

## CURRICULUM VITAE

**Surname:** OMIDKHAH NASRIN

**First Name:** MOHAMMADREZA

**Present Employment:** Professor,  
Chemical Engineering Department  
Tarbiat Modarres University

**Address:** Tarbiat Modarres University,  
Chemical Engineering Department,  
Jalal-Al-Ahmad Highway,  
Tehran, IRAN  
P.O.Box 14155-4838  
Telex: 222862 TMU IR  
E-mail: omidkhah@modares.ac.ir

**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 IAEE (Iran Association for Energy Economics)  
Member of the board of IAEE, 1995 - 1997, 1999 - 2001  
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. Haji Andevary H., Akbari A., **Omidkhah M.R.**, “High efficient and selective oxidative desulfurization of diesel fuel using dual-function [Omim]FeCl<sub>4</sub> as catalyst/extractant”, Fuel Processing Technology, 185, 2019, 8–17.
2. Heidari M., Hosseini S.S., **Omidkhah M.R.**, Ghadimi A., “Synthesis and fabrication of adsorptive carbon nanoparticles (ACNs)/PDMS mixed matrix membranes for efficient CO<sub>2</sub>/CH<sub>4</sub> and C<sub>3</sub>H<sub>8</sub>/CH<sub>4</sub> separation”, Separation and Purification Technology 209, 2019, 503–515.

3. Akbari A., **Omidkhah M.R.**, “Silica-zirconia membrane supported on modified alumina for hydrogen production in steam methane reforming unit”, *International Journal of Hydrogen Energy*, 44 (31), 2019, 16698-16706.
4. Azami H., **Omidkhah M.R.**, “Modeling and optimization of characterization of nanostructure anodized aluminium oxide membranes”, *Journal of the Iranian Chemical Society* doi.org/10.1007/s13738-018-01574-2, Published on 03 January 2019.
5. Pourzad S., **Omidkhah M.R.**, Abdollahi M., “Preparation of Fouling-Resistant and Self-Cleaning PVDF Membrane via Surface-Initiated Atom Transfer Radical Polymerization for Emulsified Oil/Water Separation”, *The Canadian Journal of Chemical Engineering*, 2019, doi 10.1002/cjce.23372.
6. Varaeaa M., Honarvara M., Eikani M. H., **Omidkhah M.R.**, Moraki N., “Supercritical fluid extraction of free amino acids from sugar beet and sugar cane molasses”, *The Journal of Supercritical Fluids* 144, 2019, 48–55.
7. Varaeaa M., Honarvara M., Eikani M. H., **Omidkhah M.R.**, Moraki N., “Effect of Storage Temperature and Light on the Freeze-Dried Amino Acids from Sugar Beet and Sugar Cane Molasses”, *Journal of Food Biosciences and Technology*, 9(2), 2019, 51-62.
8. Ferdowsi M., Yazdani F., **Omidkhah M.R.**, Keshavarz M.H., “A General Relationship between Electric Spark and Impact Sensitivities of Nitroaromatics and Nitramines”, *Journal of Inorganic and General Chemistry, ZAAC*, 644(23), 2018, 1623-1628.
9. Vaez M., Alijani S., **Omidkhah M.R.**, Zarringhalam Moghaddam A., “Synthesis, characterization and optimization of N-TiO<sub>2</sub>/PANI nanocomposite for photodegradation of acid dye under visible light”, *Polymer Composites* 39(12), 2018, 4605-4616.
10. Sanaeepur H., Ebadi Amooghin A., Khademian E., Kargari A., **Omidkhah M.R.**, “Gas permeation modeling of mixed matrix membranes: Adsorption isotherms and permeability models”, *Polymer Composites* 39(12), 2018, 4560-4568.
11. 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.
12. 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.
13. 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.
14. 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.

15. 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.
16. 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.
17. 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.
18. 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.
19. 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*, 643(24), 2017, 2158-2162.
20. 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.
21. Chehrazi 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.
22. 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.
23. 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.
24. 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.
25. 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.
26. 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.
27. 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.
28. 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.
  29. 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.
  30. 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.
  31. 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.
  32. 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.
  33. 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.
  34. 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.
  35. 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.
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  37. 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.
  38. Loloei M., Moghadassi A., **Omidkhah M.R.**, Ebadi Amooghin A., “Improved CO<sub>2</sub> separation performance of Matrimid®5218 membrane by addition of low molecular weight polyethylene glycol”, *Greenhouse Gas Science and Technology*, 5 (5), 2015, 530-544.
  39. 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.

40. 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.
41. 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.
42. 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.
43. 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.
44. Vaez M., **Omidkhah M.R.**, Alijani S., Zarringhalam Moghaddam A., Sadrameli M., Gholipour Zanjani N., "Evaluation of photocatalytic activity of immobilized titania nanoparticles by support vector machine and artificial neural network", The Canadian Journal of Chemical Engineering, 93 (6), 2015, 1009–1016.
45. Sadeghi Z., **Omidkhah M.R.**, Masoumi M.E., "New Permeation Model for Mixed Matrix Membrane with Porous Particles", International Journal of Chemical Engineering and Applications, 6 (5), 2015, 325-330.
46. Abedini R., **Omidkhah M.R.**, Dorosti F., "CO<sub>2</sub>/CH<sub>4</sub> Separation by a Mixed Matrix Membrane of Polymethylpentylene/MIL-53 Particles", Iranian Journal of Polymer Science and Technology, 27 (4), 2014, 337-351.
47. Tavassolirizi Z., Shams K., **Omidkhah M.R.**, "Platinum recovery from model media and a Pt-Sn/alumina spent catalyst extract using corn husk-based adsorbent", Journal of Industrial and Engineering Chemistry, 23, 2015, 119-127.
48. 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.
49. 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.
50. 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.
51. Zamani Pedram M., **Omidkhah M.R.**, Ebadi Amooghin A., Yaghani R., "Facilitated transport by amine-mediated poly(vinyl alcohol) membranes for CO<sub>2</sub> removal from natural gas", Polymer Engineering & Science, 54 (6), 2014, 1268–1279.
52. 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.
53. 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.
54. 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.
  55. Pirouzfard V., Hosseini S.S., **Omidkhah M.R.**, Zarringhalam Moghaddam A., “Modeling and optimization of gas transport characteristics of carbon molecular sieve membranes through statistical analysis”, *Polymer Engineering & Science*, 54 (1), 2014, 147–157.
  56. 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.
  57. 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.
  58. 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.
  59. 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.
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65. Peyvandi K., Haghtalab A., **Omidkhah M.R.**, “Using an electrochemical technique to study the effective variables on morphology and deposition of CaCO<sub>3</sub> and BaSO<sub>4</sub> at the metal surface”, *Journal of Crystal Growth*, 354, 2012, 109-118.
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67. Shamsi S., **Omidkhah M.R.**, “Optimization of steam pressure levels in a total site using a thermoeconomic method”, *Energies*, 5 (3), 2012, 702-717.
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72. Shariati A., **Omidkhah M.R.**, Pedram M.Z., “New permeation models for nanocomposite polymeric membranes filled with nonporous particles”, *Chemical Engineering Research and Design*, 90 (4), 2012, 563-575.
73. Shamkhali A., **Omidkhah M.R.**, Towfighi J., Jafarinasr M., “Production of synthesis gas by combination of steam and dry reforming using GHR”, *Petroleum science and technology*, 30 (6), 2012, 594-604.
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- Cooling Water Makeup Cost in Oil Refineries”, *World Applied Science Journal*, 12 (7), 2011, 988-998.
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#### **Reviewed Papers presented in conferences:**

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- 2- Mohammadi A., **Omidkhah M.R.**, 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.
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#### کتابهای منتشر شده :

- ۱- سیامک اسماعیل زاده خادم ، محمد رضا امیدخواه ، غلامحسین لیاقت " مانیتورینگ وضعیت ماشین آلات " ، انتشارات دانشگاه گیلان ، اسفند ۱۳۸۰
- ۲- سیامک اسماعیل زاده خادم ، محمد رضا امیدخواه ، محمود درویزه " تکنولوژی های نگهداری و تعمیرات و آنالیز ارتعاشی ماشین آلات " ، انتشارات دانشگاه گیلان ، اسفند ۱۳۸۰
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