

Seyed Saeid Hosseini

List of Publications by Year in descending order

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48
papers

2,899
citations

257357

24
h-index

223716

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 CO ₂ removal from natural gas—A review. <i>Progress in Polymer Science</i> , 2009, 34, 561-580.	11.8	516
2	Hydrogen separation and purification in membranes of miscible polymer blends with interpenetration networks. <i>Polymer</i> , 2008, 49, 1594-1603.	1.8	216
3	Carbon membranes from blends of PBI and polyimides for N ₂ /CH ₄ and CO ₂ /CH ₄ separation and hydrogen purification. <i>Journal of Membrane Science</i> , 2009, 328, 174-185.	4.1	210
4	Enhanced gas separation performance of nanocomposite membranes using MgO nanoparticles. <i>Journal of Membrane Science</i> , 2007, 302, 207-217.	4.1	162
5	Alternatives toward proton conductive anhydrous membranes for fuel cells: Heterocyclic protogenic solvents comprising polymer electrolytes. <i>Progress in Polymer Science</i> , 2012, 37, 1265-1291.	11.8	155
6	Recent progress in development of high performance polymeric membranes and materials for metal plating wastewater treatment: A review. <i>Journal of Water Process Engineering</i> , 2016, 9, 78-110.	2.6	143
7	Gas separation membranes developed through integration of polymer blending and dual-layer hollow fiber spinning process for hydrogen and natural gas enrichments. <i>Journal of Membrane Science</i> , 2010, 349, 156-166.	4.1	135
8	Significance, evolution and recent advances in adsorption technology, materials and processes for desalination, water softening and salt removal. <i>Journal of Environmental Management</i> , 2018, 215, 324-344.	3.8	108
9	Enhancing the properties and gas separation performance of PBI—polyimides blend carbon molecular sieve membranes via optimization of the pyrolysis process. <i>Separation and Purification Technology</i> , 2014, 122, 278-289.	3.9	105
10	Tailoring PES nanofiltration membranes through systematic investigations of prominent design, fabrication and operational parameters. <i>RSC Advances</i> , 2015, 5, 49080-49097.	1.7	92
11	Fabrication, tuning and optimization of poly (acrylonitrile) nanofiltration membranes for effective nickel and chromium removal from electroplating wastewater. <i>Separation and Purification Technology</i> , 2017, 187, 46-59.	3.9	82
12	Hydrolytic degradation of poly(ethylene terephthalate). <i>Journal of Applied Polymer Science</i> , 2007, 103, 2304-2309.	1.3	68
13	A direct contact type ice generator for seawater freezing desalination using LNG cold energy. <i>Desalination</i> , 2018, 435, 293-300.	4.0	65
14	Approaches to Suppress CO ₂ -Induced Plasticization of Polyimide Membranes in Gas Separation Applications. <i>Processes</i> , 2019, 7, 51.	1.3	57
15	Recent progress in developments of membrane materials and modification techniques for high performance helium separation and recovery: A review. <i>Chemical Engineering and Processing: Process Intensification</i> , 2017, 122, 296-318.	1.8	56
16	Fabrication, characterization, and performance evaluation of polyethersulfone/TiO ₂ nanocomposite ultrafiltration membranes for produced water treatment. <i>Polymers for Advanced Technologies</i> , 2018, 29, 2619-2631.	1.6	56
17	Evaporometry: A novel technique for determining the pore-size distribution of membranes. <i>Journal of Membrane Science</i> , 2013, 438, 153-166.	4.1	48
18	Self-assembled polyelectrolyte surfactant nanocomposite membranes for pervaporation separation of MeOH/MTBE. <i>Journal of Membrane Science</i> , 2014, 472, 91-101.	4.1	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. <i>Journal of Industrial and Engineering Chemistry</i> , 2014, 20, 1061-1070.	2.9	40
20	Enhancing removal and recovery of magnesium from aqueous solutions by using modified zeolite and bentonite and process optimization. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 3529-3540.	1.2	36
21	Synthesis and fabrication of adsorptive carbon nanoparticles (ACNs)/PDMS mixed matrix membranes for efficient CO ₂ /CH ₄ and C ₃ H ₈ /CH ₄ separation. <i>Separation and Purification Technology</i> , 2019, 209, 503-515.	3.9	34
22	Phenomenological modeling and analysis of gas transport in polyimide membranes for propylene/propane separation. <i>RSC Advances</i> , 2015, 5, 47199-47215.	1.7	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. <i>RSC Advances</i> , 2015, 5, 86359-86370.	1.7	31
25	Modeling and optimization of gas transport characteristics of carbon molecular sieve membranes through statistical analysis. <i>Polymer Engineering and Science</i> , 2014, 54, 147-157.	1.5	29
26	Mathematical Modeling of Natural Gas Separation Using Hollow Fiber Membrane Modules by Application of Finite Element Method through Statistical Analysis. <i>Chemical Product and Process Modeling</i> , 2016, 11, 11-15.	0.5	26
27	Biogas upgrading by adsorption processes: Mathematical modeling, simulation and optimization approach – A review. <i>Journal of Environmental Chemical Engineering</i> , 2022, 10, 107483.	3.3	24
28	Experimental and statistical investigation on fabrication and performance evaluation of structurally tailored PAN nanofiltration membranes for produced water treatment. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 147, 107766.	1.8	23
29	Transport Properties of Asymmetric Hollow Fiber Membrane Permeators for Practical Applications: Mathematical Modelling for Binary Gas Mixtures. <i>Canadian Journal of Chemical Engineering</i> , 2015, 93, 1275-1287.	0.9	22
30	Experimental and modeling investigations towards tailoring cellulose triacetate membranes for high performance helium separation. <i>Chemical Engineering Research and Design</i> , 2018, 137, 194-212.	2.7	22
31	A review on III-VI ternary quantum dots for fluorescence detection of heavy metals ions in water: optical properties, synthesis and application. <i>RSC Advances</i> , 2022, 12, 11216-11232.	1.7	21
32	Tuning morphology and transport in ultrafiltration membranes derived from polyethersulfone through exploration of dope formulation and characteristics. <i>Materials Research Express</i> , 2019, 6, 125326.	0.8	19
33	Gas permeation and separation in asymmetric hollow fiber membrane permeators: Mathematical modeling, sensitivity analysis and optimization. <i>Korean Journal of Chemical Engineering</i> , 2016, 33, 3085-3101.	1.2	18
34	Preparation of modified membrane of polyvinylidene fluoride (PVDF) and evaluation of anti-fouling features and high capability in water/oil emulsion separation. <i>Journal of the Taiwan Institute of Chemical Engineers</i> , 2021, 126, 36-49.	2.7	18
35	Fabrication of modified PVDF membrane in the presence of PVI polymer and evaluation of its performance in the filtration process. <i>Journal of Industrial and Engineering Chemistry</i> , 2022, 106, 411-428.	2.9	16
36	Intensification and optimization of the characteristics of polyacrylonitrile nanofiltration membranes with improved performance through experimental design and statistical analysis. <i>Polymer Engineering and Science</i> , 2020, 60, 1795-1811.	1.5	15

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37	Significance of thermodynamics and rheological characteristics of dope solutions on the morphological evolution of polyethersulfone ultrafiltration membranes. <i>Polymer Engineering and Science</i> , 2021, 61, 742-753.	1.5	15
38	Development and tuning of Matrimid membrane oxygenators with improved biocompatibility and gas permeance by plasma treatment. <i>Journal of Applied Polymer Science</i> , 2020, 137, 48824.	1.3	14
39	Mathematical Modeling and Investigation on the Temperature and Pressure Dependency of Permeation and Membrane Separation Performance for Natural gas Treatment. <i>Chemical Product and Process Modeling</i> , 2016, 11, 7-10.	0.5	12
40	Intensification of O ₂ /N ₂ separation by novel magnetically aligned carbonyl iron powders /polysulfone magnetic mixed matrix membranes. <i>Chemical Engineering and Processing: Process Intensification</i> , 2020, 150, 107866.	1.8	12
41	Insights into the significance of membrane structure and concentration polarization on the performance of gas separation membrane permeators: Mathematical modeling approach. <i>Journal of Industrial and Engineering Chemistry</i> , 2018, 67, 333-346.	2.9	11
42	Surfactant-mediated and wet-impregnation approaches for modification of ZIF-8 nanocrystals: Mixed matrix membranes for CO ₂ /CH ₄ separation. <i>Microporous and Mesoporous Materials</i> , 2022, 329, 111539.	2.2	10
43	Fabrication, tuning and performance analysis of polyacrylonitrile (PAN)-derived microfiltration membranes for bacteria removal from drinking water. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 32-45.	1.2	9
44	Influence of Particle Size on the Performance of Polysulfone Magnetic Membranes for O ₂ /N ₂ Separation. <i>Chemical Engineering and Technology</i> , 2020, 43, 2437-2446.	0.9	8
45	Polystyrene derivative-blended nanocomposite membranes for pervaporation dehydration of hydrazine. <i>Korean Journal of Chemical Engineering</i> , 2021, 38, 587-603.	1.2	5
46	Exploring the characteristics, performance, and modification of Matrimid for development of thin-film composite and thin-film nanocomposite reverse osmosis membranes. <i>Polymers for Advanced Technologies</i> , 2020, 31, 2209-2221.	1.6	4
47	Investigations of the characteristics and performance of modified polyethersulfones (PES) as membrane oxygenator. <i>Journal of Polymer Engineering</i> , 2021, 41, 554-564.	0.6	4
48	Enhancing performance of polyacrylonitrile membranes for pervaporation dehydration of ethanol by tailoring morphology and process parameters. <i>Korean Journal of Chemical Engineering</i> , 0, , .	1.2	2