

# Toraj Mohammadi

## List of Publications by Year in descending order

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386  
papers

16,638  
citations

11608

70  
h-index

30848

102  
g-index

393  
all docs

393  
docs citations

393  
times ranked

11193  
citing authors

#	ARTICLE	IF	CITATIONS
1	Effect of <i>Zymomonas mobilis</i> and <i>Pichia stipitis</i> presence/absence strategies in a two-stage process on bioethanol production from glucose-xylose mixture. <i>Biomass Conversion and Biorefinery</i> , 2024, 14, 3409-3424.	2.9	3
2	Fabrication of asymmetric cellulose acetate/pluronic F-127 forward osmosis membrane: minimization of internal concentration polarization via control thickness and porosity. <i>Polymer Bulletin</i> , 2022, 79, 569-586.	1.7	9
3	Evaluation of process condition impact on copper and lead ions removal from water using goethite incorporated nanocomposite ultrafiltration adsorptive membranes. <i>Water Science and Technology</i> , 2022, 85, 1053-1064.	1.2	2
4	Development of high-performance thin-film composite FO membrane by tailoring co-deposition of dopamine and m-phenylenediamine for the Caspian seawater desalination. <i>Desalination</i> , 2022, 527, 115577.	4.0	11
5	Reverse and forward osmosis membrane technologies. , 2022, , 275-309.		0
6	Incorporation of amine-grafted halloysite nanotube to electrospun nanofibrous membranes of chitosan/poly (vinyl alcohol) for Cd (II) and Pb(II) removal. <i>Applied Clay Science</i> , 2022, 220, 106460.	2.6	23
7	Functional charcoal based nanomaterial with excellent colloidal property for fabrication of polyethersulfone ultrafiltration membrane with improved flux and fouling resistance. <i>Materials Chemistry and Physics</i> , 2022, 285, 126167.	2.0	9
8	Thin-Film Nanocomposite Forward Osmosis Membranes Prepared on PVC Substrates with Polydopamine Functionalized Zr-Based Metal Organic Frameworks. <i>Industrial &amp; Engineering Chemistry Research</i> , 2022, 61, 7067-7079.	1.8	8
9	Electrospun nanofiber affinity membranes for water treatment applications: A review. <i>Journal of Water Process Engineering</i> , 2022, 47, 102795.	2.6	34
10	Hybrid nanofiltration thin film hollow fiber membranes with adsorptive supports containing bentonite and LDH nanoclays for boron removal. <i>Journal of Membrane Science</i> , 2022, 655, 120576.	4.1	16
11	Graphene-based membranes for membrane distillation applications: A review. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107974.	3.3	19
12	Fabrication of polystyrene (PS)/cyclohexanol-based carbon nanotubes (CNTs) mixed matrix membranes for vacuum membrane distillation application. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 108175.	3.3	5
13	Enhanced performance and fouling resistance of cellulose acetate forward osmosis membrane with the spatial distribution of $\text{TiO}_2$ and $\text{Al}_2\text{O}_3$ nanoparticles. <i>Journal of Chemical Technology and Biotechnology</i> , 2021, 96, 147-162.	1.6	15
14	High flux $\text{PVDF/PVP}$ nanocomposite ultrafiltration membrane incorporated with graphene oxide nanoribbons with improved antifouling properties. <i>Journal of Applied Polymer Science</i> , 2021, 138, 49718.	1.3	48
15	Enhanced dynamic Cu(II) ion removal using hot-pressed chitosan / poly (vinyl alcohol) electrospun nanofibrous affinity membrane (ENAM). <i>Chemical Engineering Research and Design</i> , 2021, 146, 329-337.	2.7	27
16	Synthesis and characterization of novel thin film composite forward osmosis membrane using charcoal-based carbon nanomaterials for desalination application. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104880.	3.3	33
17	Polyvinyl alcohol/polyethersulfone thin-film nanocomposite membranes with carbon nanomaterials incorporated in substrate for water treatment. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 104650.	3.3	54
18	Metal-organic framework/zeolite nanocrystal/polyvinylidene fluoride composite ultrafiltration membranes with flux/antifouling advantages. <i>Materials Chemistry and Physics</i> , 2021, 260, 124128.	2.0	33

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19	<sc>PES</sc> electrospun fibrous membrane for oily wastewater treatment: Fabrication condition optimization using response surface methodology. <i>Polymers for Advanced Technologies</i> , 2021, 32, 886-899.	1.6	3
20	Application of Mg-Al LDH nanoparticles to enhance flux, hydrophilicity and antifouling properties of PVDF ultrafiltration membrane: Experimental and modeling studies. <i>Separation and Purification Technology</i> , 2021, 257, 117931.	3.9	43
21	Membrane Fouling in Desalination. <i>Advances in Science, Technology and Innovation</i> , 2021, , 39-52.	0.2	1
22	Polymer Matrix Composites Materials for Water and Wastewater Treatment Applications. , 2021, , 983-997.		1
23	Effect of halloysite nanotubes incorporation on morphology and CO <sub>2</sub> /CH <sub>4</sub> separation performance of Pebax-based membranes. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 104-113.	1.2	11
24	Superior Pebax-1657/amine-modified halloysite nanotubes mixed matrix membranes to improve the CO <sub>2</sub> /CH <sub>4</sub> separation efficiency. <i>Journal of Applied Polymer Science</i> , 2021, 138, 50749.	1.3	10
25	A novel thin film composite forward osmosis membrane using bio-inspired polydopamine coated polyvinyl chloride substrate: Experimental and computational fluid dynamics modelling. <i>Chemical Engineering Research and Design</i> , 2021, 147, 756-771.	2.7	18
26	Synthesis and characterization of polytetrafluoroethylene/oleic acid-functionalized carbon nanotubes composite membrane for desalination by vacuum membrane distillation. <i>Desalination</i> , 2021, 503, 114931.	4.0	22
27	Reinforced hollow fiber membranes: A comprehensive review. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 122, 284-310.	2.7	36
28	Molecular dynamics simulation for investigating and assessing reaction conditions between carboxylated polyethersulfone and polyethyleneimine. <i>Journal of Applied Polymer Science</i> , 2021, 138, 51304.	1.3	1
29	Fabrication of biodegradable cellulose acetate/MOF-derived porous carbon nanocomposite adsorbent for methylene blue removal from aqueous solutions. <i>Journal of Solid State Chemistry</i> , 2021, 299, 122180.	1.4	28
30	Polyvinylidene Fluoride/Nanoclays (Cloisite 30B and Palygorskite) Mixed Matrix Membranes with Improved Performance and Antifouling Properties. <i>Industrial &amp; Engineering Chemistry Research</i> , 2021, 60, 12078-12091.	1.8	12
31	Fabrication of magnetic field induced mixed matrix membranes containing GO/Fe <sub>3</sub> O <sub>4</sub> nanohybrids with enhanced antifouling properties for wastewater treatment applications. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105675.	3.3	29
32	Novel Plasma Functionalized Graphene Nanoplatelets (GNPs) incorporated in forward osmosis substrate with improved performance and tensile strength. <i>Journal of Environmental Chemical Engineering</i> , 2021, 9, 105708.	3.3	8
33	Preparation and characterization of asymmetric hollow fiber polyvinyl chloride (PVC) membrane for forward osmosis application. <i>Separation and Purification Technology</i> , 2021, 270, 118801.	3.9	23
34	Improving permeability, hydrophilicity and antifouling characteristic of PES hollow fiber UF membrane using carboxylic PES: A promising substrate to fabricate NF layer. <i>Separation and Purification Technology</i> , 2021, 270, 118811.	3.9	28
35	Development of cellulose acetate/metal-organic framework derived porous carbon adsorptive membrane for dye removal applications. <i>Journal of Membrane Science</i> , 2021, 638, 119692.	4.1	37
36	Hybrid Adsorbents for Dye Removal from Wastewater. <i>Environmental Chemistry for A Sustainable World</i> , 2021, , 405-451.	0.3	8

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37	Development of high flux PVDF/modified TNTs membrane with improved properties for desalination by vacuum membrane distillation. Journal of Environmental Chemical Engineering, 2021, 9, 106730.	3.3	9
38	Preparation of PEBAx-1074/modified ZIF-8 nanoparticles mixed matrix membranes for CO <sub>2</sub> removal from natural gas. Separation and Purification Technology, 2020, 231, 115900.	3.9	43
39	Bio-inspired anchoring of amino-functionalized multi-wall carbon nanotubes (N-MWCNTs) onto PES membrane using polydopamine for oily wastewater treatment. Science of the Total Environment, 2020, 711, 134951.	3.9	59
40	Nanomaterials for fouling-resistant RO membranes. , 2020, , 151-184.		1
41	One-Step and Low-Cost Designing of Two-Layered Active-Layer Superhydrophobic Silicalite-1/PDMS Membrane for Simultaneously Achieving Superior Bioethanol Pervaporation and Fouling/Biofouling Resistance. ACS Applied Materials & Interfaces, 2020, 12, 56587-56603.	4.0	16
42	Synthesis of novel thin film composite (TFC) forward osmosis (FO) membranes incorporated with carboxylated carbon nanofibers (CNFs). Journal of Environmental Chemical Engineering, 2020, 8, 104614.	3.3	35
43	Preparation and characterization of poly(vinylidene fluoride) zeolite mixed matrix membranes for lithium ion batteries separator with enhanced performance. Journal of Applied Polymer Science, 2020, 137, 49367.	1.3	12
44	A positively charged composite loose nanofiltration membrane for water purification from heavy metals. Journal of Membrane Science, 2020, 611, 118205.	4.1	102
45	Nanostructured membranes for water treatments. , 2020, , 129-150.		4
46	Numerical simulation of CO <sub>2</sub> / H <sub>2</sub> S 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
47	Optimizing of malachite green extraction from aqueous solutions using hydrophilic and hydrophobic nanoparticles. Journal of Molecular Liquids, 2020, 308, 113014.	2.3	29
48	Carbon nanotubes-polymer nanocomposite membranes for pervaporation. , 2020, , 105-133.		12
49	Preparation of positively charged thin-film nanocomposite membranes based on the reaction between hydrolyzed polyacrylonitrile containing carbon nanomaterials and HPEI for water treatment application. Separation and Purification Technology, 2020, 242, 116826.	3.9	47
50	Polyacrylonitrile-Fe <sub>2</sub> O <sub>3</sub> Hybrid Photocatalytic Composite Adsorbents for Enhanced Dye Removal. Chemical Engineering and Technology, 2020, 43, 1214-1223.	0.9	6
51	Developing novel thin film composite membrane on a permeate spacer backing fabric for forward osmosis. Chemical Engineering Research and Design, 2020, 160, 326-334.	2.7	13
52	High-performance positively charged hollow fiber nanofiltration membranes fabricated via green approach towards polyethyleneimine layer assembly. Separation and Purification Technology, 2020, 251, 117313.	3.9	31
53	Preparation of 13X zeolite powder and membrane: investigation of synthesis parameters impacts using experimental design. Materials Research Express, 2020, 7, 035004.	0.8	12
54	Divalent heavy metal ions removal from contaminated water using positively charged membrane prepared from a new carbon nanomaterial and HPEI. Chemical Engineering Journal, 2020, 388, 124192.	6.6	89

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55	Preparation of a positively charged NF membrane by evaporation deposition and the reaction of PEI on the surface of the C-PES/PES blend UF membrane. <i>Progress in Organic Coatings</i> , 2020, 141, 105570.	1.9	12
56	One-dimensional graphene for efficient aqueous heavy metal adsorption: Rapid removal of arsenic and mercury ions by graphene oxide nanoribbons (GONRs). <i>Chemosphere</i> , 2020, 253, 126647.	4.2	94
57	Sustainable management of saline oily wastewater via forward osmosis using aquaporin membrane. <i>Chemical Engineering Research and Design</i> , 2020, 138, 199-207.	2.7	39
58	Development of advanced nanocomposite membranes by carbon-based nanomaterials (CNTs and GO). , 2020, , 145-162.		3
59	Transport phenomena through nanocomposite membranes. , 2020, , 91-112.		0
60	Effect of surface charge and roughness on ultrafiltration membranes performance and polyelectrolyte nanofiltration layer assembly. <i>Colloids and Surfaces A: Physicochemical and Engineering Aspects</i> , 2019, 580, 123753.	2.3	35
61	Fast, facile and scalable fabrication of novel microporous silicalite-1/PDMS mixed matrix membranes for efficient ethanol separation by pervaporation. <i>Separation and Purification Technology</i> , 2019, 229, 115820.	3.9	23
62	Preparation of novel cross-linked graphene oxide membrane for desalination applications using (EDC) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	4.8	78
63	Superhydrophilic and underwater superoleophobic membranes - A review of synthesis methods. <i>Progress in Polymer Science</i> , 2019, 98, 101166.	11.8	243
64	Multi-phenomenal macroscopic investigation of cross-flow membrane flux in microfiltration of oil-in-water emulsion, experimental & computational. <i>Journal of Water Process Engineering</i> , 2019, 32, 100962.	2.6	15
65	Influence of TiO <sub>2</sub> nanoparticles loading on permeability and antifouling properties of nanocomposite polymeric membranes: experimental and statistical analysis. <i>Journal of Polymer Research</i> , 2019, 26, 1.	1.2	9
66	Assessing biomimetic aquaporin membrane for forward osmosis desalination process: A dataset. <i>Data in Brief</i> , 2019, 26, 104482.	0.5	3
67	A comprehensive comparative study on morphology and pervaporative performance of porous-supported mesoporous zeolitic membranes. <i>Microporous and Mesoporous Materials</i> , 2019, 280, 174-186.	2.2	4
68	Preparation of thin film composite nano-filtration membranes for brackish water softening based on the reaction between functionalized UF membranes and polyethyleneimine. <i>Journal of Membrane Science</i> , 2019, 588, 117207.	4.1	29
69	Kaolinitic clay-based ceramic microfiltration membrane for oily wastewater treatment: Assessment of coagulant addition. <i>Ceramics International</i> , 2019, 45, 17826-17836.	2.3	42
70	Preparation, characterization and fouling analysis of in-air hydrophilic/underwater oleophobic bio-inspired polydopamine coated PES membranes for oily wastewater treatment. <i>Journal of Membrane Science</i> , 2019, 582, 402-413.	4.1	86
71	Empirical modeling coupled with pore blocking for predicting cake formation of electric field effects on oily waste water cross-flow microfiltration. <i>Journal of Membrane Science</i> , 2019, 584, 120-136.	4.1	12
72	Effect of TiO <sub>2</sub> loading on the morphology and CO <sub>2</sub> /CH <sub>4</sub> separation performance of PEBAX-based membranes. <i>Frontiers of Chemical Science and Engineering</i> , 2019, 13, 517-530.	2.3	21

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73	Preparation of 4A zeolite coated polypropylene membrane for lithium-ion batteries separator. Journal of Applied Polymer Science, 2019, 136, 47841.	1.3	24
74	Synthesis and modification of Zeolitic Imidazolate Framework (ZIF-8) nanoparticles as highly efficient adsorbent for H <sub>2</sub> S and CO <sub>2</sub> removal from natural gas. Journal of Environmental Chemical Engineering, 2019, 7, 103058.	3.3	43
75	Barrier, Diffusion, and Transport Properties of Rubber Nanocomposites Containing Carbon Nanofillers. , 2019, , 253-285.		8
76	Assessing the Binding Performance of Amyloid-β Carbon Membranes toward Heavy Metal Ions. Langmuir, 2019, 35, 4161-4170.	1.6	74
77	Water desalination via novel positively charged hybrid nanofiltration membranes filled with hyperbranched polyethyleneimine modified MWCNT. Journal of Industrial and Engineering Chemistry, 2019, 69, 127-140.	2.9	78
78	Hydrous metal oxide incorporated polyacrylonitrile-based nanocomposite membranes for Cu(II) ions removal. Separation and Purification Technology, 2019, 213, 151-161.	3.9	21
79	Application of Colloidal Precipitation Method Using Sodium Polymethacrylate as Dispersant for TiO <sub>2</sub> /PVDF Membrane Preparation and Its Antifouling Properties. Polymer Engineering and Science, 2019, 59, E422.	1.5	10
80	Introducing sorption coefficient through extended UNIQUAC and Flory-Huggins models for improved flux prediction in forward osmosis. Chemical Engineering Science, 2019, 198, 33-42.	1.9	10
81	Selective Removal of H <sub>2</sub> S from Gas Streams with High CO <sub>2</sub> Concentration Using Hollow-Fiber Membrane Contactors. Chemical Engineering and Technology, 2019, 42, 196-208.	0.9	14
82	Synthesis, characterization and performance evaluation of an optimized ceramic membrane with physical separation and photocatalytic degradation capabilities. Ceramics International, 2018, 44, 10281-10292.	2.3	23
83	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
84	The effect of membrane pores wettability on CO <sub>2</sub> removal from CO <sub>2</sub> /CH <sub>4</sub> gaseous mixture using NaOH, MEA and TEA liquid absorbents in hollow fiber membrane contactor. Chinese Journal of Chemical Engineering, 2018, 26, 1845-1861.	1.7	53
85	Modeling and simulation of CO <sub>2</sub> separation from CO <sub>2</sub> /CH <sub>4</sub> gaseous mixture using potassium glycinate, potassium arginate and sodium hydroxide liquid absorbents in the hollow fiber membrane contactor. Journal of Environmental Chemical Engineering, 2018, 6, 1500-1511.	3.3	51
86	Effects of nanofillers on the characteristics and performance of PEBA-based mixed matrix membranes. Reviews in Chemical Engineering, 2018, 34, 797-836.	2.3	29
87	Morphology and performance of poly(vinylidene fluoride) flat sheet membranes: Thermodynamic and kinetic aspects. Journal of Applied Polymer Science, 2018, 135, 46419.	1.3	11
88	Effect of hydrophobic and hydrophilic nanoparticles loaded in D2EHPA/M2EHPA - PTFE supported liquid membrane for simultaneous cationic dyes pertraction. Journal of Environmental Management, 2018, 213, 288-296.	3.8	15
89	Effect of amine modification on morphology and performance of poly (ether-block-amide)/fumed silica nanocomposite membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. Materials Chemistry and Physics, 2018, 205, 303-314.	2.0	58
90	Effective treatment of dye wastewater via positively charged TETA-MWCNT/PES hybrid nanofiltration membranes. Separation and Purification Technology, 2018, 194, 488-502.	3.9	112

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91	Molecular modeling of the gaseous penetrants permeabilities through 4A, DDR and silicalite-1 zeolites incorporated in mixed matrix membranes. <i>Separation Science and Technology</i> , 2018, 53, 910-927.	1.3	3
92	An experimental study for finding the best condition for PHI zeolite synthesis using Taguchi method for gas separation. <i>Chemical Papers</i> , 2018, 72, 1139-1149.	1.0	7
93	Ceramic monolith as microfiltration membrane: Preparation, characterization and performance evaluation. <i>Applied Clay Science</i> , 2018, 161, 456-463.	2.6	38
94	Assessment of a Thermally Modified Cellulose Acetate Forward Osmosis Membrane Using Response Surface Methodology. <i>Chemical Engineering and Technology</i> , 2018, 41, 1706-1715.	0.9	27
95	Experimental investigation and mathematical modeling of CO <sub>2</sub> sequestration from CO <sub>2</sub> /CH <sub>4</sub> gaseous mixture using MEA and TEA aqueous absorbents through polypropylene hollow fiber membrane contactor. <i>Journal of Membrane Science</i> , 2018, 565, 1-13.	4.1	70
96	Separation via Pervaporation Techniques Through Polymeric Membranes. , 2018, , 243-263.		14
97	Wastewaters treatment containing phenol and ammonium using aerobic submerged membrane bioreactor. <i>Chemistry Central Journal</i> , 2018, 12, 79.	2.6	19
98	Experimental investigation of oil-in-water microfiltration assisted by Dielectrophoresis: Operational condition optimization. <i>Chemical Engineering Research and Design</i> , 2018, 137, 421-433.	2.7	14
99	High Loaded Synthetic Hazardous Wastewater Treatment Using Lab-Scale Submerged Ceramic Membrane Bioreactor. <i>Periodica Polytechnica: Chemical Engineering</i> , 2018, 62, 299-304.	0.5	41
100	Synthesis and functionalization of graphene oxide (GO) for salty water desalination as adsorbent. <i>Chemical Engineering Research and Design</i> , 2018, 138, 358-365.	2.7	44
101	Fundamentals and Measurement Techniques for Gas Transport in Polymers. , 2018, , 391-423.		19
102	Chitosan/ZIF-8 Mixed Matrix Membranes for Pervaporation Dehydration of Isopropanol. <i>Chemical Engineering and Technology</i> , 2017, 40, 648-655.	0.9	43
103	CO <sub>2</sub> /CH <sub>4</sub> separation using mixed matrix membrane-based polyurethane incorporated with ZIF-8 nanoparticles. <i>Chemical Papers</i> , 2017, 71, 1839-1853.	1.0	26
104	Application of polyhedral oligomeric silsesquioxane to the stabilization and performance enhancement of poly(4-methyl-2-pentene) nanocomposite membranes for natural gas conditioning. <i>Journal of Applied Polymer Science</i> , 2017, 134, 45158.	1.3	19
105	Sorption, diffusion and pervaporation study of thiophene/ n -heptane mixture through self-support PU/PEG blend membrane. <i>Separation and Purification Technology</i> , 2017, 185, 112-119.	3.9	24
106	Fabrication optimization of polyethersulfone (PES)/polyvinylpyrrolidone (PVP) nanofiltration membranes using Box-Behnken response surface method. <i>RSC Advances</i> , 2017, 7, 24995-25008.	1.7	50
107	Methods for the Preparation of Organic-Inorganic Nanocomposite Polymer Electrolyte Membranes for Fuel Cells. , 2017, , 311-325.		30
108	Synthesis of a PEBA-1074/ZnO nanocomposite membrane with improved CO <sub>2</sub> separation performance. <i>Journal of Energy Chemistry</i> , 2017, 26, 454-465.	7.1	72



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109	A CFD model for prediction of critical electric potential preventing membrane fouling in oily waste water treatment. <i>Journal of Membrane Science</i> , 2017, 539, 320-328.	4.1	12
110	Performance evaluation of a synthesized and characterized Pebax1657/PEG1000/ $\beta$ -Al <sub>2</sub> O <sub>3</sub> membrane for CO <sub>2</sub> /CH <sub>4</sub> separation using response surface methodology. <i>Journal of Polymer Research</i> , 2017, 24, 1.	1.2	27
111	Heat of Sorption of Gases in Glassy Polymers: Prediction via Applying Physical Properties of the Penetrants and Polymers. <i>Journal of Chemical &amp; Engineering Data</i> , 2017, 62, 1433-1439.	1.0	13
112	Optimal conditions of porous ceramic membrane synthesis based on alkali activated blast furnace slag using Taguchi method. <i>Ceramics International</i> , 2017, 43, 14369-14379.	2.3	30
113	Effects of low and high molecular mass PEG incorporation into different types of poly(ether-b-amide) copolymers on the permeation properties of CO <sub>2</sub> and CH <sub>4</sub> . <i>Journal of Polymer Research</i> , 2017, 24, 1.	1.2	32
114	Improved CO <sub>2</sub> /CH <sub>4</sub> separation using a nanocomposite ionic liquid gel membrane. <i>Journal of Natural Gas Science and Engineering</i> , 2017, 46, 275-288.	2.1	44
115	Effective hydrogen purification from methane via polyimide Matrimid® 5218- Deca-dodecyl 3R type zeolite mixed matrix membrane. <i>Energy</i> , 2017, 141, 2100-2107.	4.5	21
116	Synthesis and characterization of poly(ether-block-amide) copolymers/multi-walled carbon nanotube nanocomposite membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 2459-2470.	1.2	43
117	Modified poly(vinyl alcohol)/chitosan blended membranes for isopropanol dehydration via pervaporation: Synthesis optimization and modeling by response surface methodology. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	16
118	High speed spin coating in fabrication of Pebax 1657 based mixed matrix membrane filled with ultra-porous ZIF-8 particles for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Korean Journal of Chemical Engineering</i> , 2017, 34, 440-453.	1.2	43
119	Synthesis of a new nanocomposite membrane (PEBAX-1074/PEG-400/TiO <sub>2</sub> ) in order to separate CO <sub>2</sub> from CH <sub>4</sub> . <i>Journal of Natural Gas Science and Engineering</i> , 2017, 37, 39-51.	2.1	78
120	Pebax membrane for CO <sub>2</sub> /CH <sub>4</sub> separation: Effects of various solvents on morphology and performance. <i>Journal of Applied Polymer Science</i> , 2017, 134, .	1.3	83
121	Comparison of permeability performance of PEBAX-1074/TiO <sub>2</sub> , PEBAX-1074/SiO <sub>2</sub> and PEBAX-1074/Al <sub>2</sub> O <sub>3</sub> nanocomposite membranes for CO <sub>2</sub> /CH <sub>4</sub> separation. <i>Chemical Engineering Research and Design</i> , 2017, 117, 177-189.	2.7	115
122	Novel amine modification of ZIF-8 for improving simultaneous removal of cationic dyes from aqueous solutions using supported liquid membrane. <i>Journal of Molecular Liquids</i> , 2017, 225, 800-809.	2.3	47
123	Mathematical modeling for the simultaneous absorption of CO <sub>2</sub> and SO <sub>2</sub> using MEA in hollow fiber membrane contactors. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 111, 35-45.	1.8	40
124	Facilitated transport of Europium through supported liquid membrane using Cyanex272 as carrier and mass transfer modelling. <i>Canadian Journal of Chemical Engineering</i> , 2017, 95, 524-534.	0.9	7
125	Ionic liquid-modified Pebax® 1657 membrane filled by ZIF-8 particles for separation of CO <sub>2</sub> from CH <sub>4</sub> , N <sub>2</sub> and H <sub>2</sub> . <i>Journal of Membrane Science</i> , 2017, 524, 652-662.	4.1	136
126	Simulation of Carbon Dioxide Removal by Three Amine Mixture of Diethanolamine, Methyl-diethanolamine, and 2-Amino- 2-Methyl-1-Propanol in a Hollow Fiber Membrane Contactor Using Computational Fluid Dynamics. <i>Periodica Polytechnica: Chemical Engineering</i> , 2017, 61, 227-235.	0.5	1



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127	Investigation of H <sub>2</sub> S and CO <sub>2</sub> Removal from Gas Streams Using Hollow Fiber Membrane Gas-liquid Contactors. <i>Chemical and Biochemical Engineering Quarterly</i> , 2017, 31, 139-144.	0.5	9
128	Ceramic membrane synthesis based on alkali activated blast furnace slag for separation of water from ethanol. <i>Ceramics International</i> , 2016, 42, 15568-15574.	2.3	21
129	Mathematical modeling of the gas transport through PEBAX/(nonporous silica) nanocomposite membranes: Development based on Van Amerongen and Van Krevelen relations. <i>Separation and Purification Technology</i> , 2016, 170, 280-293.	3.9	14
130	Cr(VI) ion removal from artificial waste water using supported liquid membrane. <i>Chemical Papers</i> , 2016, 70, .	1.0	14
131	Pertraction of l-lysine by supported liquid membrane using D2EHPA/M2EHPA. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 106, 50-58.	1.8	19
132	Solution diffusion modeling of a composite PVA/fumed silica ceramic supported membrane. <i>Chemical Engineering and Processing: Process Intensification</i> , 2016, 109, 11-19.	1.8	19
133	Innovative layer by layer and continuous growth methods for synthesis of ZIF-8 membrane on porous polymeric support using poly(ether-block-amide) as structure directing agent for gas separation. <i>Microporous and Mesoporous Materials</i> , 2016, 234, 43-54.	2.2	67
134	Microscopic modeling of critical pressure of permeation in oily waste water treatment via membrane filtration. <i>RSC Advances</i> , 2016, 6, 71744-71756.	1.7	27
135	Synthesis and gas transport properties of crosslinked poly(dimethylsiloxane) nanocomposite membranes using octatrimethylsiloxy POSS nanoparticles. <i>Journal of Natural Gas Science and Engineering</i> , 2016, 30, 10-18.	2.1	72
136	CO <sub>2</sub> /CH <sub>4</sub> 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.	2.1	103
137	Preparation of mullite ceramic microfilter membranes using Response surface methodology based on central composite design. <i>Ceramics International</i> , 2016, 42, 8155-8164.	2.3	37
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141	Dye removal using 4A-zeolite/polyvinyl alcohol mixed matrix membrane adsorbents: preparation, characterization, adsorption, kinetics, and thermodynamics. <i>Research on Chemical Intermediates</i> , 2016, 42, 5309-5328.	1.3	37
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152	Synthesis of NaA and NaX Zeolite Membranes by Fumed Silica Via Clear Solution Gel. <i>Separation Science and Technology</i> , 2015, 50, 136-141.	1.3	6
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154	Experimental investigation and modeling of industrial oily wastewater treatment using modified polyethersulfone ultrafiltration hollow fiber membranes. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 1101-1118.	1.2	11
155	Experimental and computational investigation of polyacrylonitrile ultrafiltration membrane for industrial oily wastewater treatment. <i>Korean Journal of Chemical Engineering</i> , 2015, 32, 159-167.	1.2	19
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