Seyed Saeid Hosseini

List of Publications by Year
in descending order

48 papers	2,899 citations	257450 24 h-index	223800 46 g-index
49 all docs	49 docs citations	49 times ranked	2539 citing authors

#	Article	IF	Citations
1	The strategies of molecular architecture and modification of polyimide-based membranes for CO2 removal from natural gasâ€"A review. Progress in Polymer Science, 2009, 34, 561-580.	24.7	516
2	Hydrogen separation and purification in membranes of miscible polymer blends with interpenetration networks. Polymer, 2008, 49, 1594-1603.	3.8	216
3	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.	8.2	210
4	Enhanced gas separation performance of nanocomposite membranes using MgO nanoparticles. Journal of Membrane Science, 2007, 302, 207-217.	8.2	162
5	Alternatives toward proton conductive anhydrous membranes for fuel cells: Heterocyclic protogenic solvents comprising polymer electrolytes. Progress in Polymer Science, 2012, 37, 1265-1291.	24.7	155
6	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.	5.6	143
7	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.	8.2	135
8	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.	7.8	108
9	Enhancing the properties and gas separation performance of PBIâ€"polyimides blend carbon molecular sieve membranes via optimization of the pyrolysis process. Separation and Purification Technology, 2014, 122, 278-289.	7.9	105
10	Tailoring PES nanofiltration membranes through systematic investigations of prominent design, fabrication and operational parameters. RSC Advances, 2015, 5, 49080-49097.	3.6	92
11	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.	7.9	82
12	Hydrolytic degradation of poly(ethylene terephthalate). Journal of Applied Polymer Science, 2007, 103, 2304-2309.	2.6	68
13	A direct contact type ice generator for seawater freezing desalination using LNG cold energy. Desalination, 2018, 435, 293-300.	8.2	65
14	Approaches to Suppress CO2-Induced Plasticization of Polyimide Membranes in Gas Separation Applications. Processes, 2019, 7, 51.	2.8	57
15	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.	3.6	56
16	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	56
17	Evapoporometry: A novel technique for determining the pore-size distribution of membranes. Journal of Membrane Science, 2013, 438, 153-166.	8.2	48
18	Self-assembled polyelectrolyte surfactant nanocomposite membranes for pervaporation separation of MeOH/MTBE. Journal of Membrane Science, 2014, 472, 91-101.	8.2	47

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19	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.	5.8	40
20	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.	2.7	36
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.	7.9	34
22	Phenomenological modeling and analysis of gas transport in polyimide membranes for propylene/propane separation. RSC Advances, 2015, 5, 47199-47215.	3.6	32
23	Emerging nanomaterial incorporated membranes for gas separation and pervaporation towards energetic-efficient applications. , 2022, 2, 100015.		32
24	Simulation and sensitivity analysis of transport in asymmetric hollow fiber membrane permeators for air separation. RSC Advances, 2015, 5, 86359-86370.	3.6	31
25	Modeling and optimization of gas transport characteristics of carbon molecular sieve membranes through statistical analysis. Polymer Engineering and Science, 2014, 54, 147-157.	3.1	29
26	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.	0.9	26
27	Biogas upgrading by adsorption processes: Mathematical modeling, simulation and optimization approach â€“ A review. Journal of Environmental Chemical Engineering, 2022, 10, 107483.	6.7	24
28	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.	3.6	23
29	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.	1.7	22
30	Experimental and modeling investigations towards tailoring cellulose triacetate membranes for high performance helium separation. Chemical Engineering Research and Design, 2018, 137, 194-212.	5.6	22
31	A review on Iâ€“IIIâ€“VI ternary quantum dots for fluorescence detection of heavy metals ions in water: optical properties, synthesis and application. RSC Advances, 2022, 12, 11216-11232.	3.6	21
32	Tuning morphology and transport in ultrafiltration membranes derived from polyethersulfone through exploration of dope formulation and characteristics. Materials Research Express, 2019, 6, 125326.	1.6	19
33	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.	2.7	18
34	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	18
35	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, 2022, 106, 411-428.	5.8	16
36	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.	3.1	15

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37	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.	3.1	15
38	Development and tuning of Matrimid membrane oxygenators with improved biocompatibility and gas permeance by plasma treatment. Journal of Applied Polymer Science, 2020, 137, 48824.	2.6	14
39	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.	0.9	12
40	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.	3.6	12
41	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.	5.8	11
42	Surfactant-mediated and wet-impregnation approaches for modification of ZIF-8 nanocrystals: Mixed matrix membranes for CO2/CH4 separation. Microporous and Mesoporous Materials, 2022, 329, 111539.	4.4	10
43	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.	2.7	9
44	Influence of Particle Size on the Performance of Polysulfone Magnetic Membranes for O₂/N₂ Separation. Chemical Engineering and Technology, 2020, 43, 2437-2446.	1.5	8
45	Polystyrene derivative-blended nanocomposite membranes for pervaporation dehydration of hydrazine. Korean Journal of Chemical Engineering, 2021, 38, 587-603.	2.7	5
46	Exploring the characteristics, performance, and modification of Matrimid for development of thinâ€film composite and thinâ€film nanocomposite reverse osmosis membranes. Polymers for Advanced Technologies, 2020, 31, 2209-2221.	3.2	4
47	Investigations of the characteristics and performance of modified polyethersulfones (PES) as membrane oxygenator. Journal of Polymer Engineering, 2021, 41, 554-564.	1.4	4
48	Enhancing performance of polyacrylonitrile membranes for pervaporation dehydration of ethanol by tailoring morphology and process parameters. Korean Journal of Chemical Engineering, 0, , .	2.7	2