

Toraj Mohammadi

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379
papers

13,201
citations

62
h-index

91
g-index

392
ext. papers

14,889
ext. citations

5.8
avg, IF

7.29
L-index

#	Paper	IF	Citations
379	Adsorption of divalent heavy metal ions from water using carbon nanotube sheets. <i>Journal of Hazardous Materials</i> , 2011 , 185, 140-7	12.8	548
378	Ceramic membrane performance in microfiltration of oily wastewater. <i>Desalination</i> , 2011 , 265, 222-228	10.3	233
377	Sea water desalination using electrodialysis. <i>Desalination</i> , 2008 , 221, 440-447	10.3	198
376	Permeate flux decline during UF of oily wastewater: Experimental and modeling. <i>Desalination</i> , 2010 , 251, 153-160	10.3	193
375	Modeling of metal ion removal from wastewater by electrodialysis. <i>Separation and Purification Technology</i> , 2005 , 41, 73-82	8.3	164
374	Evaluation of the chemical stability of some membranes in vanadium solution. <i>Journal of Applied Electrochemistry</i> , 1997 , 27, 153-160	2.6	160
373	CFD simulation of natural gas sweetening in a gas/liquid hollow-fiber membrane contactor. <i>Chemical Engineering Journal</i> , 2011 , 168, 1217-1226	14.7	155
372	Cellulose acetate (CA)/polyvinylpyrrolidone (PVP) blend asymmetric membranes: Preparation, morphology and performance. <i>Desalination</i> , 2009 , 249, 850-854	10.3	153
371	Effect of PEG additive and coagulation bath temperature on the morphology, permeability and thermal/chemical stability of asymmetric CA membranes. <i>Desalination</i> , 2010 , 262, 72-78	10.3	150
370	Effect of preparation variables on morphology and pure water permeation flux through asymmetric cellulose acetate membranes. <i>Journal of Membrane Science</i> , 2009 , 326, 627-634	9.6	149
369	Modeling of membrane fouling and flux decline in reverse osmosis during separation of oil in water emulsions. <i>Desalination</i> , 2003 , 157, 369-375	10.3	139
368	Effect of operating parameters on Pb ²⁺ separation from wastewater using electrodialysis. <i>Desalination</i> , 2004 , 167, 379-385	10.3	138
367	Hydrogen separation and purification using crosslinkable PDMS/zeolite A nanoparticles mixed matrix membranes. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 14576-14589	6.7	137
366	Superhydrophilic and underwater superoleophobic membranes - A review of synthesis methods. <i>Progress in Polymer Science</i> , 2019 , 98, 101166	29.6	127
365	Water transport study across commercial ion exchange membranes in the vanadium redox flow battery. <i>Journal of Membrane Science</i> , 1997 , 133, 151-159	9.6	124
364	Preparation of alloyed poly(ether block amide)/poly(ethylene glycol diacrylate) membranes for separation of CO ₂ /H ₂ (syngas application). <i>Journal of Membrane Science</i> , 2014 , 458, 14-26	9.6	123
363	Experimental performance evaluation of polymeric membranes for treatment of an industrial oily wastewater. <i>Desalination</i> , 2010 , 262, 235-242	10.3	123

362	Performance study of mullite and mullite/alumina ceramic MF membranes for oily wastewaters treatment. <i>Desalination</i> , 2010 , 259, 169-178	10.3	120
361	Pervaporation of dilute alcoholic mixtures using PDMS membrane. <i>Chemical Engineering Science</i> , 2005 , 60, 1875-1880	4.4	113
360	High-salinity water desalination using VMD. <i>Chemical Engineering Journal</i> , 2009 , 149, 191-195	14.7	110
359	Gas transport properties of reverse-selective poly(ether-b-amide6)/[Emim][BF4] gel membranes for CO ₂ /light gases separation. <i>Journal of Membrane Science</i> , 2015 , 476, 286-302	9.6	105
358	CFD simulation of water removal from water/ethylene glycol mixtures by pervaporation. <i>Chemical Engineering Journal</i> , 2011 , 168, 60-67	14.7	101
357	Ionic liquid-modified Pebax 1657 membrane filled by ZIF-8 particles for separation of CO ₂ from CH ₄ , N ₂ and H ₂ . <i>Journal of Membrane Science</i> , 2017 , 524, 652-662	9.6	100
356	Synergistic interactions between POSS and fumed silica and their effect on the properties of crosslinked PDMS nanocomposite membranes. <i>RSC Advances</i> , 2015 , 5, 82460-82470	3.7	99
355	Preparation of sulfonated composite membrane for vanadium redox flow battery applications. <i>Journal of Membrane Science</i> , 1995 , 107, 35-45	9.6	98
354	Simulation and determination of optimum conditions of pervaporative dehydration of isopropanol process using synthesized PVA/PTEOS/TEOS nanocomposite membranes by means of expert systems. <i>Journal of Membrane Science</i> , 2011 , 379, 224-232	9.6	97
353	Salty water desalination using carbon nanotube sheets. <i>Desalination</i> , 2010 , 258, 182-186	10.3	96
352	Characterisation of novel composite membrane for redox flow battery applications. <i>Journal of Membrane Science</i> , 1995 , 98, 77-87	9.6	96
351	Treatment of sea water using electrodialysis: Current efficiency evaluation. <i>Desalination</i> , 2009 , 249, 279-285	10.3	95
350	Separation of copper ions by electrodialysis using Taguchi experimental design. <i>Desalination</i> , 2004 , 169, 21-31	10.3	94
349	Investigation of membrane fouling. <i>Desalination</i> , 2003 , 153, 155-160	10.3	94
348	Sorption properties of hydrogen-selective PDMS/zeolite 4A mixed matrix membrane. <i>International Journal of Hydrogen Energy</i> , 2012 , 37, 17275-17284	6.7	93
347	Modification of anion-exchange membranes for vanadium redox flow battery applications. <i>Journal of Power Sources</i> , 1996 , 63, 179-186	8.9	92
346	Separation of lead ions from wastewater using electrodialysis: Comparing mathematical and neural network modeling. <i>Chemical Engineering Journal</i> , 2008 , 144, 431-441	14.7	91
345	Comparison of permeability performance of PEBAX-1074/TiO ₂ , PEBAX-1074/SiO ₂ and PEBAX-1074/Al ₂ O ₃ nanocomposite membranes for CO ₂ /CH ₄ separation. <i>Chemical Engineering Research and Design</i> , 2017 , 117, 177-189	5.5	90

344	Chemical cleaning of ultrafiltration membranes in the milk industry. <i>Desalination</i> , 2007 , 204, 213-218	10.3	89
343	Wastewater treatment of a vegetable oil factory by a hybrid ultrafiltration-activated carbon process. <i>Journal of Membrane Science</i> , 2005 , 254, 129-137	9.6	88
342	Gas permeation through H ₂ -selective mixed matrix membranes: Experimental and neural network modeling. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 1128-1135	6.7	87
341	CO ₂ /CH ₄ separation by high performance co-casted ZIF-8/Pebax 1657/PES mixed matrix membrane. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 31, 562-574	4.6	86
340	Synthesis and characterization of carbon nanotubes/poly vinyl alcohol nanocomposite membranes for dehydration of isopropanol. <i>Journal of Membrane Science</i> , 2011 , 378, 551-561	9.6	84
339	Separation of water in oil emulsions using microfiltration. <i>Desalination</i> , 2005 , 185, 371-382	10.3	84
338	Effective treatment of dye wastewater via positively charged TETA-MWCNT/PES hybrid nanofiltration membranes. <i>Separation and Purification Technology</i> , 2018 , 194, 488-502	8.3	84
337	Gas permeation through a synthesized composite PDMS/PES membrane. <i>Journal of Membrane Science</i> , 2009 , 342, 236-250	9.6	82
336	Effect of production conditions on morphology and permeability of asymmetric cellulose acetate membranes. <i>Desalination</i> , 2009 , 243, 1-7	10.3	82
335	Effects of coagulation bath temperature and polyvinylpyrrolidone content on flat sheet asymmetric polyethersulfone membranes. <i>Polymer Engineering and Science</i> , 2010 , 50, 885-893	2.3	81
334	Effect of operating parameters on pure and mixed gas permeation properties of a synthesized composite PDMS/PA membrane. <i>Journal of Membrane Science</i> , 2009 , 342, 327-340	9.6	74
333	Stability and extraction study of phenolic wastewater treatment by supported liquid membrane using tributyl phosphate and sesame oil as liquid membrane. <i>Chemical Engineering Research and Design</i> , 2014 , 92, 375-383	5.5	73
332	CFD modeling of porous membranes. <i>Desalination</i> , 2008 , 222, 482-488	10.3	73
331	Pervaporation study of ethylene glycol dehydration through synthesized (PVA/PA)/polypropylene mixed matrix composite membranes. <i>Polymer Engineering and Science</i> , 2013 , 53, 1487-1493	2.3	72
330	Water shortage and seawater desalination by electrodialysis. <i>Desalination</i> , 2003 , 158, 267-270	10.3	71
329	Application of Taguchi method in optimization of desalination by vacuum membrane distillation. <i>Desalination</i> , 2009 , 249, 83-89	10.3	70
328	Dimensional analysis of permeation flux for microfiltration of oily wastewaters using mullite ceramic membranes. <i>Desalination</i> , 2010 , 252, 113-119	10.3	70
327	Gas sorption in H ₂ -selective mixed matrix membranes: Experimental and neural network modeling. <i>International Journal of Hydrogen Energy</i> , 2013 , 38, 14035-14041	6.7	68

326	A Novel Chemical Surface Modification for the Fabrication of PEBA/SiO ₂ Nanocomposite Membranes To Separate CO ₂ from Syngas and Natural Gas Streams. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 17476-17486	3.9	68
325	Synthesis and gas transport properties of crosslinked poly(dimethylsiloxane) nanocomposite membranes using octatrimethylsiloxy POSS nanoparticles. <i>Journal of Natural Gas Science and Engineering</i> , 2016 , 30, 10-18	4.6	67
324	Effect of poly(vinyl pyrrolidone) concentration and coagulation bath temperature on the morphology, permeability, and thermal stability of asymmetric cellulose acetate membranes. <i>Journal of Applied Polymer Science</i> , 2009 , 111, 2537-2544	2.9	67
323	Nitrate removal from water using functionalized carbon nanotube sheets. <i>Chemical Engineering Research and Design</i> , 2012 , 90, 1815-1822	5.5	66
322	Neural network modeling of Pb ²⁺ removal from wastewater using electro dialysis. <i>Chemical Engineering and Processing: Process Intensification</i> , 2009 , 48, 1371-1381	3.7	66
321	Performance of PVA/NaA Mixed Matrix Membrane for Removal of Water from Ethylene Glycol Solutions by Pervaporation. <i>Chemical Engineering Communications</i> , 2015 , 202, 316-321	2.2	65
320	Nano-porous membrane process for oily wastewater treatment: Optimization using response surface methodology. <i>Journal of Environmental Chemical Engineering</i> , 2013 , 1, 218-225	6.8	65
319	Use of polyelectrolyte for incorporation of ion-exchange groups in composite membranes for vanadium redox flow battery applications. <i>Journal of Power Sources</i> , 1995 , 56, 91-96	8.9	64
318	Asymmetric polyethersulfone ultrafiltration membranes for oily wastewater treatment: Synthesis, characterization, ANFIS modeling, and performance. <i>Journal of Environmental Chemical Engineering</i> , 2015 , 3, 170-178	6.8	62
317	Synthesis of a new nanocomposite membrane (PEBAX-1074/PEG-400/TiO ₂) in order to separate CO ₂ from CH ₄ . <i>Journal of Natural Gas Science and Engineering</i> , 2017 , 37, 39-51	4.6	61
316	CO ₂ separation performance of poly(ether-b-amide6)/PTMEG blended membranes: Permeation and sorption properties. <i>Chemical Engineering Research and Design</i> , 2015 , 98, 96-106	5.5	60
315	Synthesis and characterization of polyethersulfone membranes. <i>Journal of Polymer Research</i> , 2010 , 17, 363-377	2.7	60
314	Separation of different ions from wastewater at various operating conditions using electro dialysis. <i>Separation and Purification Technology</i> , 2007 , 54, 147-156	8.3	57
313	Separation of ethylene glycol solution by vacuum membrane distillation (VMD). <i>Desalination</i> , 2005 , 181, 35-41	10.3	56
312	Preparation, characterization and fouling analysis of in-air hydrophilic/underwater oleophobic bio-inspired polydopamine coated PES membranes for oily wastewater treatment. <i>Journal of Membrane Science</i> , 2019 , 582, 402-413	9.6	55
311	Preparation and characterization of SAPO-34 [Matrimid] 5218 mixed matrix membranes for CO ₂ /CH ₄ separation. <i>Chemical Engineering Research and Design</i> , 2013 , 91, 1335-1342	5.5	55
310	Acid Gas Permeation Behavior Through Poly(Ester Urethane Urea) Membrane. <i>Industrial & Engineering Chemistry Research</i> , 2008 , 47, 7361-7367	3.9	54
309	CO ₂ and CH ₄ permeation through T-type zeolite membranes: Effect of synthesis parameters and feed pressure. <i>Separation and Purification Technology</i> , 2008 , 61, 317-323	8.3	54

308	Synthesis of a PEBAX-1074/ZnO nanocomposite membrane with improved CO ₂ separation performance. <i>Journal of Energy Chemistry</i> , 2017 , 26, 454-465	12	53
307	One-dimensional graphene for efficient aqueous heavy metal adsorption: Rapid removal of arsenic and mercury ions by graphene oxide nanoribbons (GONRs). <i>Chemosphere</i> , 2020 , 253, 126647	8.4	53
306	Synthesis of MFI zeolite membranes for water desalination. <i>Desalination</i> , 2007 , 206, 547-553	10.3	53
305	Gas permeation, sorption and diffusion through PEBA/SiO ₂ nanocomposite membranes (chemical surface modification of nanoparticles). <i>International Journal of Hydrogen Energy</i> , 2015 , 40, 9723-9732	6.7	52
304	Divalent heavy metal ions removal from contaminated water using positively charged membrane prepared from a new carbon nanomaterial and HPEI. <i>Chemical Engineering Journal</i> , 2020 , 388, 124192	14.7	52
303	Polyethersulfone/polyacrylonitrile blend ultrafiltration membranes with different molecular weight of polyethylene glycol: preparation, morphology and antifouling properties. <i>Polymers for Advanced Technologies</i> , 2012 , 23, 398-407	3.2	52
302	Wastewater treatment using ultrafiltration at a vegetable oil factory. <i>Desalination</i> , 2004 , 166, 329-337	10.3	52
301	Pebax membrane for CO ₂ /CH ₄ separation: Effects of various solvents on morphology and performance. <i>Journal of Applied Polymer Science</i> , 2017 , 134,	2.9	51
300	Transient computational fluid dynamics modeling of pervaporation separation of aromatic/aliphatic hydrocarbon mixtures using polymer composite membrane. <i>Polymer Engineering and Science</i> , 2013 , 53, 1494-1501	2.3	51
299	Effects of Tween 80 concentration as a surfactant additive on morphology and permeability of flat sheet polyethersulfone (PES) membranes. <i>Desalination</i> , 2009 , 249, 837-842	10.3	50
298	Oily wastewater treatment using ultrafiltration. <i>Desalination and Water Treatment</i> , 2009 , 6, 289-298		50
297	Ternary gas permeation through synthesized pdms membranes: Experimental and CFD simulation based on sorption-dependent system using neural network model. <i>Polymer Engineering and Science</i> , 2014 , 54, 215-226	2.3	49
296	Effect of ultrasonic waves on flux enhancement in microfiltration of milk. <i>Journal of Food Engineering</i> , 2012 , 108, 77-86	6	49
295	Mixed matrix membranes of Matrimid 5218 loaded with zeolite 4A for pervaporation separation of water/isopropanol mixtures. <i>Chemical Engineering Research and Design</i> , 2012 , 90, 2353-2363	5.5	49
294	Improved antifouling properties of TiO ₂ /PVDF nanocomposite membranes in UV-coupled ultrafiltration. <i>Journal of Applied Polymer Science</i> , 2015 , 132, n/a-n/a	2.9	48
293	A positively charged composite loose nanofiltration membrane for water purification from heavy metals. <i>Journal of Membrane Science</i> , 2020 , 611, 118205	9.6	48
292	Improvement of permeation performance of polyethersulfone (PES) ultrafiltration membranes via addition of Tween-20. <i>Journal of Applied Polymer Science</i> , 2010 , 115, 504-513	2.9	48
291	Water desalination via novel positively charged hybrid nanofiltration membranes filled with hyperbranched polyethyleneimine modified MWCNT. <i>Journal of Industrial and Engineering Chemistry</i> , 2019 , 69, 127-140	6.3	48

290	Salty water desalination using carbon nanotubes membrane. <i>Chemical Engineering Journal</i> , 2011 , 168, 1064-1072	14.7	47
289	Effects of different carbon precursors on synthesis of multiwall carbon nanotubes: Purification and Functionalization. <i>Applied Surface Science</i> , 2011 , 257, 7359-7367	6.7	47
288	Assessing the Binding Performance of Amyloid-Carbon Membranes toward Heavy Metal Ions. <i>Langmuir</i> , 2019 , 35, 4161-4170	4	46
287	Mass transfer modeling of desalination through an electrodialysis cell. <i>Desalination</i> , 2015 , 359, 41-51	10.3	45
286	Recovery of alcohols from water using polydimethylsiloxane-silica nanocomposite membranes: Characterization and pervaporation performance. <i>Journal of Applied Polymer Science</i> , 2012 , 124, 2871-2882	2.9	44
285	Dehydration of isopropanol by PVA/PTEOS/TEOS nanocomposite membranes. <i>Chemical Engineering Research and Design</i> , 2011 , 89, 148-155	5.5	43
284	Effect of calcination temperature of kaolin as a support for zeolite membranes. <i>Separation and Purification Technology</i> , 2003 , 30, 241-249	8.3	43
283	Synthesis and gas transport performance of MIL-101/Matrimid mixed matrix membranes. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 29, 249-256	6.3	42
282	Innovative layer by layer and continuous growth methods for synthesis of ZIF-8 membrane on porous polymeric support using poly(ether-block-amide) as structure directing agent for gas separation. <i>Microporous and Mesoporous Materials</i> , 2016 , 234, 43-54	5.3	42
281	Experimental investigation and mathematical modeling of CO ₂ sequestration from CO ₂ /CH ₄ gaseous mixture using MEA and TEA aqueous absorbents through polypropylene hollow fiber membrane contactor. <i>Journal of Membrane Science</i> , 2018 , 565, 1-13	9.6	41
280	Hydrothermal synthesis of hydroxy sodalite zeolite membrane: Separation of H ₂ /CH ₄ . <i>Ceramics International</i> , 2014 , 40, 5889-5896	5.1	41
279	Prediction of permeation flux decline during MF of oily wastewater using genetic programming. <i>Chemical Engineering Research and Design</i> , 2012 , 90, 846-853	5.5	41
278	Ternary gas permeation through a synthesized PDMS membrane: Experimental and modeling. <i>Journal of Membrane Science</i> , 2009 , 344, 225-236	9.6	41
277	Novel Poly(vinyl alcohol)/Multiwalled Carbon Nanotube Nanocomposite Membranes for Pervaporation Dehydration of Isopropanol: Poly(sodium 4-styrenesulfonate) as a Functionalization Agent. <i>Industrial & Engineering Chemistry Research</i> , 2014 , 53, 12819-12829	3.9	40
276	High speed spin coating in fabrication of Pebax 1657 based mixed matrix membrane filled with ultra-porous ZIF-8 particles for CO ₂ /CH ₄ separation. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 440-453	2.8	40
275	Oily wastewater treatment using mullite ceramic membrane. <i>Desalination and Water Treatment</i> , 2012 , 37, 21-30		40
274	Permanent hard water softening using carbon nanotube sheets. <i>Desalination</i> , 2011 , 268, 208-213	10.3	40
273	Effect of operating conditions on microfiltration of an oil-water emulsion by a kaolin membrane. <i>Desalination</i> , 2004 , 168, 201-205	10.3	39

272	Modeling and simulation of CO ₂ separation from CO ₂ /CH ₄ gaseous mixture using potassium glycinate, potassium arginate and sodium hydroxide liquid absorbents in the hollow fiber membrane contactor. <i>Journal of Environmental Chemical Engineering</i> , 2018 , 6, 1500-1511	6.8	38
271	C ₃ H ₈ separation from CH ₄ and H ₂ using a synthesized PDMS membrane: Experimental and neural network modeling. <i>Journal of Membrane Science</i> , 2010 , 346, 59-70	9.6	38
270	Mathematical modeling of desalination by electrodialysis. <i>Desalination</i> , 2007 , 206, 538-546	10.3	38
269	The effect of membrane pores wettability on CO ₂ removal from CO ₂ /CH ₄ gaseous mixture using NaOH, MEA and TEA liquid absorbents in hollow fiber membrane contactor. <i>Chinese Journal of Chemical Engineering</i> , 2018 , 26, 1845-1861	3.2	37
268	Preparation of novel cross-linked graphene oxide membrane for desalination applications using (EDC and NHS)-activated graphene oxide and PEI. <i>Desalination</i> , 2019 , 468, 114079	10.3	37
267	Intensification of Europium extraction through a supported liquid membrane using mixture of D2EHPA and Cyanex272 as carrier. <i>Chemical Engineering and Processing: Process Intensification</i> , 2015 , 92, 18-24	3.7	37
266	Separation of Ethylene Glycol/Water Mixtures using NaA Zeolite Membranes. <i>Chemical Engineering and Technology</i> , 2006 , 29, 1340-1346	2	37
265	Effect of amine modification on morphology and performance of poly (ether-block-amide)/fumed silica nanocomposite membranes for CO ₂ /CH ₄ separation. <i>Materials Chemistry and Physics</i> , 2018 , 205, 303-314	4.4	37
264	Simulation of momentum, heat and mass transfer in direct contact membrane distillation: A computational fluid dynamics approach. <i>Journal of Industrial and Engineering Chemistry</i> , 2015 , 21, 1379-1382	6.3	36
263	Effect of operating conditions on pervaporation of methanol/methyl tert-butyl ether mixtures. <i>Chemical Engineering and Processing: Process Intensification</i> , 2008 , 47, 1069-1074	3.7	36
262	High Loaded Synthetic Hazardous Wastewater Treatment Using Lab-Scale Submerged Ceramic Membrane Bioreactor. <i>Periodica Polytechnica: Chemical Engineering</i> , 2018 , 62, 299-304	1.3	35
261	Investigation of hydrothermal synthesis parameters on characteristics of T type zeolite crystal structure. <i>Powder Technology</i> , 2011 , 206, 345-352	5.2	35
260	Separation of monovalent, divalent and trivalent ions from wastewater at various operating conditions using electrodialysis. <i>Desalination</i> , 2007 , 205, 53-61	10.3	35
259	Effect of synthesis parameters on single gas permeation through T-type zeolite membranes. <i>International Journal of Greenhouse Gas Control</i> , 2008 , 2, 531-538	4.2	35
258	Dehydration of water/1-1-dimethylhydrazine mixtures by zeolite membranes. <i>Microporous and Mesoporous Materials</i> , 2004 , 70, 127-134	5.3	35
257	Making zeolite A membrane from kaolin by electrophoresis. <i>Microporous and Mesoporous Materials</i> , 2002 , 56, 81-88	5.3	35
256	Mathematical modeling of mass transfer in multicomponent gas mixture across the synthesized composite polymeric membrane. <i>Journal of Industrial and Engineering Chemistry</i> , 2013 , 19, 870-885	6.3	34
255	Modeling of unsteady-state permeation of gas mixture through a self-synthesized PDMS membranes. <i>Separation and Purification Technology</i> , 2011 , 76, 385-399	8.3	34

254	Novel amine modification of ZIF-8 for improving simultaneous removal of cationic dyes from aqueous solutions using supported liquid membrane. <i>Journal of Molecular Liquids</i> , 2017 , 225, 800-809	6	33
253	Oily wastewater treatment using a hybrid UF/RO system. <i>Desalination and Water Treatment</i> , 2011 , 28, 75-82		33
252	Fabrication optimization of polyethersulfone (PES)/polyvinylpyrrolidone (PVP) nanofiltration membranes using BoxBehnken response surface method. <i>RSC Advances</i> , 2017 , 7, 24995-25008	3.7	32
251	Template free crystallization of zeolite Rho via Hydrothermal synthesis: Effects of synthesis time, synthesis temperature, water content and alkalinity. <i>Ceramics International</i> , 2013 , 39, 7149-7158	5.1	32
250	Synthesis and characterization of poly(ether-block-amide) copolymers/multi-walled carbon nanotube nanocomposite membranes for CO ₂ /CH ₄ separation. <i>Korean Journal of Chemical Engineering</i> , 2017 , 34, 2459-2470	2.8	32
249	Preparation and characterization of a composite PDMS membrane on CA support. <i>Polymers for Advanced Technologies</i> , 2009 , 21, n/a-n/a	3.2	32
248	PVA/PES-amine-functional graphene oxide mixed matrix membranes for CO ₂ /CH ₄ separation: Experimental and modeling. <i>Chemical Engineering Research and Design</i> , 2016 , 109, 647-656	5.5	31
247	Taguchi optimization approach for phenolic wastewater treatment by vacuum membrane distillation. <i>Desalination and Water Treatment</i> , 2014 , 52, 1341-1349		31
246	Effects of poly (allylamine hydrochloride) as a new functionalization agent for preparation of poly vinyl alcohol/multiwalled carbon nanotubes membranes. <i>Journal of Membrane Science</i> , 2013 , 447, 315-324	9.6	31
245	Improved CO ₂ /CH ₄ separation using a nanocomposite ionic liquid gel membrane. <i>Journal of Natural Gas Science and Engineering</i> , 2017 , 46, 275-288	4.6	31
244	Supported liquid membrane incorporated with carbon nanotubes for the extraction of Europium using Cyanex272 as carrier. <i>Chemical Engineering Research and Design</i> , 2015 , 100, 81-88	5.5	31
243	Separation of Hydrogen from Carbon Monoxide Using a Hollow Fiber Polyimide Membrane: Experimental and Simulation. <i>Chemical Engineering and Technology</i> , 2007 , 30, 1418-1425	2	31
242	Hydrodynamic factors affecting flux and fouling during reverse osmosis of seawater. <i>Desalination</i> , 2003 , 151, 239-245	10.3	31
241	Zeolite filled polyimide membranes for dehydration of isopropanol through pervaporation process. <i>Chemical Engineering Research and Design</i> , 2012 , 90, 433-441	5.5	30
240	Modification of ideal MMMs permeation prediction models: Effects of partial pore blockage and polymer chain rigidification. <i>Journal of Membrane Science</i> , 2013 , 427, 399-410	9.6	30
239	Effect of operating parameters on concentration of citric acid using electrodialysis. <i>Journal of Food Engineering</i> , 2007 , 83, 596-604	6	30
238	Mathematical modeling of flux decline in ultrafiltration. <i>Desalination</i> , 2005 , 184, 367-375	10.3	30
237	Bio-film and bio-entrapped hybrid membrane bioreactors in wastewater treatment: Comparison of membrane fouling and removal efficiency. <i>Desalination</i> , 2014 , 337, 16-22	10.3	29

236	Bio-inspired anchoring of amino-functionalized multi-wall carbon nanotubes (N-MWCNTs) onto PES membrane using polydopamine for oily wastewater treatment. <i>Science of the Total Environment</i> , 2020 , 711, 134951	10.2	29
235	Mathematical modeling for the simultaneous absorption of CO ₂ and SO ₂ using MEA in hollow fiber membrane contactors. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017 , 111, 35-45	3.7	28
234	Separation of toluene/n-heptane mixtures experimental, modeling and optimization. <i>Chemical Engineering Journal</i> , 2011 , 173, 11-18	14.7	28
233	Coupling a mathematical and a fuzzy logic-based model for prediction of zinc ions separation from wastewater using electrodialysis. <i>Chemical Engineering Journal</i> , 2009 , 151, 262-274	14.7	28
232	Microfiltration of oily wastewater using PP hydrophobic membrane. <i>Desalination</i> , 2006 , 200, 319-321	10.3	28
231	Ceramic monolith as microfiltration membrane: Preparation, characterization and performance evaluation. <i>Applied Clay Science</i> , 2018 , 161, 456-463	5.2	28
230	Methods for the Preparation of Organic-Inorganic Nanocomposite Polymer Electrolyte Membranes for Fuel Cells 2017 , 311-325		27
229	Dye removal using 4A-zeolite/polyvinyl alcohol mixed matrix membrane adsorbents: preparation, characterization, adsorption, kinetics, and thermodynamics. <i>Research on Chemical Intermediates</i> , 2016 , 42, 5309-5328	2.8	27
228	Copper ions removal from aqueous solutions using acid-chitosan functionalized carbon nanotubes sheets. <i>Desalination and Water Treatment</i> , 2016 , 57, 15384-15396		27
227	Preparation and Oxygen Permeation of La _{0.6} Sr _{0.4} Co _{0.2} Fe _{0.8} O ₃ (LSCF) Perovskite-Type Membranes: Experimental Study and Mathematical Modeling. <i>Industrial & Engineering Chemistry Research</i> , 2012 , 51, 3069-3080	3.9	27
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11	Development of advanced nanocomposite membranes by carbon-based nanomaterials (CNTs and GO) 2020 , 145-162		0
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