CURRICULUM VITAE

Name: Seyedeh-Saba Ashrafmansouri
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Education/Qualifications

2011-2016 Ph.D in Chemical Engineering, Department of Chemical Engineering, Isfahan University of Technology, Isfahan, Iran.
Thesis: Experimental Investigation of Mass Diffusion Coefficient and Liquid-Liquid Extraction Process in Nanofluids
Supervisor: Prof. Mohsen Nasr Esfahany

2007-2010 M.Sc. in Chemical Engineering, School of Chemical and Petroleum Engineering, Shiraz University, Shiraz, Iran.
Thesis: Modeling Gas Solubility in Ionic Liquids with the SAFT-γ Group Contribution Method
Supervisor: Dr. Sona Raeissi

2003-2007 B.Sc. in Chemical Engineering**,** School of Chemical and Petroleum Engineering, Shiraz University, Shiraz, Iran.
Thesis: Modeling of CO_2 Solubility in Ionic Liquids
Supervisor: Dr. Sona Raeissi

Employment to Date/Work Experience

2016-present Faculty Member, Department of Chemical Engineering, University of Larestan (Larestan Higher Education Complex), Lar, Iran.

2017-2018 Director of Research and Technology Affairs, University of Larestan (Larestan Higher Education Complex), Lar, Iran.

2015 Visiting PhD researcher in Chemical Engineering, Chair of Separation Science and Technology, Department of Mechanical and Process Engineering, TU Kaiserslautern, Kaiserslautern, Germany.
Research Project: Influence of nanoparticles on micro-extraction process
Supervisor: Prof. Hans-Jorg Bart

2013-2014 Lecturer and Teaching Assistant, Department of Chemical Engineering, Isfahan University of Technology, Isfahan, Iran.

Other Experience/Activities

2009-2010 Member of Management Council of Energy and Environment Scientific Society of Shiraz University, Shiraz, Iran.

2007-2010 Member of Mehrpazhooh Group which is supported by Solar Energy Center and Premier Ideas Support Center of Shiraz University, Shiraz, Iran.

Languages Persian: native speaker, English: good, German: basic

Other Skills Engineering Softwares (MATLAB and Simulink, Aspen Hysys, …)

Research Interests Transport Phenomena, Thermodynamics, Nanotechnology, Ionic Liquids, Solar Energy

Publications

- Journal Papers

2017 Feilizadeh M., Soltaneih M., Karimi Estahbanati M.R., Jafarpur K., Ashrafmansouri S.S., Optimization of Geometrical Dimensions of Single-Slope Basin Solar Stills, Desalination 424, 159-168.

2016 Ashrafmansouri S.S., Willersinn S., Nasr Esfahany M., Bart H.-J., Influence of Silica Nanoparticles on Mass Transfer in a Membrane-based Microcontactor, RSC Advances 6, 19089-19097.

2016 Ashrafmansouri S.S., Nasr Esfahany M., Mass Transfer into/from Nanofluid Drops in a Spray Liquid–Liquid Extraction Column, AIChE Journal 62 (3), 852–860.

2016 Karimi Estahbanati M.R., Ahsan A., Feilizadeh M., Jafarpur K., Ashrafmansouri S.S., Feilizadeh M., Theoretical and experimental investigation on internal reflectors in a single-slope solar still, Applied Energy 165, 537–547.

2015 Ashrafmansouri S.S., Nasr Esfahany M., The Influence of Silica Nanoparticles on Hydrodynamics and Mass Transfer in Spray Liquid-Liquid Extraction Column, Journal of Separation and Purification Technology 151, 74–81.

2015 Ashrafmansouri S.S., Willersinn S., Nasr Esfahany M., Bart H.-J., Influence of Silica Nanoparticles on Mass Diffusion in a Membrane-Based Microcontactor, Chemie Ingenieur Technik 87 (8), 1054.

2014 Ashrafmansouri S.S., Nasr Esfahany M., Azimi G.H., Etesami N., Experimental Investigation of Water Self-Diffusion Coefficient and Tracer Diffusion Coefficient of Tert-Butanol in Water-Based Silica Nanofluids, International Journal of Thermal Sciences 86, 166-174.

2014 Ashrafmansouri S.S., Nasr Esfahany M., Mass Transfer in Nanofluids: a Review, International Journal of Thermal Sciences 82, 84-99.

2013 Shariati A., Ashrafmansouri S.S., Haji Osbuei M., Hooshdaran B., Critical Properties and Acentric Factors of Ionic Liquids, Korean Journal of Chemical Engineering 30 (1), 187-193.

2012 Ashrafmansouri S.S., Raeissi S., Modeling Gas Solubility in Ionic Liquids with the SAFT-γ Group Contribution Method, Journal of Supercritical Fluids 63, 81–91.

- Conference Papers

2015 Ashrafmansouri S.S., Willersinn S., Nasr Esfahany M., Bart H.-J., Influence of Silica Nanoparticles on Mass Diffusion in a Membrane-Based Microcontactor, Jahrestreffen der ProcessNet-Fachgemeinschaft Fluiddynamik und Trenntechnik, Bamberg, Germany.

2014 Ashrafmansouri S.S., Nasr Esfahany M., Azimi G., Etesami N., Experimental Investigation of Tracer Diffusion Coefficient of tert-Butanol in Water-based Silica Nanofluids, International Congress of Nanosciences and Nanotechnology (ICNN), Tehran, Iran.

2014 Ashrafmansouri S.S., Nasr Esfahany M., Azimi G.H., Etesami N., Experimental Investigation of Water Self-Diffusion Coefficient in Water-Based Silica Nanofluids, 5th International Conference of Nanostructures (ICNS5), Kish Island, Iran.

2010 Ashrafmansouri S.S., Jafarpur K., Sedigh Ardakani A., Feilizadeh M., Taghvaei H., Investigation of the Solar Still Due to the Desalination of Salty Waste Water, 1th National Conference of Energy and Environment (EERC 2010), Kerman, Iran.

2010 Ashrafmansouri S.S., Raeissi S., Modeling Gas Solubility in Ionic Liquids with the SAFT-γ Group Contribution Method, 14th International Symposium on Solubility Phenomena and Related Equilibrium Processes, Leoben, Austria.

2010 Shariati A., Ashrafmansouri S.S., Haji Osbuei M., Hooshdaran B., Critical Properties and Acentric Factors of Ionic Liquids, 14th International Symposium on Solubility Phenomena and Related Equilibrium Processes, Leoben, Austria.

2010 Karimi Estahbanati M.R., Jafarpur K., Feilizadeh M., Ashrafmansouri S.S., Sedigh Ardakani A., Single-Slope Solar Stills: Challenges in Calculating Input Solar Energy, International Conference on Water and Waste-Water Treatment, Isfahan, Iran.

2009 Ashrafmansouri S.S., Jafarpur K., Sedigh Ardakani A., Karimi Estahbanati M.R., Taghvaei H., Effect of Using Reflectors Inside a Basin Solar Still, The 6th International Chemical Engineering Congress and Exhibition (IChEC), Kish Island, Iran.

2009 Feilizadeh M., Soltanieh M., Jafarpur K., Ashrafmansouri S.S., Karimi Estahbanati M.R., A Methodology for Studying the Effect of Geometrical Dimensions of a Basin Type Solar Still, 5th Dubrovnik Conference on Sustainable Development of Energy, Water and Environment, Dubrovnik, Croatia.

2008 Feilizadeh M., Soltanieh M., Jafarpur K., Karimi, M.R., Ashrafmansouri S.S., Performance Comparison of Solar Stills with One and Two Condensing Surfaces: Modeling and Experiment, 12th Iranian Chemical Engineering Congress (IChEC12), Tabriz, Iran.

2008 Ashrafmansouri S.S., Bizhani M., Raeissi S., The Modeling of CO_2 Solubility in Ionic Liquids, 18th International Congress of Chemical and Process Engineering, Prague, Czech Republic.

2008 Feilizadeh M., Soltanieh M., Ashrafmansouri S.S., Karimi Estahbanati M.R., Investigation of the Internal Reflector application in Basin Solar Stills, Fuel, Energy and Environment National Congress, Tehran, Iran.

Patent

2008 Feilizadeh M., Karimi Estahbanati M.R., Ashrafmansouri S.S., Solar Still with Adjustable Internal and External Reflectors, 53649, Iran.

Academic Awards

2015 University of Kaiserslautern scholarship for research stay in Germany

2014 Fourth place article among 25 most downloaded International Journal of Thermal Science articles

2011 Third place in entrance exam of PhD degree, Department of Chemical Engineering, Isfahan University of Technology, Isfahan, Iran

2010 First place in the section "Inventions and Innovations" of the National Reforming Norms of Consumption Festival with Mehrpazhooh Group, Shiraz, Iran

2009 First place in the section "Inventions and Innovations" of the Second National Movement Festival with Mehrpazhooh Group, among more than 980 teams, Tehran, Iran (This festival was held by the Ministry of Science, Research and Technology of Iran)

2008 First place team (Mehrpazhooh Group) in the "Innovations and Inventions Exhibition" of the Higher Education Centers of Fars, Shiraz, Iran

2007 Fourth position in B.Sc.'s GPA among all B.Sc. students in Petrochemical Engineering (60 students), School of Chemical and Petroleum Engineering, Shiraz University, Shiraz, Iran

2007 Entering to the master's level as an outstanding student in Chemical Engineering **(**without entrance exam), School of Chemical and Petroleum Engineering, Shiraz University, Shiraz, Iran

References

Dr. Hans-Jorg Bart, Professor, Chair of Separation Science and Technology, Department of Mechanical and Process Engineering, TU Kaiserslautern, Kaiserslautern, Germany.
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Dr. Mohsen Nasr Esfahany, Professor, Chemical Engineering Department, Isfahan University of Technology, Isfahan, Iran
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