

Morteza Asghari

Associate Professor of Chemical Engineering

Head of Separation Processes Research Group (SPRG)

1- Personal Details

Name	Morteza Asghari
Birth date	22 Sep. 1979
Nationality	Iranian
Gender	Male, Married
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2- Education Background

Sep. 2003 – Jun. 2008

PhD, Department of Chemical Engineering, *Iran University of Science & Technology*, Tehran-Iran, average 18.33/20.

Major: Chemical Engineering

Dissertation: Fabrication and Characterization of a Bench-scale Zeolitic Membrane to Separate Aqueous Methylamines Mixtures.

Supervisor: Professor Tooraj Mohammadi

Sep. 2001 – Sep. 2003

MSc, Department of Chemical Engineering, *Iran University of Science & Technology*, Tehran-Iran, average 18.33/20.

Major: Chemical Engineering

Thesis: Bench-scale Preparation of Medical-grade Aromatic-free Paraffin (In contract with Tabriz Petrochemical Co.).

Supervisors: Dr. S. Mahdi Alavi (*Iran University of Science & Technology*), Dr. Asghar Hamidi (*University of Tehran*)

Sep. 1997 – Sep. 2001

BSc, Faculty of Engineering, Department of Chemical Engineering, *University of Tehran*, Tehran-Iran, average 14.60/20.

Major: Chemical Engineering

Thesis: Simulation of Natural Gas Sweetening Plant (NGL-1300, South Pars) using PRO/II.

Supervisors: Dr. Hallaj Sani (*University of Tehran*), Dr. Hamid Fallahi (*OIEC, Oil Industry Engineering & Construction Group*)

3- Teaching Experiences

PhD & MSc:

- Multi-component Separation Processes
- Membrane Separation Processes
- Advanced Mass Transfer
- Advanced Chemical Kinetics and Reactor Design
- Advanced Drying Processes
- Design of Experiments (DOE)
- Theories of Boundary Layers
- Transport Phenomena

BSc:

- Heat Transfer
- Mass Transfer
- Unit Operation I and II (Separation Processes)
- Oil & Gas Refinery Processes
- Material & Energy Balances
- Research Methodology
- Computer Application in Chemical Engineering
- Introduction to Chemical Engineering

4- Awards and Distinctions

- Superior *Researcher* in Chemical Engineering, University of Kashan 2017
- Superior *Researcher* in Chemical Engineering, University of Kashan 2013
- Superior *master of education* in Chemical Engineering, University of Kashan 2013
- Superior *Researcher* in Chemical Engineering, University of Kashan 2012
- Ranking Two of 7th National Chem-E-Car Competition, Iran 2012
- Candidate of Fundamental Medallion of The 11th Khwarizmi Young Award, Tehran 2009
- Ranking Three of Inventors in 3rd National Congress of Young Elites, Tehran 2009
- First Ranking of Graduate Ph.D. Students of Chemical Engineering, Iran University of Science & Technology, Tehran 2008
- First Ranking in PhD Entrance Exam, Chemical Engineering, Iran University of Science & Technology, Tehran 2003
- Gaining Ph.D. Scholarship by Iran's Ministry of Science, Research and Technology 2003
- Ranking First of Physics Olympiad among the Iranian Students, Sari, Iran 1996

7- Research Projects

- “*Fabrication and modification of nano-composite membranes based on a copolymer of poly (amide-6- b- ethylene oxide) to improve the separation properties of sour gas and its modeling*”, Sarkhoon and Qeshm Gas Treating Company, NIGC, Iran 2017
- “*Fabrication and characterization of supported poly (amide-6-b-ethylene oxide)-nanoclay composite membrane for CO₂/CH₄ separation*”, Bid Boland Gas Refining Company, NIGC, Iran 2017
- “*Molecular dynamic simulation study for modification of CO₂/CH₄ separation performance via nanocomposite PEBA membrane*”, Parsian Gas Refining Company, NIGC, Iran 2017
- “*Effects of ILs on CO₂/CH₄ separation performance of polymer-inorganic nanocomposite membrane*”, Bid Boland Gas Refining Company, NIGC, Iran 2016

“Applying <i>N</i> -methyl-2-pyrrolidinium hydrogen sulfonate ionic liquid in polyurethane-inorganic nanoparticle mixed matrix membrane to improve gas separation properties of CO ₂ /CH ₄ ”, Parsian Gas Refining Company, NIGC, Iran	2014
“Separation of CO ₂ /CH ₄ using three-phase polyurethane-[H-NMP] [CH ₃ SO ₃]- ZnO nano particle membrane”, Parsian Gas Refining Company, NIGC, Iran	2014
“ANN Simulation of CO ₂ /CH ₄ Separation via Synthetic PEBA-Nanosilica Membranes”, National Iranian Gas Company (NIGC), Iran	2013
“Design & Fabrication of an Engineering-scale PEM Coating System for Fuel Cell Applications”, IR.IRAN Ministry of Defense	2013
“Preparation & Characterization of PEBA-nanozeolite X mixed matrix membrane for CO ₂ /CH ₄ separation”, National Iranian Gas Company (NIGC), Iran	2012
“Design & Fabrication of a Bench-scale Membrane Multi-gas Separation System”, The Vice-Chancellery for research, University of Kashan, Kashan, Iran	2012
“Fabrication of Hollow Fiber Module of Nano-Composite Membranes”, Polymer Division, Research Institute of Petroleum Industry (RIPI), Tehran, Iran	2012
“Acquiring Know-how to Synthesize Polymeric Nano-Composite Membranes”, Polymer Division, Research Institute of Petroleum Industry (RIPI), Tehran, Iran	2012
“Synthesis & Characterization of Mixed-matrix PEBA-Nanozeolites Membranes for CO ₂ Removal from Natural Gas”, Polymer Division, Research Institute of Petroleum Industry (RIPI), Tehran, Iran	2012
“Acquiring Know-how to Prepare Mordenite Membranes”, The Vice-Chancellery for research, University of Kashan, Kashan, Iran	2012
“Acquiring Know-how to Prepare Faujasite Membranes”, The Vice-Chancellery for research, University of Kashan, Kashan, Iran	2012
“An Investigation on Types, Mechanisms and Applications of Solar Desalination Systems”, The Vice-Chancellery for research, University of Kashan, Kashan, Iran	2011
“Design & Fabrication of a Characterization System for Zeolite Membrane via Pervaporation”, The Vice-Chancellery for research, University of Kashan, Kashan, Iran	2011
“Design & Fabrication of a Vertical Dye for Hollow Fiber Polymeric Membranes”, Polymer Division, Research Institute of Petroleum Industry (RIPI), Tehran, Iran	2010
“Design & Fabrication of a Plate & Frame Module Applicable for Natural Gas Sweetening”, Polymer Division, Research Institute of Petroleum Industry (RIPI), Tehran	2010
“Synthesis & Characterization of Hollow Fiber Polymeric Membrane via Solution-spinning for Gas Separation”, Polymer Division, Research Institute of Petroleum Industry (RIPI), Tehran, Iran	2009
“Synthesis & Characterization of Hollow Fiber Polymeric Membrane via Melt-spinning for Gas Separation”, Polymer Division, Research Institute of Petroleum Industry (RIPI), Tehran, Iran	2009
“Synthesis & Operationally Characterization of a Bench-scale Membrane Reactor for Synthesis Gas Production”, National Petrochemical Company – Research & Development, Tehran, Iran	2008

“An Investigation on Types & Mechanisms of Coalescing Filters”, The Vice-Chancellery for research, University of Kashan, Kashan, Iran	2008
“Synthesis & Characterization of a Bench-scale Polymeric Membrane for Separation of LPG from Gas Streams”, Oil Refinery of Shiraz, Shiraz, Iran	2008
“Design & Fabrication of a Multi-purpose Pervaporation Membrane Pilot for Purification of Organic Solvents (500 lit pure solvent per day)”, Industrial Development & Renovation Organization of Iran (IDRO), Tehran, Iran	2008
“Bench Preparation of Zeolitic Membranes”, The Vice-Chancellery for research and Technology, Iran University of Science & Technology, Tehran, Iran	2008
“Preparation of MF/UF Ceramic Membranes”, The Vice-Chancellery for research and Technology, Iran University of Science & Technology, Tehran, Iran	2008
“A Study on Membrane Processes Applications for Separation of Different Mixtures”, The Vice-Chancellery for research and Technology, Iran University of Science & Technology, Tehran, Iran	2007
“Preparation of Zeolitic Membranes”, Industrial Development & Renovation Organization of Iran (IDRO), Tehran, Iran	2007
“A Study on Membrane Processes Applications for Separation of Different Mixtures”, National Iranian Gas Company (NIGC), Tehran, Iran	2007
“A Feasibility Study on LPG Recovery from Low-pressure Gas Streams Using Membrane Technology”, Oil Refinery of Shiraz, Shiraz, Iran	2007
“Bench-scale Preparation of Medical-grade Aromatic-free Paraffin”, Tabriz Petrochemical Co., Tabriz, Iran	2003

7- Publications

Patents (Iranian):

[1] <i>Trilayer PEBA- Zeolite 13X/ PSf/nonwoven PE nanocomposite gas separation membrane</i>	2017
[2] <i>Natural gas sweetening via PEBA-Zeolite X nanocomposite</i>	2017
[3] <i>Molecular Dynamic Simulation Study for Modification and Optimization of Gas Transport and Separation properties of PEBAX Membrane Filled by FAU Zeolite Nanoparticle</i>	2017
[4] <i>PEBA – based mixed matrix membrane with nafion–functionalize zeolite</i>	2017
[5] <i>PU-Cyanated MWCNT Mixed Matrix Membrane for gas permeation</i>	2017
[6] <i>PVDF-Graphene-Matrimid nanocomposite membranes</i>	2017
[7] <i>PSf on nonwoven polyester fabric micropores membrane suitable for next deposition of composite membrane using algorithms L27 Taguchi in Minitab software</i>	2017
[8] <i>PEBA-ZnO nanocomposite membrane for natural gas sweetening</i>	2017
[9] <i>Utilization of carboxylic CNT within PU polymeric matrix for gas separation</i>	2017

[10] <i>Symmetric mixed matrix membrane based on poly-ether-b-amide/nanoclay</i>	2017
[11] <i>PEBA-MOF mixed matrix composite membrane for gas sweetening</i>	2017
[12] <i>Ultra-thin composite membrane poly-ether-b-amide/nanoclay on PAN/PE</i>	2017
[13] <i>Improving Membrane Separation of Asphaltene from Crude Oil Using Metal Oxide Nano Particles</i>	2016
[14] <i>Carbon nanotube-Mixed Carbon Membrane</i>	2016
[15] <i>Tow-phase Polymer-solid Mixed Matrix Membrane of PEBAX/nanoZeolite X</i>	2012
[16] <i>Three-phase Polymer-liquid-solid Mixed Matrix Membrane of PEBAX/PEG/MWNT</i>	2012
[17] <i>Nano-zeolite AlPO₄-5</i>	2012
[18] <i>Carbon Molecular Sieve Membrane (CMSM) with a Composite Structure of Novolac Phenolic Resin an Activated Carbon Powder</i>	2011
[19] <i>Nano-zeolite NiAPO</i>	2011
[20] <i>Nano-zeolite SAPO-5</i>	2011
[21] <i>Pilot-scale Revers Osmosis (RO)/Nanofiltration (NF)/Microfiltration (MF) System</i>	2008
[22] <i>Pilot-scale Pervaporation (PV)/Membrane Distillation (MD) System</i>	2008
[23] <i>Membrane Module for Disk Zeolitic membranes</i>	2008
[24] <i>Flat Membrane Module for Polymeric Sheet membranes</i>	2008
[25] <i>Disk Composite MOR Membrane on α-alumina</i>	2008
[26] <i>Medical-grade Mineral Oil using Catalytic Hydrogenation</i>	2008
[27] <i>Pilot-scale High-pressure and High-temperature Three-phase Reactor</i>	2008
[28] <i>Separation of Isopropanol from water using Composite Membrane of Co-polymer Poly(ether block amid)</i>	2008
[29] <i>Separation of Ethylbutyrate from water using Composite Membrane of Co-polymer Poly (ether block amid)</i>	2008
[30] <i>Disc Composite FAU Membrane on α-alumina</i>	2008
[31] <i>Composite Membrane of Co-polymer Poly (ether block amid) on Polysulfone Support</i>	2008
[32] <i>Micropore Ceramic Mullite Tubes</i>	2007
[33] <i>Faujasite-type Ceramic Membrane on Tubular Mullite Support</i>	2007
[34] <i>Mordenite-type Ceramic Membrane on Tubular Mullite Support</i>	2007
[35] <i>Spherical Nanopore X-type Zeolitic Crystales</i>	2007
[36] <i>Nanopore Mordenite-type Zeolitic Crystales</i>	2007
[37] <i>Nanopore Faujasite-type Zeolitic Crystales</i>	2007

Journal Papers:

- [1] “Molecular Dynamics, Grand Canonical Monte Carlo and Expert Simulations and Modeling of Water–Acetic Acid Pervaporation Using Polyvinyl Alcohol/Tetraethyl Orthosilicates Membrane” 2018
Journal of Molecular Liquids, in press
- [2] “Modeling of CaCl₂ removal by positively charged polysulfone-based nanofiltration membrane using artificial neural network and genetic programming” 2018
Desalination and Water Treatment, in press
- [3] “Comparison of ZnO nanofillers of different shapes on physical, thermal and gas transport properties of PEBA membrane: experimental testing and molecular simulation” 2018
Journal of Chemical Technology & Biotechnology, in press
- [4] “Polyurethane-SAPO-34 mixed matrix membrane for CO₂/CH₄ and CO₂/N₂ separation” 2018
Chinese Journal of Chemical Engineering, in press
- [5] “Effects of operating parameters on sweeping gas membrane distillation process: Numerical simulation of Persian Gulf seawater desalination” 2018
Journal of Water and Environmental Nanotechnology, in press
- [6] “Effect of tiny amount of zinc oxide on morphological and thermal properties of nanocomposite PEBA thin films” 2018
Alexandria Engineering Journal, in press
- [7] “Application of neural networks in membrane separation: a review” 2018
Reviews in Chemical Engineering, in press
- [8] “Supported PEBA-zeolite 13X nano-composite membranes for gas separation: Preparation, characterization and molecular dynamics simulation” 2018
Chemical Engineering Science, 187, pp. 67–78
- [9] “Effects of nanofillers on characteristics and performance of PEBA-based mixed matrix membranes – a review” 2018
Reviews in Chemical Engineering, 34 (6), 1-40
- [10] “Fabrication of an efficient system for Zn ions removal from industrial wastewater based on graphene oxide nanosheets decorated with highly crystalline polyaniline nanofibers (GO-PANI): Experimental and ab initio quantum mechanics approaches” 2018
Chemical Engineering Journal, 337, pp. 385-397
- [11] “Effect of EO functional groups in PEBA-CNT membranes on CO₂/CH₄ mixed gas separation” 2018
Journal of Membrane Science and Research, 4 (1), pp. 34-40
- [12] “Grand Canonical Monte Carlo and Molecular Dynamics Simulations of the Structural Properties, Diffusion and Adsorption of Hydrogen Molecules through Poly(Benzimidazoles)/Nanoparticle Oxides Composites” 2018
International Journal of Hydrogen Energy, 43 (5), pp. 2803-2816
- [13] “Aluminum Oxide Nanoparticles for Highly Efficient Asphaltene Separation from Crude Oil Using Ceramic Membrane Technology” 2017
Oil and Gas Science and Technology, 72 (6), pp. 34-43

- [14] “Gas separation properties of swelled nanocomposite chitosan membranes crosslinked by 3-aminopropyltriethoxysilane” 2017
International Journal of Environmental Science and Technology, 14 (12), pp. 1-10
- [15] “Experimental Investigation and Molecular Simulation of Supported Chitosan-Nano-silica Mixed Matrix Membranes: Effect of Feed Temperature on Ethanol Dehydration via Pervaporation” 2017
Journal of Molecular Liquids, 246, pp. 7-16
- [16] “Effects of ZnO nanoparticle on the gas separation performance of polyurethane mixed matrix membrane” 2017
Membranes, 7 (3), pp. 43-59
- [17] “Effect study of hexagonal mesoporous silica/polyaniline nanocomposite on the structural properties of polysulfone membranes and its heavy metal removal efficiency” 2017
Separation Science and Technology, 52 (10), pp. 1775–1786
- [18] “Molecular Dynamic and Monte Carlo Simulation Studies of the Structural Properties, Diffusion and Adsorption of Poly(amide-6-b-ethylene oxide)/Faujasite Mixed Matrix Membranes” 2017
Journal of Molecular Liquids, 242, pp. 404–415
- [19] “Molecular Dynamics Simulation and Monte Carlo Study of Transport and Structural Properties of PEBA 1657 and 2533 Membranes Modified by Functionalized POSS-PEG Material” 2017
Journal of Molecular Liquids, 241, pp. 646-653
- [20] “Application and Modification of Polysulfone Membranes: A Review” 2017
Reviews in Chemical Engineering, 34 (5), pp. 211–245
- [21] “H₂-selective mixed matrix membranes modeling using ANFIS, PSO-ANFIS, GA-ANFIS” 2017
International Journal of Hydrogen Energy, 42 (22), pp. 15211–15225
- [22] “Enhancement of the mechanical properties of an epoxy composite through inclusion of graphene oxide nanosheets functionalized with silica nanoparticles through one and two steps sol-gel routes” 2017
Progress in Organic Coatings, 111, pp. 1-12
- [23] “Desalination of Kashan City’s Water Using PEBA-Based Nanocomposite Membranes via Pervaporation” 2017
Journal of Water and Environmental Nanotechnology, 2 (2), pp. 96-102
- [24] “Effect of nano zincoxide on gas permeation through mixed matrix poly (amide-6-b-ethylene oxide)-based membranes” 2017
International Journal of Nano Dimension, 8 (1), pp. 31-39
- [25] “A novel fabrication of a high performance SiO₂-graphene oxide (GO) nanohybrids: Characterization of thermal properties of epoxy nanocomposites filled with SiO₂-GO nanohybrids” 2017
Journal of Colloid and Interface Science, 493, pp. 111–122
- [26] “Investigation of Carbon Nanotubes in Mixed Matrix Membranes for Gas Separation: A Review” 2016
ChemBioEng Reviews, 3 (6), pp. 276–298

- [27] “A Review on Chitosan Utilization in Membrane Synthesis” 2016
ChemBioEng Reviews, 3 (3), pp. 134–158
- [28] “A Review on Gas Separation Applications of Supported Ionic Liquid Membranes” 2015
ChemBioEng Reviews, 2 (4), pp. 290–302
- [29] “Persian Gulf Desalination using Air Gap Membrane Distillation: Numerical Simulation and Theoretical Study” 2015
Desalination, 374, pp. 92–100
- [30] “A review on chitin and chitosan polymers: structure, chemistry, solubility, derivatives and applications” 2015
ChemBioEng Reviews, 2 (3), pp. 204–226
- [31] “CO₂/CH₄ Separation through a Novel Commercializable Three-phase PEBA/PEG/NaX Nanocomposite Membrane” 2015
Journal of Industrial and Engineering Chemistry, 23, pp. 238–242
- [32] “Recent progresses in ceramic hollow fiber membranes” 2015
ChemBioEng Reviews, 2 (1), pp. 1–17
- [33] “Effect of Nanozeolite 13X on Thermal and Mechanical Properties of Polyurethane Nanocomposite Thin Films” 2015
International Journal of Nano Dimension, 6(2), pp. 177-181
- [34] “Effect of Polyethyleneglycol on CH₄ permeation through Poly(amide-*b*-ethylene oxide)-based Nanocomposite Membranes” 2014
Applied Surface Science, 318, pp. 218–222
- [35] “Synthesis and characterization of novel nanocomposite Chitosan membranes for Ethanol dehydration” 2014
International Journal of Nano Dimension, 5(5), pp. 441-446
- [36] “Simulating the Membrane Behaviour of Nanocomposites PEBA-X-PEG in Separating Carbon Dioxide from Methane” 2014
Indian Journal of Scientific Research, 2 (1), pp. 267-281
- [37] “Synthesis, Characterization and Photocatalytic Activity of LaMnO₃ Nanoparticles” 2014
Applied Surface Science, 318, pp. 213–217
- [38] “Nano Composite PEBA[®]/PEG Membranes: Effect of MWNT Filler on CO₂/CH₄ Separation” 2014
International Journal of Nano Dimension, 5(3), pp. 247-254
- [39] “CO₂ Permeation through poly(amide-6-*b*-ethylene oxide)-nanosilica Membranes” 2014
Applied Surface Science, 318, pp. 176–179
- [40] “A Visible Light Driven Doped TiO₂ Nanophotocatalyst: Preparation and Characterization” 2014
International Journal of Nano Dimension, 5(4), pp. 329-335
- [41] “A comparative study between modeling and experimental results over Rhodium supported catalyst in dry reforming reaction” 2014
Fuel, 134, pp. 565-572
- [42] “Nano Composite PEBA[®] Membranes: Effect of Zeolite X Filler on CO₂ Permeation” 2014
International Journal of Nano Dimension, 5(1), pp. 83-89
- [43] “Gas – liquid Hollow Fiber Membrane Contactors Technology for Removal of Acid Gases: a Review” 2013
Novel Processes, 40, pp. 36-46

- [44] “*Synthesis and Characterization of Nanocrystalline CoAPO-5: Structural and Morphological Analysis by Alteration on Hydrothermal Parameters*” 2013
International Journal of Nano Dimension, 4(1), pp. 63-68
- [45] “*Modeling the flux decline during protein microfiltration, a comparison between feed-forward back propagation and radial basis function neural networks*” 2013
Separation Science and Technology, 48, pp. 1324–1330
- [46] “*Calculation of the Binary Interaction & Non-Randomness Parameters of the NRTL, NRTL1 & NRTL2 Models Using G.A. for Ternary Ionic Liquid Systems*” 2013
Chemical Engineering Communications, 200, 8, pp. 1102–1120
- [47] “*Fabrication and Characterization of Highly Crystalline Mordenite Membranes on α -Alumina Disks via a Seeded in situ Template-free Hydrothermal Treatment*” 2013
Adsorption, 19, 1, pp. 51–56
- [48] “*Numerical simulation and theoretical study on simultaneously effects of operating parameters in vacuum membrane distillation*” 2013
Desalination, 314, 2, pp. 59–66
- [49] “*Application of G.A. to Parameter Estimation in Liq.-Liq. Phase Equilibrium Models*” 2012
The Journal of Mathematics and Computer Science 5, 1, pp. 60–66
- [50] “*Numerical simulation and theoretical study on simultaneously effects of operating parameters in direct contact membrane distillation*” 2012
Chemical Engineering and Processing 61, pp. 42–50
- [51] “*Application of Genetic Algorithm to the calculation of parameters for NRTL and Two-Suffix Margules models in ternary extraction ionic liquid systems*” 2012
Journal of Industrial and Engineering Chemistry 18, pp. 1715–1720.
- [52] “*Micropore Size Analysis of Activated Carbons Using Nitrogen, Carbon Dioxide and Methane Adsorption Isotherms: Experimental and Theoretical Studies*” 2012
Adsorption Science & Technology 30, 4, pp. 307–316
- [53] “*Effect of temperature on the physical properties of 1-butyl-3-methylimidazolium based ionic liquids with thiocyanate and tetrafluoroborate anions, and 1-hexyl-3-methylimidazolium with tetrafluoroborate and hexafluorophosphate anions*” 2012
The Journal of Chemical Thermodynamics 54, pp. 148–154
- [54] “*Fabrication & characterization of AlPO₄-5 nanozeolites: Effect of hydrothermal temperature & duration*” 2012
Journal of Ceramic Processing Research 13, pp. 56–58
- [55] “*Effect of temperature on the physical properties of 1-butyl-3-methylimidazolium based ionic liquids with thiocyanate and tetrafluoroborate anions, and 1-hexyl-3-methylimidazolium with tetrafluoroborate and hexafluorophosphate anions*” 2012
Canadian Journal on Chemical Engineering & Technology 3, pp. 37–44
- [56] “*Comparison of DA, DS and HK Models in Determination of Pore Size Distribution of Microporous Carbon Adsorbents Using CO₂ Adsorption*” 2011
Petroleum Research 68, pp. 30–41
- [57] “*Nano-sized AlPO₄-5 Crystals: Synthesis & Characterization*” 2011
International Journal of Nano Dimension 2, pp. 145–147
- [58] “*A comparison between semi-theoretical and empirical modeling of cross-flow micro-filtration using ANN*” 2011
Desalination 277, pp. 348–355

- [59] “*Experimental & Theoretical Study on the CH₄ Adsorption by Granular & Microporous Activated Carbon*” 2011
Journal of Petroleum Science and Technology 1, pp. 55–59
- [60] “*Thin-layer template-free polycrystalline layer of mordenite membranes on cylindrical mullite supports*” 2008
Microporous and Mesoporous Materials 114, pp. 148–154
- [61] “*Ion-exchanged zeolite X membranes: synthesis and characterization*” 2008
Membrane Technology, pp. 9–11.
- [62] “*Preparation and characterization of a thin continuous faujasite membrane on tubular porous mullite support*” 2008
Desalination 220, pp. 65–71

8- Referee of:

Journals: Journal of Membrane Science (Impact Factor : 6.035)
 Desalination (Impact Factor : 5.527)
 Journal of the European Ceramic Society (Impact Factor : 3.411)
 Materials Letters (Impact Factor : 2.572)
 Thermochemica Acta (Impact Factor : 2.236)
 Journal of Polymer Research (Impact Factor : 1.969)
 Polymers for Advanced Technologies (Impact Factor : 1.907)
 Journal of Applied Polymer Science (Impact Factor : 1.866)
 Journal of Nanoscience and Nanotechnology (Impact factor: 1.338)
 Water Science and Technology (Impact Factor : 1.212)
 The Korean Journal of Chemical Engineering (Impact Factor : 2.007)
 Desalination and Water Treatment (Impact Factor : 1.631)
 Chemical Engineering Communications (Impact Factor : 0.788)
 Journal of Energy Management (ISC Journal)
 Journal of Petroleum Research (ISC Journal)
 Modeling in Engineering (ISC Journal)
 International Journal of Nano Dimension (ISC Journal)
 Iranian Ceramic Journal (ISC Journal)