# Seyed Saeid Hosseini

## List of Publications by Year in Descending Order



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|---|---|---|---|
| 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 | Emerging nanomaterial incorporated membranes for gas separation and pervaporation towards energetic-efficient applications **2022**, 2, 100015 | | 4 |
| 46 | Biogas upgrading by adsorption processes: Mathematical modeling, simulation and optimization approach A review. *Journal of Environmental Chemical Engineering*, **2022**, 10, 107483 | 6.8 | 2 |
| 45 | 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 |
| 44 | 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 |
| 43 | 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 |
| 42 | Polystyrene derivative-blended nanocomposite membranes for pervaporation dehydration of hydrazine. *Korean Journal of Chemical Engineering*, **2021**, 38, 587-603 | 2.8 | 2 |
| 41 | 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 |
| 40 | 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 |
| 39 | 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 |
| 38 | 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 |
| 37 | 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 |
| 36 | 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 |
| 35 | 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 |
| 34 | 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 |
| 33 | 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 |
| 32 | Approaches to Suppress CO2-Induced Plasticization of Polyimide Membranes in Gas Separation Applications. *Processes*, **2019**, 7, 51 | 2.9 | 26 |
| 31 | 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 |

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| 30 | 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 |
| 29 | 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 |
| 28 | A direct contact type ice generator for seawater freezing desalination using LNG cold energy. *Desalination*, **2018**, 435, 293-300 | 10.3 | 38 |
| 27 | 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 |
| 26 | 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 |
| 25 | 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 |
| 24 | 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 |
| 23 | 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 |
| 22 | 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 |
| 21 | 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 |
| 20 | 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 |
| 19 | 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 |
| 18 | Polymeric Membranes for Gas and Vapor Separations **2016**, 89-158 | | 10 |
| 17 | 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 |
| 16 | Simulation and sensitivity analysis of transport in asymmetric hollow fiber membrane permeators for air separation. *RSC Advances*, **2015**, 5, 86359-86370 | 3.7 | 23 |
| 15 | 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 |
| 14 | Tailoring PES nanofiltration membranes through systematic investigations of prominent design, fabrication and operational parameters. *RSC Advances*, **2015**, 5, 49080-49097 | 3.7 | 73 |
| 13 | Phenomenological modeling and analysis of gas transport in polyimide membranes for propylene/propane separation. *RSC Advances*, **2015**, 5, 47199-47215 | 3.7 | 29 |

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| 12 | 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 |
| 11 | Self-assembled polyelectrolyte surfactant nanocomposite membranes for pervaporation separation of MeOH/MTBE. *Journal of Membrane Science*, **2014**, 472, 91-101 | 9.6 | 37 |
| 10 | 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 |
| 9 | 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 |
| 8 | Evapoporometry: A novel technique for determining the pore-size distribution of membranes. *Journal of Membrane Science*, **2013**, 438, 153-166 | 9.6 | 42 |
| 7 | 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 |
| 6 | 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 |
| 5 | 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 |
| 4 | 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 |
| 3 | Hydrogen separation and purification in membranes of miscible polymer blends with interpenetration networks. *Polymer*, **2008**, 49, 1594-1603 | 3.9 | 188 |
| 2 | Hydrolytic degradation of poly(ethylene terephthalate). *Journal of Applied Polymer Science*, **2007**, 103, 2304-2309 | 2.9 | 47 |
| 1 | Enhanced gas separation performance of nanocomposite membranes using MgO nanoparticles. *Journal of Membrane Science*, **2007**, 302, 207-217 | 9.6 | 140 |