10
978	Deep CO2 removal using high pressure membrane contactors with low liquid-to-gas ratio. Chemical Engineering Research and Design, 2020, 153, 528-536.	2.7	13
979	Selective removal of SO2 from coal-fired flue gas by alkaline solvents using a membrane contactor. Chemical Engineering and Processing: Process Intensification, 2020, 147, 107772.	1.8	13
980	Experimental and modeling study of CO2 absorption by L-Proline promoted potassium carbonate using hollow fiber membrane contactor. International Journal of Greenhouse Gas Control, 2020, 93, 102877.	2.3	19
981	Behaviors of Cellulose-Based Activated Carbon Fiber for Acetaldehyde Adsorption at Low Concentration. Applied Sciences (Switzerland), 2020, 10, 25.	1.3	7
982	Teflon AF2400 Hollow Fiber Membrane Contactor for Dissolved Gas-in-Oil Extraction: Mass Transfer Characteristics. Industrial & Engineering Chemistry Research, 2020, 59, 16795-16804.	1.8	7
983	Characterizing a novel in-situ oxygen delivery device for establishing controlled redox zonation within a high infiltration rate sequential biofilter. Water Research, 2020, 182, 116039.	5.3	8
984	Membrane chemical exchange for lithium isotope enrichment(II): Multistage cascade process. Fusion Engineering and Design, 2020, 160, 111821.	1.0	10
985	Hollow Fiber Membrane Contactors for Post-Combustion Carbon Capture: A Review of Modeling Approaches. Membranes, 2020, 10, 382.	1.4	18
986	Titania Membrane Reactor Design, Configuration, and Performance., 2020,, 93-113.		1
987	Enhancement of ozonation efficiency employing dead-end hollow fiber membranes. Environmental Science: Water Research and Technology, 2020, 6, 2619-2627.	1.2	4
988	Theoretical investigations on the effect of absorbent type on carbon dioxide capture in hollow-fiber membrane contactors. PLoS ONE, 2020, 15, e0236367.	1.1	27
989	Surface-porous and hollow poly(lactic acid) (SPH-PLA) and surface-porous and lotus-root-like PLA (SPL-PLA) nanofibres: preparation, quantitative analysis, and modelling. Journal of Nanoparticle Research, 2020, 22, 1.	0.8	3
990	Advancements in thermal induced membrane separation processes., 2020,, 269-295.		0
991	Solid Carbonation <i>via</i> Ultrapermeable PIM-1 Hollow Fiber Membranes for Scalable CO ₂ Utilization. ACS Sustainable Chemistry and Engineering, 2020, 8, 15620-15629.	3.2	3

#	Article	IF	CITATIONS
992	CO2 Desorption Performance from Imidazolium Ionic Liquids by Membrane Vacuum Regeneration Technology. Membranes, 2020, 10, 234.	1.4	11
993	CFD Modeling of CO ₂ Absorption in Membrane Contactors Using Aqueous Solutions of Monoethanolamine–lonic Liquids. Industrial & Engineering Chemistry Research, 2020, 59, 18629-18639.	1.8	10
994	Use of membrane contactors for removing and recovering dissolved methane from anaerobic reactors effluents: state-of-the-art, challenges, and perspectives. Reviews in Environmental Science and Biotechnology, 2020, 19, 673-697.	3.9	22
995	Augmenting CO2 Absorption Flux through a Gas–Liquid Membrane Module by Inserting Carbon-Fiber Spacers. Membranes, 2020, 10, 302.	1.4	3
996	Polymeric membranes for CO2 separation. , 2020, , 311-329.		1
997	Communicationâ€"Effect of Hydrogen Water on Ceria Abrasive Removal in Post-CMP Cleaning. ECS Journal of Solid State Science and Technology, 2020, 9, 044012.	0.9	7
998	TALSPEAK process on hollow fiber renewable liquid membrane apropos to the remedial maneuver of high level nuclear waste. Journal of Hazardous Materials, 2020, 399, 123050.	6.5	7
999	Influences of operating parameters and membrane characteristics on the net energy production in dense, porous, and composite hollow fiber membrane contactors for dissolved biomethane recovery. Journal of Membrane Science, 2020, 610, 118301.	4.1	13
1000	Improving the performance of vacuum membrane distillation using a 3D-printed helical baffle and a superhydrophobic nanocomposite membrane. Separation and Purification Technology, 2020, 248, 117072.	3.9	25
1001	Integrating crystallisation into transmembrane chemical absorption: Process intensification for ammonia separation from anaerobic digestate. Journal of Membrane Science, 2020, 611, 118236.	4.1	19
1002	CO2 capture with room temperature ionic liquids; coupled absorption/desorption and single module absorption in membrane contactor. Chemical Engineering Science, 2020, 223, 115719.	1.9	52
1003	Mass transfer characteristics of a continuously operated hollow-fiber membrane contactor and stripper unit for CO2 capture. International Journal of Greenhouse Gas Control, 2020, 98, 103063.	2.3	18
1004	Reactive CO2 absorption mechanism of a soybean-based (SBB) solvent containing 18 amino acid salts in polyvinylidene fluoride (PVDF) hollow fiber membrane-based gas-liquid membrane contactor. Chemical Engineering Journal, 2020, 399, 125819.	6.6	10
1005	Numerical simulation of CO2 / H2S simultaneous removal from natural gas using potassium carbonate aqueous solution in hollow fiber membrane contactor. Journal of Environmental Chemical Engineering, 2020, 8, 104130.	3.3	24
1006	Computational study on SO2 molecular separation applying novel EMISE ionic liquid and DMA aromatic amine solution inside microporous membranes. Journal of Molecular Liquids, 2020, 313, 113531.	2.3	21
1007	Applicability of Hollow Fiber Strip Dispersion for the Removal of Metal Ions from Aqueous Streams. Journal of the Institution of Engineers (India): Series E, 2020, 101, 91-97.	0.5	8
1008	A modeling study on the effects of pH and partial wetting on the removal of ammonia nitrogen from wastewater by membrane contactors. Journal of Environmental Chemical Engineering, 2020, 8, 104240.	3.3	18
1009	Resource recovery from industrial wastewaters by hydrophobic membrane contactors: A review. Journal of Environmental Chemical Engineering, 2020, 8, 104242.	3.3	43

#	Article	IF	CITATIONS
1010	Post-combustion CO2 capture by coupling [emim] cation based ionic liquids with a membrane contactor; Pseudo-steady-state approach. International Journal of Greenhouse Gas Control, 2020, 99, 103076.	2.3	24
1011	Modelling tyramine extraction from wastewater using a non-dispersive solvent extraction process. Environmental Science and Pollution Research, 2020, 27, 39068-39076.	2.7	32
1013	Effect of different PVDF and additives on the properties of hollow fiber membranes contactors for CO 2 separation. Journal of Applied Polymer Science, 2020, 137, 49013.	1.3	3
1014	Gas Transport Properties of Teflon AF2400/Ceramic Composite Hollow Fiber Membranes in Dissolved-Gas-in-Oil Extraction. Industrial & Engineering Chemistry Research, 2020, 59, 5392-5401.	1.8	9
1015	Recovery of ammonium nitrogen from human urine by an open-loop hollow fiber membrane contactor. Separation and Purification Technology, 2020, 239, 116579.	3.9	32
1016	Preparation and characterization of PVDF-filled MWCNT hollow fiber mixed matrix membranes for gas absorption by Al2O3 nanofluid absorbent via gas–liquid membrane contactor. Chemical Engineering Research and Design, 2020, 156, 478-494.	2.7	24
1018	Microbubble ozonation of the antioxidant butylated hydroxytoluene: Degradation kinetics and toxicity reduction. Environmental Research, 2020, 186, 109496.	3.7	30
1019	Cobalt–Nickel Pertraction Refinery to Process Pregnant Leach Solution from Recycled Spent Catalysts Part 1: Cobalt Extraction from a Binary System. Solvent Extraction and Ion Exchange, 2020, 38, 441-454.	0.8	6
1020	Remarkable catalytic activity of polymeric membranes containing gel-trapped palladium nanoparticles for hydrogenation reactions. Catalysis Today, 2021, 364, 263-269.	2.2	7
1021	Reconciliation of gas to liquid mass transfer in parallel and transverse flow (cross-flow) hollow fiber membrane contactors (HFMC) for CO ₂ absorption. Separation Science and Technology, 2021, 56, 129-140.	1.3	8
1022	Ozone membrane contactors for water and wastewater treatment: A critical review on materials selection, mass transfer and process design. Chemical Engineering Journal, 2021, 413, 127393.	6.6	21
1023	Computational fluid dynamics modeling of ibuprofen removal using a hollow fiber membrane contactor. Environmental Progress and Sustainable Energy, 2021, 40, .	1.3	7
1024	Wetting, Scaling, and Fouling in Membrane Distillation: State-of-the-Art Insights on Fundamental Mechanisms and Mitigation Strategies. ACS ES&T Engineering, 2021, 1, 117-140.	3.7	217
1025	Simultaneous application of vacuum and sweep gas in a polypropylene membrane contactor for the recovery of dissolved methane from water. Journal of Membrane Science, 2021, 617, 118560.	4.1	15
1026	Wetting- and fouling-resistant hollow fiber membranes for dissolved methane recovery from anaerobic wastewater treatment effluents. Journal of Membrane Science, 2021, 617, 118621.	4.1	15
1027	Recent developments in membrane technology for the elimination of ammonia from wastewater: A review. Polymer Bulletin, 2021, 78, 5399-5425.	1.7	16
1028	Study of the operational parameters in the hollow fibre liquid-liquid membrane contactors process for ammonia valorisation as liquid fertiliser. Separation and Purification Technology, 2021, 255, 117768.	3.9	25
1029	Plant-wide assessment of high-pressure membrane contactors in natural gas sweetening – Part I: Model development. Separation and Purification Technology, 2021, 258, 117898.	3.9	2

#	ARTICLE	IF	CITATIONS
1030	Plant-wide assessment of high-pressure membrane contactors in natural gas sweetening – Part II: Process analysis. Separation and Purification Technology, 2021, 258, 117938.	3.9	3
1031	Mathematical Modeling Aspect in Solvent Extraction of Metals. Separation and Purification Reviews, 2021, 50, 74-95.	2.8	7
1032	Solubility of gases in liquids. , 2021, , 479-508.		0
1033	Emerging extraction., 2021,, 219-240.		0
1034	Design and fabrication of hollow fiber membrane modules., 2021,, 225-252.		5
1035	Water scrubbing for biogas upgrading: developments and innovations. , 2021, , 57-71.		2
1036	Efficient reactive blue 19 decolorization by the comparison of ozonation membrane contacting process and Fenton oxidation. RSC Advances, 2021, 11, 17775-17788.	1.7	7
1037	Intensification of CO2 absorption using MDEA-based nanofluid in a hollow fibre membrane contactor. Scientific Reports, 2021, 11, 2649.	1.6	17
1038	Selective Sulfur Dioxide Absorption from Simulated Flue Gas Using Various Aqueous Alkali Solutions in a Polypropylene Hollow Fiber Membrane Contactor: Removal Efficiency and Use of Sulfur Dioxide. International Journal of Environmental Research and Public Health, 2021, 18, 597.	1.2	9
1039	Membrane Contactors for Maximizing Biomethane Recovery in Anaerobic Wastewater Treatments: Recent Efforts and Future Prospect. Applied Sciences (Switzerland), 2021, 11, 1372.	1.3	7
1040	Comparative studies on the separation of endocrine disrupting compounds from aquatic environment by emulsion liquid membrane and hollow fiber supported liquid membrane. International Journal of Chemical Reactor Engineering, 2021, 19, 689-698.	0.6	9
1041	In silico simulation of the liquid phase pressure drop through cylindrical hollowâ€fiber membrane oxygenators using a modified phenomenological model. Asia-Pacific Journal of Chemical Engineering, 2021, 16, e2633.	0.8	1
1042	Regeneration of CO2 absorbent with membrane contactor via pressure swing. Chemical Engineering Research and Design, 2021, 167, 107-115.	2.7	7
1043	Evaluation of potassium glycinate, potassium lysinate, potassium sarcosinate and potassium threonate solutions in CO2 capture using membranes. Arabian Journal of Chemistry, 2021, 14, 102979.	2.3	32
1044	Review of Dissolved CO and H2 Measurement Methods for Syngas Fermentation. Sensors, 2021, 21, 2165.	2.1	6
1045	Air dehumidification using various TEG based nano solvents in hollow fiber membrane contactors. Heat and Mass Transfer, 2021, 57, 1623-1631.	1.2	13
1046	Removing of the Sulfur Compounds by Impregnated Polypropylene Fibers with Silver Nanoparticles-Cellulose Derivatives for Air Odor Correction. Membranes, 2021, 11, 256.	1.4	27
1047	Experimental and numerical investigation of a new hollow fiber-based multi-effect vacuum membrane distillation design. Desalination, 2021, 501, 114908.	4.0	16

#	Article	IF	CITATIONS
1048	Characterization of simultaneous heat, oxygen, and carbon dioxide transfer across a nonporous polydimethylsiloxane (PDMS) hollow fiber membrane. Chemical Engineering Journal Advances, 2021, 6, 100106.	2.4	9
1049	Liquid membranes for separation of metal ions from wastewaters. ChemistrySelect, 2023, 8, 937-982.	0.7	6
1050	Extraction of penicillin-G from pharmaceutical wastewaters via a developed hydrophobic PVDF-HFP hollow fiber membrane contactor and process optimization. Environmental Technology and Innovation, 2021, 22, 101406.	3.0	10
1051	A computational simulation of electromembrane extraction based on Poisson - Nernst - Planck equations. Analytica Chimica Acta, 2021, 1158, 338414.	2.6	12
1052	Gas-liquid membrane contactors for carbon dioxide separation: A review. Chemical Engineering Journal, 2021, 411, 128468.	6.6	79
1053	The Management of Dissolved Oxygen by a Polypropylene Hollow Fiber Membrane Contactor Affects Wine Aging. Molecules, 2021, 26, 3593.	1.7	1
1054	Droplet–Bijel–Droplet Transition in Aqueous Two-Phase Systems Stabilized by Oppositely Charged Nanoparticles: A Simple Pathway to Fabricate Bijels. Langmuir, 2021, 37, 7055-7066.	1.6	7
1055	CO2 Absorption Using Hollow Fiber Membrane Contactors: Introducing pH Swing Absorption (pHSA) to Overcome Purity Limitation. Membranes, 2021, 11, 496.	1.4	7
1056	A comparative method for estimating the membrane mass transfer resistance of a ceramic hollow fiber membrane contactor using a Wettedâ€Wall Column. Journal of Industrial and Engineering Chemistry, 2021, 99, 74-80.	2.9	0
1057	Development of mass and heat transfer coupled model of hollow fiber membrane for salt recovery from brine via osmotic membrane distillation. Environmental Sciences Europe, 2021, 33, .	2.6	7
1058	lonic liquids for microchannel membrane-based absorption heat pumps: Performance comparison and geometry optimization. Energy Conversion and Management, 2021, 239, 114213.	4.4	19
1059	Heat and mass transfer performance comparison of various absorbers/desorbers towards compact and efficient absorption heat pumps. International Journal of Refrigeration, 2021, 127, 203-220.	1.8	26
1060	Separation of lithium and cobalt with N-salicylideneaniline from sulfate solution by hollow fiber membrane contactors. Materials Today: Proceedings, 2022, 49, 958-963.	0.9	1
1061	Performance optimization and comparison towards compact and efficient absorption refrigeration system with conventional and emerging absorbers/desorbers. Energy, 2021, 229, 120669.	4.5	7
1062	Membrane bioreactors for syngas permeation and fermentation. Critical Reviews in Biotechnology, 2022, 42, 856-872.	5.1	16
1063	Energetic, exergetic, economic, and environmental analysis of microchannel membrane-based absorption refrigeration system driven by various energy sources. Energy, 2022, 239, 122193.	4.5	21
1064	Theoretical and practical approach to the dealcoholization of water-ethanol mixtures and red wine by osmotic distillation. Separation and Purification Technology, 2021, 270, 118793.	3.9	15
1065	Computational simulation and modelling of uranium extraction using tributylphosphate through membrane extractor. Scientific Reports, 2021, 11, 17818.	1.6	1

#	ARTICLE	IF	CITATIONS
1066	Conjugated Mass Transfer of CO2 Absorption through Concentric Circular Gas–Liquid Membrane Contactors. Processes, 2021, 9, 1580.	1.3	2
1067	A review of recent trends and emerging perspectives of ionic liquid membranes for CO2 separation. Journal of Environmental Chemical Engineering, 2021, 9, 105860.	3.3	56
1068	Membrane contactors for intensified gas-liquid absorption processes with physical solvents: A critical parametric study. Journal of Membrane Science, 2021, 635, 119377.	4.1	10
1069	Extraction of lithium from Chinese salt-lake brines by membranes: Design and practice. Journal of Membrane Science, 2021, 635, 119441.	4.1	146
1070	Hydrophobic PVDF hollow fiber membrane modified with pulse inductively coupling plasma activation and chloroalkylsilanes for efficient dye wastewater treatment by ozonation membrane contactor. Journal of Membrane Science, 2021, 635, 119443.	4.1	13
1071	Integration of a calcium carbonate crystallization process and membrane contactor–based CO2 capture. Separation and Purification Technology, 2021, 274, 119043.	3.9	15
1072	Dynamic modeling and solubility studies of sour gases during sweetening process of natural gas. Journal of Natural Gas Science and Engineering, 2021, 95, 104087.	2.1	13
1073	SiC foam with a hollow skeleton and microporous strut wall used as a membrane contactor for the liquid-liquid extraction of Ce3+ and Pr3+. Journal of Membrane Science, 2021, 637, 119640.	4.1	3
1074	Parametric understanding of vapor transport of hollow fiber membranes for design of a membrane humidifier. Renewable Energy, 2021, 177, 1293-1307.	4.3	13
1075	Technical, economic and environmental feasibility of resource recovery technologies from wastewater. Science of the Total Environment, 2021, 796, 149022.	3.9	45
1076	Proton exchange membrane fuel cell integrated with microchannel membrane-based absorption cooling for hydrogen vehicles. Renewable Energy, 2021, 178, 560-573.	4.3	23
1077	Mining from wastewater: Perspectives and current practices of non-dispersive solvent extraction for metallic compounds valorization. Chemical Engineering Journal, 2021, 425, 130711.	6.6	8
1078	Membranes for separation of alkali/alkaline earth metal ions: A review. Separation and Purification Technology, 2021, 278, 119640.	3.9	22
1079	Membrane distillation. , 2022, , 261-344.		1
1080	Applications of membranes with nanofluids and challenges on industrialization. , 2022, , 385-398.		1
1081	Mass transfer modeling in nanofluids: theoretical basics and model development., 2022,, 247-271.		1
1082	Chemical absorptionâ€"amine absorption/stripping technology for biogas upgrading., 2021,, 29-55.		0
1083	Membraneâ€Supported Liquidâ€Liquid Extraction – Where Do We Stand Today?. ChemBioEng Reviews, 2021, 8, 6-14.	2.6	8

#	Article	IF	Citations
1084	Industrial wastewater treatment by membrane process., 2021,, 341-365.		1
1086	Potentialities of Membrane Operations in Water Treatments. , 2005, , 151-158.		1
1087	Membrane-Assisted Extractive Bioconversions. Advances in Biochemical Engineering/Biotechnology, 2003, 80, 115-148.	0.6	11
1088	Membranes for Desalination. Green Energy and Technology, 2009, , 41-75.	0.4	7
1089	Membrankontaktoren. , 2004, , 495-532.		1
1090	Enhanced ammonia resource recovery from wastewater using a novel flat sheet gas-permeable membrane. Chemical Engineering Journal, 2020, 400, 125338.	6.6	25
1091	Membrane engineering: Latest advancements in gas separation and pre-treatment processes, petrochemical industry and refinery, and future perspectives in emerging applications. Fuel Processing Technology, 2020, 206, 106464.	3.7	108
1092	Ozonation using hollow fiber contactor technology and its perspectives for micropollutants removal in water: A review. Science of the Total Environment, 2020, 729, 138664.	3.9	31
1093	Preparation of a novel dual-layer polyvinylidene fluoride hollow fiber composite membrane with hydrophobic inner layer for carbon dioxide absorption in a membrane contactor. Separation and Purification Technology, 2020, 248, 117045.	3.9	22
1094	Challenges and Opportunities of Superhydrophobic/Superamphiphobic Coatings in Real Applications. RSC Smart Materials, 2016, , 209-243.	0.1	9
1095	A feasibility of coagulation as post-treatment of the anaerobic fluidized bed reactor (AFBR) treating domestic wastewater. Journal of the Korean Society of Water and Wastewater, 2014, 28, 623-634.	0.3	4
1096	Mass Transfer and Fluid Hydrodynamics in Sealed End Hydrophobic Hollow Fiber Membrane Gas-liquid Contactors. Journal of Applied Membrane Science & Technology, 2017, 2, .	0.3	2
1097	Experimental and Theoretical Analyses of Effects of Membrane Properties on CO2 Absorption Performance of a Hollow Fiber Membrane Contactor. Kagaku Kogaku Ronbunshu, 2008, 34, 76-84.	0.1	4
1098	Osmotic membrane distillation with continuous regeneration of stripping solution by natural evaporation. Membrane Water Treatment, 2013, 4, 223-236.	0.5	1
1099	Theoretical Studies on Copper Extraction by means of Polymeric Membrane Contactors. Oriental Journal of Chemistry, 2012, 28, 23-28.	0.1	8
1101	An Experimental Study of Membrane Contactor Modules for Recovering Cyanide through a Gas Membrane Process. Membranes, 2020, 10, 105.	1.4	5
1102	Effect of Non-Solvent Additive on Effectiveness of Polyvinylidene Fluoride Membrane Fabricated With Thermal Induced Phase Separation Method for Carbon Dioxide Absorption. Journal of Chemical Engineering & Process Technology, 2012, 03, .	0.1	6
1103	Simulation of CO ₂ and H ₂ S Removal Using Methanol in Hollow Fiber Membrane Gas Absorber (HFMGA). Advances in Chemical Engineering and Science, 2012, 02, 50-61.	0.2	5

#	Article	IF	Citations
1104	Application of Polymeric Membrane in CO ₂ Capture from Post Combustion. Advances in Chemical Engineering and Science, 2012, 02, 336-341.	0.2	8
1105	Hollow Fiber Supported Liquid Membrane for Separation and Recovery of & amp;lt;sup>152+154Eu and ⁹⁰ Sr from Aqueous Acidic Wastes. American Journal of Analytical Chemistry, 2015, 06, 631-643.	0.3	3
1106	Development of Porous Asymmetric Polyamide–Imide Torlon® Membranes for Physical CO2 Absorption and Separation. Journal of Membrane and Separation Technology, 2014, 3, 224-231.	0.4	1
1107	Carbon Dioxide Removal in a Membrane Contactor – Selection of Absorptive Liquid/Membrane System. International Journal of Chemical Engineering and Applications (IJCEA), 2012, , 391-395.	0.3	3
1108	Membrane Technologies for Decarbonization. Membranes and Membrane Technologies, 2021, 3, 255-273.	0.6	32
1109	Threeâ€dimensional membranes for artificial lungs: Comparison of flowâ€induced hemolysis. Artificial Organs, 2022, 46, 412-426.	1.0	6
1110	Analysis of carbon dioxide transfer rate in the hollow-fiber gas-liquid contactors. Shigen-to-Sozai, 2006, 122, 86-91.	0.1	0
1111	Mass Transfer Efficiency of Membrane Solvent Extraction in Laminar Cocurrent Flow in Concentric Circular-Tube Modules. Journal of Chemical Engineering of Japan, 2008, 41, 254-263.	0.3	0
1112	Hollow Fiber Membrane-Based Separation Technology. , 2008, , 91-140.		1
1113	Membrane Contactors for Gaseous Streams Treatments. , 2008, , 1041-1055.		3
1114	Membrane-Assisted Solvent Extraction for the Recovery of Metallic Pollutants. , 2008, , 1023-1039.		0
1115	Chiral Separations. , 2011, , 834-848.		0
1116	Extracorporeal Blood Oxygenation Devices, Membranes for., 2013,, 1-19.		2
1118	Extracorporeal Blood Oxygenation Devices, Membranes for. , 2016, , 737-755.		0
1119	Field Synergy Analysis of Mass Transfer Characteristics of Vibrating Hollow Fiber Membrane Modules. , 2017, , .		0
1120	Permselective Membranes for Gas Processing Replacing the Conventional Methods. Journal of Chemical Engineering Research Updates, 2017, 3, 31-59.	0.1	0
1121	Various Applications of Ceramic Membranes. , 2017, , 213-236.		0
1122	Various Applications of Ceramic Membranes. , 2017, , 213-236.		0

#	Article	IF	CITATIONS
1124	Membrane Wetting in Membrane Contactor System: A Review. Journal of Applied Membrane Science $\&$ Technology, 2017, 17, .	0.3	1
1125	Reaktoren f $\tilde{A}\frac{1}{4}$ r spezielle technisch-chemische Prozesse: Membranreaktoren. Springer Reference Naturwissenschaften, 2018, , 1-27.	0.2	0
1126	CHAPTER 10. Enzymatic Reactive Absorption and Distillation. RSC Green Chemistry, 2018, , 210-248.	0.0	0
1127	The Evaluation of Dissolved Oxygen Removal Efficiency for Membrane Degassing Process in Ultrapure Water. Daehan Hwan'gyeong Gonghag Hoeji, 2019, 41, 541-553.	0.4	0
1128	Modeling and simulation of the hollow fiber bore size on the CO ₂ absorption in membrane contactor. Chemical Product and Process Modeling, 2020, 15, .	0.5	1
1129	The design of multi-stage open-loop hollow fiber membrane contactor and its application in ammonia capture from hydrolyzed human urine. Water Research, 2021, 207, 117811.	5.3	17
1131	Prospects of nanocomposite membranes for gas separation by membrane contactors. , 2020, , 439-456.		1
1132	Evaluation of an ozone diffusion process using a hollow fiber membrane contactor. Chemical Engineering Research and Design, 2022, 177, 291-303.	2.7	9
1133	Membrankontaktoren., 2007,, 507-547.		0
1134	Computational fluid dynamics analysis of CO 2 absorption intensification in an hollow fiber membrane contactor using SiO 2 and carbon nanotubes nanofluids. Environmental Progress and Sustainable Energy, 0 , , e13777.	1.3	1
1135	Continuous Liquid–Liquid Extraction and in-Situ Membrane Separation of Miscible Liquid Mixtures. Langmuir, 2021, 37, 13595-13601.	1.6	2
1136	Mathematical Modeling of Extraction of Neodymium using Pseudo-emulsion based Hollow Fiber Strip Dispersion (PEHFSD). Journal of Applied Membrane Science & Technology, 2021, 25, 63-79.	0.3	1
1137	Solutions of the mass continuity equation in hollow fibers for fully developed flow with some notes on the Lévêque correlation. Carbon Capture Science & Technology, 2022, 2, 100027.	4.9	0
1138	Predictive modeling and experimental implementation of organic acids in stream recovery by reactive extraction in membrane contactors. Chemical Engineering Journal, 2022, 431, 134067.	6.6	2
1139	Current status and challenges in the heterogeneous catalysis for biodiesel production. Renewable and Sustainable Energy Reviews, 2022, 157, 112012.	8.2	114
1140	Hollow-Fiber Membrane Contactor for Biogas Recovery from Real Anaerobic Membrane Bioreactor Permeate. Membranes, 2022, 12, 112.	1.4	11
1141	Experimental and modeling investigation of ultrafine polyvinylidene fluoride hollow fiber membrane module for recovery of lactic acid from aqueous solutions. Polymer Engineering and Science, 0, , .	1.5	2
1142	Sustainable chemical and biological technologies for the production of enantiopure added-value molecules in biorefineries., 2022,, 295-335.		1

#	Article	IF	CITATIONS
1143	High cell density submerged membrane photobioreactor (SMPBR) for microalgae cultivation. IOP Conference Series: Earth and Environmental Science, 2022, 963, 012034.	0.2	9
1144	Polymeric hollow fiber membrane oxygenators as artificial lungs: A review. Biochemical Engineering Journal, 2022, 180, 108340.	1.8	26
1145	Extraction kinetics of cobalt and manganese with D2EHPA from lithium-ion battery recyclate. Chemical Engineering Research and Design, 2022, 179, 16-26.	2.7	6
1146	Numerical modeling of wastewater treatment using HOLLOW fiber membrane contactors based on the stiff spring method. South African Journal of Chemical Engineering, 2022, 40, 21-31.	1.2	0
1148	Separation of lanthanum and neodymium in a hollow fiber supported liquid membrane: CFD modelling and experimental validation. Minerals Engineering, 2022, 180, 107472.	1.8	6
1149	Emerging Solvent Regeneration Technologies for CO2 Capture through Offshore Natural Gas Purification Processes. Sustainability, 2022, 14, 4350.	1.6	8
1150	Membrane and Electrochemical Based Technologies for the Decontamination of Exploitable Streams Produced by Thermochemical Processing of Contaminated Biomass. Energies, 2022, 15, 2683.	1.6	2
1151	A review on recent progress in environmental applications of membrane contactor technology. Journal of Environmental Chemical Engineering, 2022, 10, 107631.	3.3	30
1152	Synthesis of dual-functionalized APTES-Bentonite/PVDF mixed-matrix membranes for the efficient separation of CO2/CH4 and CO2/N2. Materials Today Communications, 2022, 31, 103431.	0.9	3
1153	Orientation dependent permeability in asymmetric composite membranes. Journal of Membrane Science, 2022, 652, 120474.	4.1	1
1154	A Systematic Study of Ammonia Recovery from Anaerobic Digestate Using Membrane-Based Separation. Membranes, 2022, 12, 19.	1.4	7
1160	In-stream product recovery of p-coumaric acid heterologously produced: Implementation of a continuous liquid-liquid extraction assisted by hollow fiber membrane contactor. Separation and Purification Technology, 2022, 293, 121083.	3.9	8
1161	Improving the performance of membrane contactors for carbon dioxide stripping from water: Experimental and theoretical analysis. Journal of Membrane Science, 2022, 654, 120552.	4.1	7
1164	Membrane for CO2 separation. , 2022, , 121-159.		1
1165	Time-dependent numerical investigation of 3-hydroxypropionic acid extraction using a microporous membrane contactor. European Physical Journal Plus, 2022, 137, .	1.2	12
1166	Rotation-in-a-Spinneret integrates static mixers inside hollow fiber membranes. Journal of Membrane Science, 2022, 656, 120599.	4.1	7
1167	Modelling and optimization of transverse flow hollow fibre membrane contactors for the recovery of dissolved methane from anaerobic effluents. Separation and Purification Technology, 2022, 293, 121136.	3.9	3
1168	Recent advancements in carbonic anhydrase immobilization and its implementation in CO2 capture technologies: A review. Separation and Purification Technology, 2022, 296, 121299.	3.9	32

#	Article	IF	CITATIONS
1169	State-of-the-Art Organic- and Inorganic-Based Hollow Fiber Membranes in Liquid and Gas Applications: Looking Back and Beyond. Membranes, 2022, 12, 539.	1.4	22
1170	A Rigorous Membrane Gas-Solvent Contactor Model for Flowsheet Simulation of the Carbon Capture Process. Industrial & Engineering Chemistry Research, 2022, 61, 9381-9393.	1.8	4
1171	Experimental Measurement and Modeling Prediction of Mass Transfer in a Hollow Fiber Membrane Contactor Using Tertiary Amine Solutions for CO ₂ Absorption. Industrial & Description of Mass Transfer in a Hollow Fiber Membrane Contactor Using Tertiary Amine Solutions for CO ₂ Absorption. Industrial & Description of Mass Transfer in a Hollow Fiber Membrane Contactor of Mass Transfer in a Hollow Fiber Membrane Contactor of Mass Transfer in a Hollow Fiber Membrane Contactor of Mass Transfer in a Hollow Fiber Membrane Contactor Using Tertiary Amine Solutions for CO _{Solutions for CO_{Solution}}</sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub></sub>	1.8	8
1172	Ultrathin Hydrophobic Inorganic Membranes via Femtosecond Laser Engraving for Efficient and Stable Extraction in a Microseparator. Industrial & Extraction in a Microseparator. Industrial & Engineering Chemistry Research, 2022, 61, 11534-11543.	1.8	4
1173	Modeling and Process Operability Analysis of a Di rectAir Capture System. IFAC-PapersOnLine, 2022, 55, 316-321.	0.5	1
1174	Nondimensional Analysis of a Hollow Fiber Membrane Contactor for Direct Air Capture. Industrial & Samp; Engineering Chemistry Research, 2022, 61, 11964-11976.	1.8	8
1175	Polymeric nanocomposite membranes for gas separation: Performance, applications, restrictions and future perspectives. Case Studies in Thermal Engineering, 2022, 38, 102323.	2.8	6
1176	CFD investigation of CO2 separation from anesthesia gaseous stream applying novel cholinium lysinate amino acid-based ionic liquid inside the gas–liquid membrane contactor. European Physical Journal Plus, 2022, 137, .	1.2	9
1177	A state-of-the-art review on capture and separation of hazardous hydrogen sulfide (H2S): Recent advances, challenges and outlook. Environmental Pollution, 2022, 314, 120219.	3.7	46
1178	Enzymatic membrane reactors and nonconventional solvents. , 2022, , 435-466.		0
1179	Modeling of CO2 absorption into 4-diethylamino-2-butanol solution in a membrane contactor under wetting or non-wetting conditions. Carbon Capture Science & Technology, 2022, 5, 100069.	4.9	7
1180	Progress in absorption of environmental carbon dioxide using nanoparticles and membrane technology. International Journal of Environmental Science and Technology, 0, , .	1.8	2
1181	Carbon Capture from CO2-Rich Natural Gas via Gas-Liquid Membrane Contactors with Aqueous-Amine Solvents: A Review. Gases, 2022, 2, 98-133.	1.0	2
1182	Numerical solutions to the Reactive Graetz Problem for CO2 Capture. Carbon Capture Science & Technology, 2022, 5, 100071.	4.9	1
1183	Application of hollow fibre membrane contactor for ultra purification of 90Sr nitrate solution at bulk scale for 90Sr–90Y generator for societal use. Journal of Radioanalytical and Nuclear Chemistry, 2022, 331, 4625-4634.	0.7	1
1184	Ozone membrane contactor to intensify gas/liquid mass transfer and contaminants of emerging concern oxidation. Journal of Environmental Chemical Engineering, 2022, 10, 108671.	3.3	10
1185	Dynamic Modeling of CO2 Absorption Process Using Hollow-Fiber Membrane Contactor in MEA Solution. Energies, 2022, 15, 7241.	1.6	2
1186	A comprehensive review of membrane-based absorbers/desorbers towards compact and efficient absorption refrigeration systems. Renewable Energy, 2022, 201, 563-593.	4.3	8

#	Article	IF	CITATIONS
1187	Simulation Assessment of Inlet Parameters and Membrane-Surface-Structure Effects on CO2 Absorption Flux in Membrane Contactors. Sustainability, 2022, 14, 14527.	1.6	1
1188	3-D computational fluid dynamics modeling of a hollow fiber membrane contactor ozonation process. Journal of Water Process Engineering, 2023, 51, 103362.	2.6	3
1189	Ammonia removal using thermally induced phase separation PVDF hollow fibre membrane contactors. Separation and Purification Technology, 2023, 307, 122780.	3.9	2
1190	Hydrophobic Modification of Polyetherimide Hollow Fiber Membrane Contactor by 2-(Perfluoroalkyl) Ethanol Coating for Carbon Dioxide Absorption. Journal of Applied Membrane Science & Technology, 2022, 26, 65-76.	0.3	1
1191	Numerical evaluation of the ozonation process in a hollow fibre membrane contactor. Chemical Engineering Research and Design, 2023, 170, 817-823.	2.7	5
1192	Progress in high performance membrane materials and processes for biogas production, upgrading and conversion. Separation and Purification Technology, 2023, 310, 123139.	3.9	6
1193	Perstraction of Heat-Stable Salts from Aqueous Alkanolamine Solutions. Petroleum Chemistry, 0, , .	0.4	3
1194	Computational fluid dynamics comparison of prevalent liquid absorbents for the separation of SO2 acidic pollutant inside a membrane contactor. Scientific Reports, 2023, 13, .	1.6	3
1195	Low-Fouling Plate-and-Frame Ultrafiltration for Juice Clarification: Part 2—Module Design and Application. Sustainability, 2023, 15, 2769.	1.6	2
1196	Helical-Ridge-Membranes from PVDF for enhanced gas–liquid mass transfer. Journal of Membrane Science, 2023, 673, 121471.	4.1	2
1197	Efficient NH3-N recovery from municipal wastewaters via membrane hybrid systems: Nutrient-Energy-Water (NEW) nexus in circular economy. Chemical Engineering Journal, 2023, 465, 142876.	6.6	9
1198	A critical review in recent progress of hollow fiber membrane contactors for efficient CO2 separations. Chemosphere, 2023, 325, 138300.	4.2	13
1199	New facile process evaluation for membrane-based CO2 capture: Apparent selectivity model. Chemical Engineering Journal, 2023, 460, 141624.	6.6	7
1201	The Potential of Membrane Contactors in the Pre-Treatment and Post-Treatment Lines of a Reverse Osmosis Desalination Plant. Separations, 2023, 10, 129.	1.1	0
1202	Passive Ozone Injection through Gas-Permeable Membranes for Advanced <i>In Situ</i> Remediation. ACS ES&T Engineering, 2023, 3, 706-713.	3.7	2
1203	Recent advances and emerging applications of membrane contactors. Chemical Engineering Journal, 2023, 461, 141948.	6.6	13
1204	Ammonia recovery from natural rubber processing wastewater by hollow fiber membrane contactors: Mass transfer in short- and long-term operations and fouling characteristics. Korean Journal of Chemical Engineering, 0, , .	1.2	0
1205	Purification of Biodiesel via Nanofluid using Liquid-Liquid Extraction in a Membrane Contactor. Tikrit Journal of Engineering Science, 2023, 30, 54-65.	0.2	2

#	Article	IF	CITATIONS
1209	Carbon Capture by Amino Acid Materials. , 2023, , .		0
1216	Membrane processes in food and pharmaceutical industries. , 2023, , 469-513.		0
1236	Novel devices for the extraction and recovery of rare-earth metals through recycling of waste. Journal of Material Cycles and Waste Management, 0, , .	1.6	0
1240	1D Modeling of CO2 Absorption Using K2CO3 in a Hollow Fibre Membrane Contactor., 0,,.		0
1243	Carbon dioxide capture by aqueous ammonia with membrane. , 2024, , 133-154.		0
1245	Encapsulated liquid sorbents for sweetening of natural gas. , 2024, , 153-184.		0
1248	Hollow-fiber membranes for natural gas dehydration. , 2024, , 239-267.		0