

## CURRICULUM VITAE

**Surname:** OMIDKHAH NASRIN

**First Name:** MOHAMMADREZA

**Present Employment:** Professor,  
Chemical Engineering Department  
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**Date of Birth:** 10/01/58

**Place of Birth:** Tehran, Iran

**Marital Status:** Married with two children

### **Education:**

1986 - 1990, Ph.D. in Chemical Engineering, UMIST, Manchester, UK

1983 - 1985, M.Sc. in Chemical Engineering, Wayne State Univ. Michigan, USA

1975 - 1982, B.Sc. in Chemical Engineering, Amir Kabir Univ. Tehran

**Title of Ph.D. Thesis:** " Optimising Reaction - Separation Systems Through Improved Understanding of Their Interactions"

### **Employments:**

2010 - Present, Professor, Tarbiat Modarres University, Tehran

2013 - Present, President of Chemistry and Chemical Engineering Research Center of Iran

2003 - 2010, Associate Professor, Tarbiat Modarres University, Tehran

1990 - 2003, Assistant Professor, Tarbiat Modarres University, Tehran

2007 - 2010, Director of Research & Technology Department, National Iranian Oil Refining and Distribution Company

1999 - 2007, General Manager of Technology Development Plan, Ministry of Industries and Mines, Tehran

1998 - 1999, Sabbatical leave, UMIST, Manchester, UK

1997 -1998, Director of international affairs of Institute for International Energy Studies (IIES), Tehran

1994 -1995, Director General of UNIDO office in Iran

1993 -1994, Deputy minister of industry in research and training, Tehran

1992 -1993, Vice Chancellor in academic affairs, K.N. Toosi Univ. of Technology

1991 - 1992, Head of Technical Section of National Iranian Oil Company (NIOC) Management Information & Computer Center, Tehran

### **Honoree Engagements:**

President of IChE (Iranian Association of Chemical Engineering), 2010 – Present  
Member of editorial board of Petroleum Research Journal, 2009 – Present  
Member of editorial board of Farayandno Journal, 2009 - 2011  
Member of editorial board of Iranian Journal of Chemical Engineering, 2008 - Present  
Member of editorial board of Iranian Energy Economics Journal, 1995 - Present  
Member of editorial board of Iranian journal of Industry & Development, 1995 – 1999  
Advisor to the minister of Industry, 1994 – 1996  
Consultant to National Iranian Petrochemical Company (NIPC), 1991 -1996  
Consultant to National Iranian Oil Company (NIOC), 1990 – 1995

### **Professional Memberships:**

Member of IChE (Iranian Association of Chemical Engineering)  
Member of IPI (Iranian Petroleum Institute)  
Member of Gas Engineering Association  
Member of Energy Association  
Member of IIES (Institute for International Energy Studies)  
Member of IAEE (Iran Association for Energy Economics)  
Member of the board of IAEE, 1995 - 1997, 1999 - present  
Member of the World Energy Council (WEC), National Energy Committee of Iran  
Chairman of the board of TPI, (Technology Park of Iran), 1997 - 1999  
Member of the board of TPI, (Technology Park of Iran), 1994 - 1997

### **Research Area:**

Process synthesis and optimization, Process integration-Pinch Technology,  
Modeling and simulation, Process heat recovery systems, Energy management,  
Membrane synthesis and characterization, Plasma technology,

### **Courses Taught:**

Conceptual Design of Chemical Processes, Process Integration, Heat Transfer,  
Advanced Optimization, Plant Design & Economics, Computer Aided Design,  
Experimental Design & Statistical Analysis, Advanced Distillation, Unit Operations

### **Published papers:**

1. Davari, S.; **Omidkhah, M.R.**; Abdollahi, M., “Improved antifouling ability of thin film composite polyamide membrane modified by a pH-sensitive imidazole-based zwitterionic polyelectrolyte”, *Journal of Membrane Science* 564, 2018, 788–799.
2. Ebadi Amooghin, A.; Sanaeepur, H.; **Omidkhah, M.R.**; Kargari, A., “ship-in-a-bottle, a new synthesis strategy for preparing novel hybrid host-guest nanocomposites for highly selective membrane gas separation”, *Journal of Materials Chemistry A*, 6 (4), 2018, 1751-1771.

- Ferdowsi, M.; Yazdani, F.; **Omidkhah, M.R.**; Keshavarz, M.H., "Reliable Prediction of Shock Sensitivity of Energetic Compounds based on Small-scale Gap Test through Their Electric Spark Sensitivity", *Journal of Inorganic and General Chemistry, ZAAC*, 644 (16), 2018, 888-892.
- Rahmani, S.; Mortaheb, H.R.; **Omidkhah, M.R.**; Khodadadi Dizaji, A., "Investigation on Performance of PDMS-Graphene/PES Hybrid Membrane for Pervaporative Separation of Phenol from Aqueous Streams", *Polymer – Plastics Technology and Engineering*, 2018, In Press.
- Barmala, M.; Behnood, M.; **Omidkhah, M.R.**, "Photo oxidation of DBT using carbon nanotube titania composite as visible light active photo catalyst", *Journal of Central South University*, 25, 2018, 1642–1650.
- Nezhadmoghadam, E.; Pourafshari Chenar, M.; **Omidkhah, M.R.**; Nezhadmoghadam, A.; Abedini, R., "Aminosilane grafted Matrimid 5218/nano-silica mixed matrix membrane for CO<sub>2</sub>/light gases separation", *Korean Journal of Chemical Engineering*, 35(2), 2018, 526-534.
- Hazrati, H.; Rostamizadeh, M.; **Omidkhah, M.R.**; Sadeghian, Z., "Influence of synthesis and operating parameters on silicalite-1 membrane properties", *Comptes Rendus Chimie*, 21, 2018, 19-26.
- Keshavarz, M.H.; Ghaffarzadeh, M.; **Omidkhah, M.R.**; Farhadi, K., "Correlation between Shock Sensitivity of Nitramine Energetic Compounds based on Small-scale Gap Test and Their Electric Spark Sensitivity", *Journal of Inorganic and General Chemistry, ZAAC*, 2018, DOI: 10.1002/zaac.201700400.
- Chitsaz, H.; **Omidkhah, M.R.**; Ghobadian, B.; Ardjmand, M., "Optimization of hydrodynamic cavitation process of biodiesel production by response surface methodology", *Journal of Environmental Chemical Engineering*, 6, 2018, 2262-2268.
- Azami, H.; **Omidkhah, M.R.**, "Preparation, Characterization, and Application of Vertically Aligned CNT Sheets through Template Assisted Pyrolysis of PBI-Kapton" *The Canadian Journal of Chemical Engineering*, 95, 2017, 307-318.
- Chehrizi, E.; Sharif, A.; **Omidkhah, M.R.**; Karimi M., "Correction to Modeling the Effects of Interfacial Characteristics on Gas Permeation Behavior of Nanotube-Mixed Matrix Membranes", *ACS Applied Materials and Interfaces*, 9 (42), 2017, 37321-37331.
- Azimzadeh, H.; Akbari, A.; **Omidkhah, M.R.**, "Catalytic oxidative desulfurization performance of immobilized NMP.FeCl<sub>3</sub> ionic liquid on  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> support", *Chemical Engineering Journal*, 320, 2017, 189-200.
- Ghasemi Estahbanati, E.; **Omidkhah, M.R.**; Ebadi Amooghin, A., "Preparation and characterization of novel Ionic liquid/Pebax membranes for efficient CO<sub>2</sub>/light gases separation", *Journal of Industrial and Engineering Chemistry*, 51, 2017, 77-89.
- Ghasemi Estahbanati, E.; **Omidkhah, M.R.**; Ebadi Amooghin, A., "Interfacial Design of Ternary Mixed Matrix Membranes Containing Pebax 1657/Silver-Nanopowder / [BMIM][BF<sub>4</sub>] for Improved CO<sub>2</sub> Separation Performance", *ACS Applied Materials and Interfaces*, 9, 2017, 10094-10105.
- Khosravi, T.; **Omidkhah, M.R.**; Kaliaguine, S.; Rodrigue, D., "Amine-Functionalized CuBTC/Poly(Ether-b-Amide-6) (Pebax MH 1657) Mixed Matrix

- Membranes for CO<sub>2</sub>/CH<sub>4</sub> Separation”, The Canadian Journal of Chemical Engineering, 95, 2017, 2024-2033.
16. Khosravi, T.; **Omidkhah, M.R.**, “Preparation of CO<sub>2</sub> selective composite membranes using Pebax/CuBTC/PEG-ran-PPG ternary system”, Journal of Energy Chemistry, 26, 2017, 530-539.
  17. Sanaeepur, H.; Kargari, A.; Nasernejad, B.; Ebadi Amooghin, A.; **Omidkhah, M.R.**, “A novel Co<sup>2+</sup> exchanged zeoliteY/cellulose acetate mixed matrix membrane for CO<sub>2</sub>/N<sub>2</sub> separation”, Journal of the Taiwan Institute of Chemical Engineers, 60, 2016, 403-413.
  18. Ebadi Amooghin, A.; **Omidkhah M.R.**; Sanaeepur, H.; Kargari, A., “Preparation and characterization of Ag + ion-exchanged zeolite-Matrimid®5218 mixed matrix membrane for CO<sub>2</sub> /CH<sub>4</sub> separation”, Journal of Energy Chemistry, 25, 2016, 450-462.
  19. Hosseinzadeh Beiragh H.; **Omidkhah, M.R.**; Abedini, R.; Khosravi, T.; Pakseresht, S., “Synthesis and characterization of poly (ether-block-amide) mixed matrix membranes incorporated by nanoporous ZSM-5 particles for CO<sub>2</sub>/CH<sub>4</sub> separation”, Asia-Pacific Journal of Chemical Engineering, 11, 2016, 522–532.
  20. Pirouzfard, V.; **Omidkhah, M.R.**, “Mathematical modeling and optimization of gas transport through carbon molecular sieve membrane and determining the model parameters using genetic algorithm”, Iran Polymer Journal, 25, 2016, 203-212.
  21. Karimi S.; Ghobadian B.; **Omidkhah, M.R.**; Towfighi J.; Tavakkoli Yarak, M., “Experimental investigation of bioethanol liquid phase dehydration using natural clinoptilolite”, Journal of Advanced Research, 7, 2016, 435-444.
  22. Sadeghi, Z.; **Omidkhah, M.R.**; Masoumi, M.E.; Abedini, R., “Modification of Existing Permeation Models of Mixed Matrix Membranes Filled with Porous Particles for Gas Separation”, The Canadian Journal of Chemical Engineering, 94, 2016, 547-555.
  23. Moftakhari Sharifzadeh M.M.; Ebadi Amooghin, A.; Zamani Pedram, M.; **Omidkhah, M.R.**, “Time-dependent mathematical modeling of binary gas mixture in facilitated transport membranes (FTMs): A real condition for single-reaction mechanism”, Journal of Industrial and Engineering Chemistry, 39, 2016, 48-65.
  24. Ebadi Amooghin, A.; Sanaeepur, H.; Zamani Pedram, M.; **Omidkhah M.R.**; Kargari, A., “New advances in polymeric membranes for CO<sub>2</sub> separation”, A Book Chapter in Polymer science: research advances, practical applications and educational aspects (Méndez-Vilas, A.; Solano, A., Eds.), 2016.
  25. Ebadi Amooghin, A.; **Omidkhah, M.R.**; Kargari, A., “The effects of aminosilane grafting on NaY zeolite–Matrimid®5218 mixed matrix membranes for CO<sub>2</sub>/CH<sub>4</sub> separation”, Journal of Membrane Science, 490, 2015, 364–379.
  26. Loloei, M.; **Omidkhah, M.R.**; Moghadassi, A.; Ebadi Amooghin, A., “Preparation and Characterization of Matrimid®5218 Based Binary and Ternary Mixed Matrix Membranes for CO<sub>2</sub> Separation”, International Journal of Greenhouse Gas Control, 39, 2015, 225–235.
  27. Dorosti, F.; **Omidkhah M.R.**; Abedini, R., “Enhanced CO<sub>2</sub>/CH<sub>4</sub> separation properties of asymmetric mixed matrix membrane by incorporating nano-porous

- ZSM-5 and MIL-53 particles into Matrimid®5218”, *Journal of Natural Gas Science and Engineering*, 25, 2015, 88–102.
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  29. Najari, S.; Hosseini, S.S.; **Omidkhah, M.R.**; Tan, N.R., “Phenomenological modeling and analysis of gas transport in polyimide membranes for propylene/propane separation”, *RSC Advances*, 5, (58), 2015, 47199-47215.
  30. Khosravi, T.; **Omidkhah, M.R.**, “Preparation of CO<sub>2</sub>-philic polymeric membranes by blending poly(ether-*b*-amide-6) and PEG/PPG-containing copolymer”, *RSC Advances*, 5, (17), 2015, 12849–12859.
  31. Ebadi Amooghin, A.; **Omidkhah, M.R.**; Kargari, A., “Enhanced CO<sub>2</sub> transport properties of membranes by embedding nano-porous zeolite particles into Matrimid®5218 matrix”, *RSC Advances*, 5, (12), 2015, 8552-8565.
  32. Akbari, A.; **Omidkhah, M.R.**; Towfighi Darian J., “Facilitated and selective oxidation of thiophenic sulfur compounds using MoO<sub>x</sub>/Al<sub>2</sub>O<sub>3</sub>-H<sub>2</sub>O<sub>2</sub> system under ultrasonic irradiation”, *Ultrasonics Sonochemistry*, 23, 2015, 231–237.
  33. Ranjbaran, F.; **Omidkhah, M.R.**; Ebadi Amooghin, A., “The novel Elvaloy4170/functionalized multi-walled carbon nanotubes mixed matrix membranes: Fabrication, characterization and gas separation study”, *Journal of the Taiwan Institute of Chemical Engineers*, 49, 2015, 220–228.
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  38. Abedini R.; **Omidkhah, M.R.**; Dorosti F., “Hydrogen separation and purification with poly (4-methyl-1-pentyne)/MIL 53 mixed matrix membrane based on reverse selectivity” *International Journal of Hydrogen Energy*, 39, (15), 2014, 7897–7909.
  39. Dorosti, F.; **Omidkhah, M.R.**; Abedini, R., “Fabrication and characterization of Matrimid/MIL-53 mixed matrix membrane for CO<sub>2</sub>/CH<sub>4</sub> separation”, *Chemical Engineering Research and Design*, 92, (11), 2014, 2439–2448.
  40. Abedini, R.; **Omidkhah, M.R.**; Dorosti, F., “Highly permeable poly(4-methyl-1-pentyne)/NH<sub>2</sub>-MIL 53 (Al) mixed matrix membrane for CO<sub>2</sub>/CH<sub>4</sub> separation”, *RSC Advances*, 4, (69), 2014, 36522-36537.

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42. Akbari, A.; **Omidkhah, M.R.**; Towfighi Darian, J., "Optimization of operating conditions in oxidation of dibenzothiophene in the light hydrocarbon model" *Chemical Industry and Chemical Engineering Quarterly*, 20, (3), 2014, 315–323.
43. Zamani Pedram, M.; **Omidkhah, M.R.**; Ebadi Amooghin, A., "Synthesis and characterization of diethanolamine-impregnated cross-linked polyvinylalcohol/glutaraldehyde membranes for CO<sub>2</sub>/CH<sub>4</sub> separation", *Journal of Industrial and Engineering Chemistry*, 20, (1), 2014, 74–82.
44. Hosseini, S.S.; **Omidkhah, M.R.**; Zarringhalam Moghaddam, A.; Pirouzfard, V.; Krantz, W.B.; Tan N.R., "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*, 122, 2014, 278-289.
45. Pirouzfard, V.; Hosseini, S.S.; **Omidkhah, M.R.**; Moghaddam A.Z., "Modeling and optimization of gas transport characteristics of carbon molecular sieve membranes through statistical analysis", *Polymer Engineering & Science*, 54, (1), 2014, 147–157.
46. Pirouzfard, V.; Zarringhalam Moghaddam A.; **Omidkhah, M.R.**; Hosseini, S.S., "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*, 20, (3), 2014, 1061–1070.
47. Akbari, A.; **Omidkhah, M.R.**; Towfighi Darian J., "Investigation of process variables and intensification effects of ultrasound applied in oxidative desulfurization of model diesel over MoO<sub>3</sub>/Al<sub>2</sub>O<sub>3</sub> catalyst", *Ultrasonics Sonochemistry*, 21, (2), 2014, 692–705.
48. Ebadi Amooghin, A.; Zamani Pedram, M.; **Omidkhah, M.R.**; Yegani, R., A novel CO<sub>2</sub>-selective synthesized amine-impregnated cross-linked polyvinylalcohol/glutaraldehyde membrane: fabrication, characterization, and gas permeation study, *Greenhouse Gases: Science and Technology*, 3, (5), 2013, 378–391.
49. Zamani Pedram, M.; **Omidkhah, M.R.**; Ebadi Amooghin, A.; Yegani, R.; Moghadam, F., "DEA-Impregnated Cross-Linked Polyvinyl Alcohol/Glutaraldehyde Polymeric Systems as CO<sub>2</sub>/CH<sub>4</sub> Gas Separation Membranes", *Iranian Journal of Polymer Science and Technology*, 25, (6), 2013, 477-489.
50. Pakizeh, M.; Neghad Moghadam, A.; **Omidkhah, M.R.**; Namvar-Mahboub, M., "Preparation and characterization of dimethyldichlorosilane modified SiO<sub>2</sub>/PSf nanocomposite membrane", *Korean Journal of Chemical Engineering*, 30, (3), 2013, 751-760.
51. Gilani, N.; Towfighi, J.; Rashidi, A.; Mohammadi, T.; **Omidkhah, M. R.**; Sadeghian A., "Investigation of H<sub>2</sub>S separation from H<sub>2</sub>S/CH<sub>4</sub> mixtures using functionalized and non-functionalized vertically aligned carbon nanotube membranes", *Applied Surface Science*, 270, 2013, 115-123.

52. **Omidkhah, M.R.**; Zamani Pedram, M.; Ebadi Amooghin, A., “Facilitated Transport of CO<sub>2</sub> through DEA-Mediated Poly(Vinyl alcohol) Membrane Cross-Linked by Formaldehyde”, *Journal of Membrane Science & Technology*, 3, (1), 2013, 119.
53. Mohammadi, A.; **Omidkhah, M. R.**; Karimzadeh, R.; Haghtalab, A., “Structural modeling of petroleum fractions based on mixture viscosity and Watson K factor”, *Korean Journal of Chemical Engineering*, 30, (2), 2013, 465-473.
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57. Shamsi,S.; **Omidkhah, M.R.**, “Optimization of steam pressure levels in a total site using a thermoeconomic method”, *Energies*, 5 (3) , 2012, 702-717.
58. Tarighaleslami, A.H. ; **Omidkhah, M.R.**; Ghannadzadeh, A.; Hoseinzadeh Hesas, R., “Thermodynamic evaluation of distillation columns using exergy loss profiles: a case study on the crude oil atmospheric distillation column”, *Clean Techn. Environ. Policy*, 14 (3), 2012, 381-387.
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66. Dorosti, F., **Omidkhah, M.R.**, Pedram, M.Z., Moghadam, F.,” Fabrication and characterization of polysulfone/polyimide–zeolite mixed matrix membrane for gas separation”, *Chemical Engineering Journal*, 171, 2011, 1469-1476.
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- 2- Mohammadi, A.; **Omidkhah, M. R.** and Ghobadian, B. Optimization of Biodiesel Production from High Free Fatty Acid Feedstocks (Part I: Continuous Process). The International Congress on Biodiesel: The Science and the Technology, November, 5-8, 2007, Vienna, Austria.
- 3- Mohammadi, A.; **Omidkhah, M. R.** and Ghobadian, B. Optimization of Biodiesel Production from High Free Fatty Acid Feedstocks (Part II: Batch/ Semi-continuous Process). The International Congress on Biodiesel: The Science and the Technology. November, 5-8, 2007, Vienna, Austria.
- 4- Mohammadi Rad, R.; Karimzadeh, R.; **Omidkhah, M.R.**, "Optimal operation of thermal cracking reactor based on fundamental models", 11<sup>th</sup> National Congress on Chemical Engineering, Tehran, Nov. 2006, (in Farsi).
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#### کتابهای منتشر شده :

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