Seyed Saeid Hosseini

List of Publications by Citations

47 papers	2,167 citations	23 h-index	46 g-index
49 ext. papers	2,523 ext. citations	5.7 avg, IF	5.25 L-index

#	Paper	IF	Citations
47	The strategies of molecular architecture and modification of polyimide-based membranes for CO2 removal from natural gas: A review. *Progress in Polymer Science*, **2009**, 34, 561-580	29.6	439
46	Hydrogen separation and purification in membranes of miscible polymer blends with interpenetration networks. *Polymer*, **2008**, 49, 1594-1603	3.9	188
45	Carbon membranes from blends of PBI and polyimides for N2/CH4 and CO2/CH4 separation and hydrogen purification. *Journal of Membrane Science*, **2009**, 328, 174-185	9.6	166
44	Enhanced gas separation performance of nanocomposite membranes using MgO nanoparticles. *Journal of Membrane Science*, **2007**, 302, 207-217	9.6	140
43	Alternatives toward proton conductive anhydrous membranes for fuel cells: Heterocyclic protogenic solvents comprising polymer electrolytes. *Progress in Polymer Science*, **2012**, 37, 1265-1291	29.6	132
42	Gas separation membranes developed through integration of polymer blending and dual-layer hollow fiber spinning process for hydrogen and natural gas enrichments. *Journal of Membrane Science*, **2010**, 349, 156-166	9.6	121
41	Recent progress in development of high performance polymeric membranes and materials for metal plating wastewater treatment: A review. *Journal of Water Process Engineering*, **2016**, 9, 78-110	6.7	108
40	Enhancing the properties and gas separation performance of PBI/polyimides blend carbon molecular sieve membranes via optimization of the pyrolysis process. *Separation and Purification Technology*, **2014**, 122, 278-289	8.3	82
39	Tailoring PES nanofiltration membranes through systematic investigations of prominent design, fabrication and operational parameters. *RSC Advances*, **2015**, 5, 49080-49097	3.7	73
38	Significance, evolution and recent advances in adsorption technology, materials and processes for desalination, water softening and salt removal. *Journal of Environmental Management*, **2018**, 215, 324-344	7.9	63
37	Fabrication, tuning and optimization of poly (acrilonitryle) nanofiltration membranes for effective nickel and chromium removal from electroplating wastewater. *Separation and Purification Technology*, **2017**, 187, 46-59	8.3	60
36	Hydrolytic degradation of poly(ethylene terephthalate). *Journal of Applied Polymer Science*, **2007**, 103, 2304-2309	2.9	47
35	Evapoporometry: A novel technique for determining the pore-size distribution of membranes. *Journal of Membrane Science*, **2013**, 438, 153-166	9.6	42
34	A direct contact type ice generator for seawater freezing desalination using LNG cold energy. *Desalination*, **2018**, 435, 293-300	10.3	38
33	Self-assembled polyelectrolyte surfactant nanocomposite membranes for pervaporation separation of MeOH/MTBE. *Journal of Membrane Science*, **2014**, 472, 91-101	9.6	37
32	Fabrication, characterization, and performance evaluation of polyethersulfone/TiO2 nanocomposite ultrafiltration membranes for produced water treatment. *Polymers for Advanced Technologies*, **2018**, 29, 2619-2631	3.2	36
31	Recent progress in developments of membrane materials and modification techniques for high performance helium separation and recovery: A review. *Chemical Engineering and Processing: Process Intensification*, **2017**, 122, 296-318	3.7	35

30	Investigating the effect of dianhydride type and pyrolysis condition on the gas separation performance of membranes derived from blended polyimides through statistical analysis. *Journal of Industrial and Engineering Chemistry*, **2014**, 20, 1061-1070	6.3	34
29	Phenomenological modeling and analysis of gas transport in polyimide membranes for propylene/propane separation. *RSC Advances*, **2015**, 5, 47199-47215	3.7	29
28	Approaches to Suppress CO2-Induced Plasticization of Polyimide Membranes in Gas Separation Applications. *Processes*, **2019**, 7, 51	2.9	26
27	Enhancing removal and recovery of magnesium from aqueous solutions by using modified zeolite and bentonite and process optimization. *Korean Journal of Chemical Engineering*, **2016**, 33, 3529-3540	2.8	26
26	Modeling and optimization of gas transport characteristics of carbon molecular sieve membranes through statistical analysis. *Polymer Engineering and Science*, **2014**, 54, 147-157	2.3	24
25	Simulation and sensitivity analysis of transport in asymmetric hollow fiber membrane permeators for air separation. *RSC Advances*, **2015**, 5, 86359-86370	3.7	23
24	Mathematical Modeling of Natural Gas Separation Using Hollow Fiber Membrane Modules by Application of Finite Element Method through Statistical Analysis. *Chemical Product and Process Modeling*, **2016**, 11, 11-15	1.1	22
23	Transport Properties of Asymmetric Hollow Fiber Membrane Permeators for Practical Applications: Mathematical Modelling for Binary Gas Mixtures. *Canadian Journal of Chemical Engineering*, **2015**, 93, 1275-1287	2.3	21
22	Experimental and modeling investigations towards tailoring cellulose triacetate membranes for high performance helium separation. *Chemical Engineering Research and Design*, **2018**, 137, 194-212	5.5	20
21	Synthesis and fabrication of adsorptive carbon nanoparticles (ACNs)/PDMS mixed matrix membranes for efficient CO2/CH4 and C3H8/CH4 separation. *Separation and Purification Technology*, **2019**, 209, 503-515	8.3	18
20	Gas permeation and separation in asymmetric hollow fiber membrane permeators: Mathematical modeling, sensitivity analysis and optimization. *Korean Journal of Chemical Engineering*, **2016**, 33, 3085-3101	2.8	14
19	Experimental and statistical investigation on fabrication and performance evaluation of structurally tailored PAN nanofiltration membranes for produced water treatment. *Chemical Engineering and Processing: Process Intensification*, **2020**, 147, 107766	3.7	12
18	Mathematical Modeling and Investigation on the Temperature and Pressure Dependency of Permeation and Membrane Separation Performance for Natural gas Treatment. *Chemical Product and Process Modeling*, **2016**, 11, 7-10	1.1	10
17	Development and tuning of Matrimid membrane oxygenators with improved biocompatibility and gas permeance by plasma treatment. *Journal of Applied Polymer Science*, **2020**, 137, 48824	2.9	10
16	Polymeric Membranes for Gas and Vapor Separations **2016**, 89-158		10
15	Intensification and optimization of the characteristics of polyacrylonitrile nanofiltration membranes with improved performance through experimental design and statistical analysis. *Polymer Engineering and Science*, **2020**, 60, 1795-1811	2.3	8
14	Tuning morphology and transport in ultrafiltration membranes derived from polyethersulfone through exploration of dope formulation and characteristics. *Materials Research Express*, **2019**, 6, 125326	1.7	8
13	Insights into the significance of membrane structure and concentration polarization on the performance of gas separation membrane permeators: Mathematical modeling approach. *Journal of Industrial and Engineering Chemistry*, **2018**, 67, 333-346	6.3	7

12	Intensification of O2/N2 separation by novel magnetically aligned carbonyl iron powders /polysulfone magnetic mixed matrix membranes. *Chemical Engineering and Processing: Process Intensification*, **2020**, 150, 107866	3.7	5
11	Emerging nanomaterial incorporated membranes for gas separation and pervaporation towards energetic-efficient applications **2022**, 2, 100015		4
10	Fabrication, tuning and performance analysis of polyacrylonitrile (PAN)-derived microfiltration membranes for bacteria removal from drinking water. *Korean Journal of Chemical Engineering*, **2021** , 38, 32-45	2.8	4
9	Preparation of modified membrane of polyvinylidene fluoride (PVDF) and evaluation of anti-fouling features and high capability in water/oil emulsion separation. *Journal of the Taiwan Institute of Chemical Engineers*, **2021**, 126, 36-49	5.3	4
8	Exploring the characteristics, performance, and modification of Matrimid for development of thin-film composite and thin-film nanocomposite reverse osmosis membranes. *Polymers for Advanced Technologies*, **2020**, 31, 2209	3.2	3
7	Fabrication of modified PVDF membrane in the presence of PVI polymer and evaluation of its performance in the filtration process. *Journal of Industrial and Engineering Chemistry*, **2021**, 106, 411-411	6.3	3
6	Influence of Particle Size on the Performance of Polysulfone Magnetic Membranes for O2/N2 Separation. *Chemical Engineering and Technology*, **2020**, 43, 2437-2446	2	2
5	Polystyrene derivative-blended nanocomposite membranes for pervaporation dehydration of hydrazine. *Korean Journal of Chemical Engineering*, **2021**, 38, 587-603	2.8	2
4	Significance of thermodynamics and rheological characteristics of dope solutions on the morphological evolution of polyethersulfone ultrafiltration membranes. *Polymer Engineering and Science*, **2021**, 61, 742-753	2.3	2
3	Biogas upgrading by adsorption processes: Mathematical modeling, simulation and optimization approach A review. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107483	6.8	2
2	A review on I-III-VI ternary quantum dots for fluorescence detection of heavy metals ions in water: optical properties, synthesis and application.. *RSC Advances*, **2022**, 12, 11216-11232	3.7	2
1	Surfactant-mediated and wet-impregnation approaches for modification of ZIF-8 nanocrystals: Mixed matrix membranes for CO2/CH4 separation. *Microporous and Mesoporous Materials*, **2021**, 329, 111539	5.3	0