

# Curriculum Vitae

## Personal Information:

Name: Amanollah  
Surname: Ebadi  
Date of birth: 06.11.1961  
Marital Status: Married  
Number of children: 2  
Nationality: IRAN



## Address:

Chemical Engineering Faculty of Sahand University of Technology  
Tabriz-IRAN, P.O. Box 51335-1996  
Tel: (+98)41 33459144 or (+98)41 33443801-39 ext. 9144 Fax: (+98)41 33444355  
e-mail: [ebadi@sut.ac.ir](mailto:ebadi@sut.ac.ir), [ebadi\\_amn@yahoo.com](mailto:ebadi_amn@yahoo.com)

## Educational Background:

- Ph.D. in Chemical Engineering, Sahand University of Technology, since Sep. 2002 up to Jan. 2008
- M. Sc. In Chemical Engineering, Engineering Faculty of Tehran University, Tehran-IRAN, since Feb. 1992 up to Aug. 1994, GPA 17.13/20
- B. Sc. In Chemical Engineering, Chemical Engineering Faculty of Isfahan University of Technology, Isfahan-IRAN, since Nov. 1984 up to Jul. 1988, GPA 16.24/20

## Working and Professional Experience:

- Fellow of Scientific Staff of Chemical Engineering Faculty of Sahand University of Technology, since Nov. 2003
- Fellow of Scientific Staff of Chemical Engineering Group of IROST-Tabriz Center, since Nov. 1994 up to Nov. 2003
- Manager of Quality Control at Urmia Cement Factory, since Oct. 1988 up to Jul. 1991

## Language Skills:

- English                      - Persian
- Turkish                      - Azerbaijani                      - Russian (using texts only)

## Research interests:

- Ozonation Processes
- Adsorption
- Heterogeneous Catalytic Reactors
- Multicomponent Distillation
- Modeling and Simulation of Chemical Processes

## Teaching Courses:

*BSc Courses:*  
Unit Operations of Chemical Engineering  
Multicomponent Distillation  
Petrochemical Processes

*MSc and PhD Courses:*  
Multicomponent Separations  
Water and Wastewater Treatment  
Advanced mathematics

## **Publications:**

### **Journal Papers**

1. Abbas Aghaeinejad-Meybodi\*, Amanollah Ebadi, Alireza Khataee, Afshin Dehghani Kiadehi; Comparative investigation on catalytic ozonation of Fluoxetine antidepressant drug in the presence of boehmite and  $\gamma$ -alumina nanocatalysts: operational parameters, kinetics and degradation mechanism studies; *Chemical Papers*, 75(1), 421-430, 2021
2. Mojtaba Forouzesh \*, Amanollah Ebadi , Fahime Abedini; Thermocatalytic persulfate activation for metronidazole removal in the continuous operation; *Separation and Purification Technology*, 258, 118055, 2021
3. Mojtaba Forouzesh, Amanollah Ebadi \*, Abbas Aghaeinejad-Meybodi; Continuous fixed-bed oxidation of metronidazole by the sulfate radical based process over nitric acid treated granular activated carbon; *Journal of Water Process Engineering*, 36, 101280, 2020
4. Zahra Heidari, Reza Alizadeh\*, Amanollah Ebadi, Nihal Oturan , Mehmet A. Oturan\*; Efficient photocatalytic degradation of furosemide by a novel sonoprecipitated ZnO over ion exchanged clinoptilolite nanorods; *Separation and Purification Technology*, 242, 116800, 2020
5. Linda Pour salim, Davood Kahforoushan\*, Amanollah Ebadi, Milad Mohammadi; Investigation of Contamination in Irrigation Network of Agricultural Lands North of Khuzestan Plain; *Journal of Water and Wastewater Science and Engineering (JWWSE) in persian*, Vol. 5, No. 1, PP. 14-22, Spring 2020, DOI: 10.22112/jwwse.2020.152450.1115
6. Javad Rahbar Shahrouzi \*, Sakineh Molaee, Amanollah Ebadi, Farshid Towfighi, Farshad Bakhti; Investigation of effective parameters on adsorption of amoxicillin from aqueous medium onto activated carbon; *Advances in Environmental Technology*, 2, 107-114, 2019
7. Zahra Heidari \*, Reza Alizade\*, Amanollah Ebadi , Rasool Pelalak, Nihal Oturan , Mehmet A. Oturan \*; Degradation of furosemide using photocatalytic ozonation in the presence of ZnO/ICLT nanocomposite particles: Experimental, modeling, optimization and mechanism evaluation; *Journal of Molecular Liquids*, 319, 114-193, 2020
8. Mojtaba Forouzesh, Amanollah Ebadi\*, Abbas Aghaeinejad-Meybodi, Reza Khoshbouy; Transformation of persulfate to free sulfate radical over granular activated carbon: Effect of acidic oxygen functional groups; *Chemical Engineering Journal*, Vol. 374, 965–974, 2019
9. M. Forouzesh, A. Ebadi\*, Abbas Aghaeinejad-Meybodi; Degradation of metronidazole antibiotic in aqueous medium using activated carbon as a persulfate activator; *Separation and Purification Technology*, Vol 210, 145–151, 2019
10. A. Aghaeinejad-Meybodi, A. Ebadi\*, A. Khataee, A. Dehghani; Degradation of Fluoxetine using catalytic ozonation in aqueous media in the presence of nano- $\gamma$ -alumina catalyst: Experimental, modeling and optimization study; *Separation and Purification Technology*; Vol. 211, 551–563, 2019

11. M. Abdoli, S. Shafiei\*, A. Ebadi; Water Flux Reduction in Microfiltration Membranes: A Pore Network Study; *Chem. Eng. Technol*, Vol 41, No. 8, 1566–1576, 2018
12. M. Abdoli, S. Shafiei\*, A. Ebadi; Insight into Heterogeneity Effects in Methane Hydrate Dissociation via Pore-Scale Modeling; *Transport in Porous Media*, Vol 124: 183–201, 2018
13. Afshin Dehghani Kiadehi, Amanollah Ebadi\*, Abbas Aghaeinejad-Meybodi; Removal of methyl tert-butyl ether (MTBE) from aqueous medium in the presence of nano-perfluorooctyl alumina (PFOAL): Experimental study of adsorption and catalytic ozonation processes; *Separation and Purification Technology*, Vol 182 (2017) 238-246, 2017
14. Afshin Dehghani, Amanollah Ebadi\*, Sirous Shafiei, Abbas Aghaeinejad-Meybodi; Synthesis, characterization, and application of nano-perfluorooctyl alumina for adsorption of methyl tertiary-butyl ether (MTBE) from aqueous medium; *Desalination and Water Treatment*, doi: 10.1080/19443994.2015.1046942, 2015
15. Somaiyeh Allahyari, Mohammad Haghghi\*, Amanollah Ebadi; Direct synthesis of DME over nanostructured CuO–ZnO–Al<sub>2</sub>O<sub>3</sub>/HZSM-5 catalyst washcoated on high pressure microreactor: Effect of catalyst loading and process condition on reactor performance; *Chemical Engineering Journal*, Vol. 262, 1175-1186, 2015
16. Abbas Aghaeinejad-Meybodi, Amanollah Ebadi\*, Sirous Shafiei, Alireza Khataee, Mohammad Rostampour; Degradation of antidepressant drug Fluoxetine in aqueous media by ozone/H<sub>2</sub>O<sub>2</sub> system: Process optimization using central composite design; *Environmental Technology*, Vol. 36, No. 12, 1477–1488, 2015
17. Abbas Aghaeinejad-Meybodi, Amanollah Ebadi\*, Sirous Shafiei, Alireza Khataee, Mohammad Rostampour; Modeling and optimization of antidepressant drug Fluoxetine removal in aqueous media by ozone/H<sub>2</sub>O<sub>2</sub> process: Comparison of central composite design and artificial neural network approaches; *Journal of the Taiwan Institute of Chemical Engineers*, DOI: 10.1016/j.jtice.2014.10.02, 2014
18. Somaiyeh Allahyari, Mohammad Haghghi\*, Amanollah Ebadi, Shahin Hosseinzadeh; Effect of irradiation power and time on ultrasound assisted co-precipitation of nanostructured CuO–ZnO–Al<sub>2</sub>O<sub>3</sub> over HZSM-5 used for direct conversion of syngas to DME as a green fuel; *Energy Conversion and Management*, 83 (2014) 212–222, 2014
19. Somaiyeh Allahyari, Mohammad Haghghi\*, Amanollah Ebadi, Shahin Hosseinzadeh; Ultrasound assisted co-precipitation of nanostructured CuO–ZnO–Al<sub>2</sub>O<sub>3</sub> over HZSM-5: Effect of precursor and irradiation power on nanocatalyst properties and catalytic performance for direct syngas to DME; *Ultrasonics Sonochemistry* 21 (2014) 663–673, 2014
20. Somaiyeh Allahyari, Mohammad Haghghi\*, Amanollah Ebadi, Shahin Hosseinzadeh; Habib Gavam Saeedi; The beneficial use of ultrasound irradiation and nitrate/ acetate metal precursors in the co-precipitation synthesis and characterization of nanostructured CuO–ZnO–Al<sub>2</sub>O<sub>3</sub> catalyst for methanol synthesis; *Reaction Kinetics, Mechanisms and Catalysis*, Vol. 112 Pages:101–116, 2014
21. Somaiyeh Allahyari, Mohammad Haghghi\*, Amanollah Ebadi, Habib Qavam Saeedi; Direct conversion of syngas to DME over CuO–ZnO–Al<sub>2</sub>O<sub>3</sub>/HZSM-5 nanocatalyst synthesized via ultrasound-assisted co-precipitation method: New insights into the role of gas injection; *International Journal of Energy Research*, Vol. 38(15), 2030–2043, 2014

22. Somaiyeh Allahyari , Mohammad Haghghi , Amanollah Ebadi; Direct conversion of syngas to DME as a green fuel in a high pressure microreactor: Influence of slurry solid content on characteristics and reactivity of washcoated CuO–ZnO–Al<sub>2</sub>O<sub>3</sub>/HZSM-5 nanocatalyst; *Chemical Engineering and Processing: Process Intensification*, Vol. 86, Pages 53-63, 2014
23. Somaiyeh Allahyari , Mohammad Haghghi , Amanollah Ebadi, Habib Qavam Saedi; Direct synthesis of dimethyl ether as a green fuel from syngas over nanostructured CuO–ZnO–Al<sub>2</sub>O<sub>3</sub>/HZSM-5 catalyst: Influence of irradiation time on nanocatalyst properties and catalytic performance; *Journal of Power Sources*, Volume 272, Pages 929-939, 2014
24. Amir Mirzaei, Amanollah Ebadi\*, Peyman Khajavi; Kinetic and equilibrium modeling of single and binary adsorption of methyl tert-butyl ether (MTBE) and tert-butyl alcohol (TBA) onto nano-perfluorooctyl alumina; *Chemical Engineering Journal*, Vol. 231, 550–560, 2013
25. Y. Jafarzadeh, S. Shafiei\*, A. Ebadi, M. Abdoli; Experimental Investigation on the Effect of Parameters Influencing the Performance of a Horizontal Styrene-Water Separator; *Iranian Journal of Chemical Engineering* Vol. 9, No. 3 (Summer), 2012
26. Y. Jafarzadeh, S. Shafiei\*, A. Ebadi, M. Abdoli; Batch Separation of Styrene/Ethylbenzene/ Water dispersions; *Iranian Journal of Chemical Engineering (English edition)*, 7(4), 22-28, 2010
  
27. Amanollah Ebadi, Jafar Soltan, Sirous Shafiei; Ozonation and Adsorption of MTBE in the Presence of Perfluorooctyl Alumina as a Catalyst or Adsorbent; Chapter 9 of the edited book: *Water Production and Wastewater Treatment*, Nova Science Publishers, 2010
28. A. Ebadi, J.S. Soltan Mohammadzadeh, S. Shafiei; Kinetics of Catalytic Ozonation of Methyl tert-Butyl Ether in the Presence of Perfluorooctyl Alumina; *Chem. Eng. Technol.* 32(5), 778-788, 2009
29. A. Ebadi, J.S. Soltan Mohammadzadeh, A. Khudiev; What is the correct form of BET isotherm for modeling liquid phase adsorption?; *Adsorption*, 15(1), 65-73, 2009
30. A. Ebadi, J.S. Soltan Mohammadzadeh, A. Khudiev; Adsorption of methyl tert-butyl ether (MTBE) on perfluorooctyl alumina; *Chem. Eng. Technol.* 30(12), 1666-1673, 2007
31. A. Rahimi Mamaghani, E. Fatehifar, A. Ebadi, J.S. Soltan Mohammadzadeh; Feasibility Study of Using Advanced Oxidation Processes in Water and Wastewater Treatment; *Iranian Journal of Chemical Engineering (Farsi ed.)*, Vol. 7, No 38, 62-74, Feb. 2009
32. A. Ebadi, J.S. Soltan Mohammadzadeh; Ozone generating processes; *Iranian Journal of Chemical Engineering* Vol. 3, No. 11, 40-47, Sep. 2004 (in persian)
33. A. Ebadi, J.S. Soltan Mohammadzadeh; Ozone and its widespread application: II. Nonclassic applications; *Iranian Journal of Chemical Engineering* Vol. 3, No. 10, July 2004 (in persian)
34. A. Ebadi, J.S. Soltan Mohammadzadeh; Ozone and its widespread applications: I. Classic applications- Water & Waste water treatments; *Iranian Journal of Chemical Engineering* Vol. 3, No. 9, May 2004 (in Persian)

35. Internal Resistances of Mass Transfer in the System of Synthesis of MTBE and the Use of Multicomponent Diffusion Model for Prediction of These Resistances, Intl. Petrochemical J. , No 1, Jan. 2002, Baku , Azarbaijan Academy of Sciences

### **Conferences:**

36. Elmira Yaghinirad, Reza Alizadeh\*, Amanollah Ebadi; A Review on Removal of Linezolid Antibiotic in Aqueous Medium; The 5th National Conference on Environmental Engineering and Management (5EEM)-31 May 2023
37. M. Forouzesh, A. Ebadi\*; Degradation of Metronidazole Antibiotic from Aqueous Medium in the Continuous Up-Flow Fixed-Bed Reactor: Activated Carbon as Persulfate Activator; The 10th International Chemical Engineering Congress & Exhibition (IChEC 2018) Isfahan, Iran; 6-10 May, 2018
38. Sakineh Molaei, Javad R. Shahrouzi\*, Amanollah Ebadi; Adsorption of amoxicillin onto activated carbon; The 9th International Chemical Engineering Congress & Exhibition (IChEC 2015) Shiraz, Iran, 26-28 December, 2015
39. Aghaeinejad-Meybodi, A. Ebadi\*, S. Shafiei, A.R. Khataee; Treatment of Pharmaceutical Wastewater Containing Fluoxetine by Ozone/H<sub>2</sub>O<sub>2</sub> Process: Modeling of Experimental Results by Artificial Neural Networks; The 8th International Chemical Engineering Congress & Exhibition (IChEC 2014) Kish, Iran, 24-27 February, 2014
40. Aghaeinejad-Meybodi, A. Ebadi\*, S. Shafiei, A.R. Khataee, A. Dehghani; Catalytic ozonation of Fluoxetine antidepressant drug in aqueous media in the presence of  $\gamma$ -Al<sub>2</sub>O<sub>3</sub> nanocatalyst; Proceedings of 5th International Congress on Nanoscience & Nanotechnology (ICNN2014) 22-24 October 2014, Tehran, Iran
41. Amir Mirzaei, Amanollah Ebadi\*; Kinetics and equilibrium of aqueous phase MTBE and TBA adsorption by nano-perfluorooctyl alumina (nano-PFOALB); The 14<sup>th</sup> Iranian National Chemical Engineering Congress (IChEC 2012) Sharif University of Technology, Tehran, Iran, 16-18 October, 2012
42. M. Abdollahifar, Mohammad Haghghi, Amanollah Ebadi; Effect of Synthesis Conditions of Boehmite AlOOH from Al(OH)<sub>3</sub> on its Physicochemical Characteristics; 13<sup>th</sup> Iranian National Chemical Engineering Congress & 1<sup>st</sup> International Regional Chemical and Petroleum Engineering, 25-28 Oct. 2010
43. Y. Jafarzadeh, S. Shafiei, A. Ebadi, M. Abdoli; Batch Separation of Styrene/Ethylbenzene? Water dispersions; The 6<sup>th</sup> Intl. Chemical Engineering Congress, Nov. 16-20 2009, Kish Island, Iran
44. A. Ebadi, J.S. Soltan Mohammadzadeh, S. Shafiei; Perfluorooctyl alumina with a dual application for removal of organic pollutants from water, Presented at the first international conference of Advances in Wastewater Treatment and Reuse (AWTR2009); Nov. 10-12, 2009, Tehran University, Tehran- Iran.
45. A. Ebadi, J.S. Soltan Mohammadzadeh, S. Shafiei; Kinetics of Ozonation of MTBE in the Presence of Perfluorooctyl Alumina Catalyst; Presented at the 8<sup>th</sup> world Congress of Chemical Engineering (WCCE8), 23-27 August 2009, Montreal-Canada
46. A. Ebadi, J.S. Soltan Mohammadzadeh, S. Shafiei; Application of BET Isotherm Equation in Wide Range of Gas Phase Adsorbate Concentration; Presented at the 12<sup>th</sup> National Congress of Chemical Engineering of Iran, 20-23 Oct. 2008, Sahand University of Technology, Tabriz-Iran

47. A. Ebadi, J.S. Soltan Mohammadzadeh, S. Shafiei; Enhancement of Molecular Mechanism of Ozonation Reactions by the Use of Heterogeneous Catalysts; Presented at the 58<sup>th</sup> Canadian Chemical Engineering Conference (CSCHE 2008), 19-22 October 2008, Ottawa, Canada
48. A. Ebadi, J.S. Soltan Mohammadzadeh; Preliminary evaluation of ozonation of methyl *tert*-butyl ether in the presence of perfluorooctyl alumina catalyst, Presented at the 5th International congress of Chemical Engineering of Iran, 5-6 Jan. 2008, Kish Island
49. A. Ebadi, J.S. Soltan Mohammadzadeh; Application of BET Isotherm for Liquid Phase Adsorption; 11<sup>th</sup> National Iranian Congress of Chemical Engineering, 28-30 Nov. 2006, Tarbiat Modarress University, Tehran-Iran (In Farsi)
50. A. Ebadi, F. Ghalichi; Simulation of Blood Flow in Blood Vessels with Multiple Obstructions; 10<sup>th</sup> National Iranian Congress of Chemical Engineering, 15-17 Nov. 2005, Sistan and Baluchestan University, Zahedan- Iran
51. A. Ebadi, J.S. Soltan Mohammadzadeh, A. Khudiev; Low efficiency of energy utilization in ozone generation as the major challenge of ozonation processes; 2<sup>nd</sup> Intl. conference on technical and Physical Problems in Power Engineering; 6-8 Sep 2004, Azerbaijan Tarbiat Moallem University, Tabriz-Iran
52. Preparation of Synthetic Fatty Acids by catalytic Oxidation of Paraffins from Iranian Oil Sources, Intl. Energy Academy of Azerbaijan, Baku, May 2002
53. Synthesis of Vinylhydrazones; Russian National Conference on Current Trends in Petrochemistry; 17-20 April 2001, Moscow, Institute of Petrochemical Synthesis, Academy of Sciences of Russia
54. Study of Regeneration Process of Deactivated Catalyst of Melamine Crystal Production in Urmia Petrochemical Complex, 3<sup>rd</sup> National Congress of Chemical Engineering in Iran, Ahvaz University of Petroleum Technology, Ahvaz- Iran, Mar. 1998 (Farsi)
55. Study of Oxymethylation Reactions of Cyclic Ketones, 2<sup>nd</sup> Intl. and 12<sup>th</sup> National Congress of Chemistry and Chemical Engineering in Iran, Shahid Bahonar University of Kerman, Kerman-Iran, Sep 1997
56. Basic Problems in Production of Synthetic Esters Used in Formulation of Fragrances and Flavors, 6<sup>th</sup> Specialized Seminar of Organic Chemistry in Iran, Aug 1997, Tabriz University, Tabriz Iran
57. Synthetic Lubricants, Journal of Chemistry, Iran University Press, No. 2, Aug-Nov. 1996 (Farsi)
58. Carbon Dioxide and Environmental Problems, First Conference of Production and Consumption of Lime, Tabriz University, Tabriz-IRAN, Nov. 1996 (Farsi)
59. Quality Reaction of Maleic Anhydride, 2<sup>nd</sup> National Congress of Chemical Engineering in Iran, Amir Kabir University of Technology, Mar. 1997
60. A. Ebadi; Modeling and Simulation of Fixed Bed Reactors of MTBE, 2<sup>nd</sup> Intl. Conf. of Petrochemical Processes, June 1996, Acad. of Sciences of Azerbaijan, Baku