Curriculum Vitae

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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E-mail Address	asghari@kashanu.ac.ir
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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

"*CO_2/CH_4 mixture separation using PU-functionalized nanoTiO_2 membrane*", Sarkhoon and Qeshm Gas Treating Company, NIGC, Iran	2018
"Experimental study of temperature effect on CO2/CH4 mixture separation via PEBA-nanofiller membrane", Parsian Gas Refining Company, NIGC, Iran	2018
"*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 CO_2/CH_4 separation*", Bid Boland Gas Refining Company, NIGC, Iran	2017
"Molecular dynamic simulation study for modification of CO_2/CH_4 separation performance via nanocomposite PEBA membrane", Parsian Gas Refining Company, NIGC, Iran	2017
"*Effects of ILs on CO_2/CH_4 separation performance of polymer-inorganic nanocomposite membrane*", Bid Boland Gas Refining Company, NIGC, Iran	2016
"*Applying N-methyl-2-pyrolidiniuom hydrogen solfonate 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_3SO_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 PEBAX-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 PEBAX-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

***Book Chapters*:**

[1] *Electrospun Filters for Oil–Water Separation.* In: Focarete M., Gualandi C., Ramakrishna S. (eds) *Filtering Media by Electrospinning.* ***Springer***, *Cham* 2018

https://doi.org/10.1007/978-3-319-78163-1_7

***Patents* (*Iranian*):**

[1] *Modification of carboxylic carbon nanotubes using cyanate functional group as a filler in the PEBA membranes for natural gas sweeting* 2017

[2] *Trilayer PEBA-Zeolite 13X/PSf/nonwoven PE nanocomposite gas separation membrane* 2017

[3] *Natural gas sweetening via PEBA-Zeolite X nanocomposite* 2017

[4] *Molecular Dynamic Simulation Study for Modification and Optimization of Gas Transport and Separation properties of PEBAX Membrane Filled by FAU Zeolite Nanoparticle* 2017

[5] *PEBA – based mixed matrix membrane with nafion–functionalize zeolite* 2017

[6] *PU-Cyanated MWCNT Mixed Matrix Membrane for gas permeation* 2017

[7] *PVDF-Graphene-Matrimid nanocomposite membranes* 2017

[8] *PSf on nonwoven polyester fabric micropores membrane suitable for next deposition of composite membrane using algorithms L27 Taguchi in Minitab software* 2017

[9] *PEBA-ZnO nanocomposite membrane for natural gas sweetening* 2017

[10] *Utilization of carboxylic CNT within PU polymeric matrix for gas separation* 2017

[11] *Symmetric mixed matrix membrane based on poly-ether-b-amide/nanoclay* 2017

[12] *PEBA-MOF mixed matrix composite membrane for gas sweetening* 2017

[13] *Ultra-thin composite membrane poly-ether-b-amide/nanoclay on PAN/PE* 2017

[14] *Improving Membrane Separation of Asphaltene from Crude Oil Using Metal Oxide Nano Particles* 2016

[15] *Carbon nanotube-Mixed Carbon Membrane* 2016

[16] *Tow-phase Polymer-solid Mixed Matrix Membrane of PEBAX/nanoZeolite X* 2012

[17] *Three-phase Polymer-liquid-solid Mixed Matrix Membrane of PEBAX/PEG/MWNT* 2012

[18] *Nano-zeolite $AlPO_4$-5* 2012

[19] *Carbon Molecular Seive Membrane* (*CMSM*) *with a Composite Structure of Novolac Phenolic Resin an Activated Carbon Powder* 2011

[20] *Nano-zeolite NiAPO* 2011

[21] *Nano-zeolite SAPO-5* 2011

[22] *Pilot-scale Revers Osmosis* (*RO*)/*Nanofilteration* (*NF*)/*Microfiltration* (*MF*) *System* 2008

[23] *Pilot-scale Pervaporation* (*PV*)/*Membrane Distillation* (*MD*) *System* 2008

[24] *Membrane Module for Disk Zeolitic membranes* 2008

[25] *Flat Membrane Module for Polymeric Sheet membranes* 2008

[26] *Disk Composite MOR Membrane on α-alumina* 2008

[27] *Medical-grade Mineral Oil using Catalytic Hydrogenation* 2008

[28] *Pilot-scale High-pressure and High-temperature Three-phase Reactor* 2008

[29] *Separation of Isopropanol from water using Composite Membrane of Co-polymer Poly*(*ether block amid*) 2008

[30] *Separation of Ethylbutyrate from water using Composite Membrane of Co-polymer Poly* (*ether block amid*) 2008

[31] *Disc Composite FAU Membrane on α-alumina* 2008

[32] *Composite Membrane of Co-polymer Poly* (*ether block amid*) *on Polysulfone Support* 2008

[33] *Micropore Ceramic Mullite Tubes* 2007

[34] *Faujasite-type Ceramic Membrane on Tubular Mullite Support* 2007

[35] *Mordenite-type Ceramic Membrane on Tubular Mullite Support* 2007

[36] *Spherical Nanopore X-type Zeolitic Crystales* 2007

[37] *Nanopore Mordenite-type Zeolitic Crystales* 2007

[38] *Nanopore Faujasite-type Zeolitic Crystales* 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 $CaCl_2$ 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 CO_2/CH_4 and CO_2/N_2 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 CO_2/CH_4 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] *"H_2-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 SiO_2-graphene oxide (GO) nanohybrids: Characterization of thermal properties of epoxy nanocomposites filled with SiO_2-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] *"CO_2/CH_4 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 CH_4 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 PEBAX-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 $LaMnO_3$ Nanoparticles"* 2014
Applied Surface Science, 318, pp. 213–217

[38] *"Nano Composite PEBAX®/PEG Membranes: Effect of MWNT Filler on CO_2/CH_4 Separation"* 2014
International Journal of Nano Dimension, 5(3), pp. 247-254

[39] *"CO_2 Permeation through poly(amide-6-b-ethylene oxide)-nanosilica Membranes"* 2014
Applied Surface Science, 318, pp. 176–179

[40] *"A Visible Light Driven Doped TiO_2 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 PEBAX® Membranes: Effect of Zeolite X Filler on CO_2 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 $AlPO_4$-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 CO_2 Adsorption"* 2011
Petroleum Research 68, pp. 30–41

[57] *"Nano-sized $AlPO_4$-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 microfiltration using ANN*" 2011
Desalination 277, pp. 348–355

[59] "*Experimental & Theoretical Study on the CH_4 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)
Thermochimica 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)