

PERSONAL INFORMATION

Ahmad Jamekhorshid



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Sex Male | Date of birth 06/08/1984 | Nationality Iran

POSITION

Assistant Professor of Chemical Engineering

WORK EXPERIENCE

(2014 - now)

Assistant Professor of Chemical Engineering

Faculty of Petroleum, Gas and Petrochemical Engineering, Persian Gulf University, Bushehr, Iran.

(2011 - 2014)

Lecturer

Faculty of Petroleum, Gas and Petrochemical Engineering, Persian Gulf University, Bushehr, Iran.

EDUCATION

(2009 - 2014)

Ph.D.

Tarbiat Modares University (Iran)

▪ Chemical Engineering

(2013 - 2014)

Visiting Researcher

The University of Auckland (New Zealand)

(2006 - 2009)

M.Sc.

Shiraz University (Iran)

▪ Chemical Engineering

(2002 - 2006)

B.Sc.

Shiraz University (Iran)

▪ Chemical Engineering

ADDITIONAL INFORMATION

Journal Papers

- A. Jamekhorshid, S. M. Sadrameli, R. Barzin, and M. M. Farid, "Composite of wood-plastic and micro-encapsulated phase change material (MEPCM) used for thermal energy storage," *Applied Thermal Engineering*, vol. 112, pp. 82-88, 2017.
- A. Mirahmad, S. Sadrameli, and A. Jamekhorshid, "A Comprehensive Study on a Latent Heat Thermal Energy Storage System and its Feasible Applications in Greenhouses," *Iranian Journal of Chemical Engineering*, vol. 13, pp. 33-45, 2016.
- A. Jamekhorshid, S. M. Sadrameli, and M. Farid, "A review of microencapsulation methods of phase change materials (PCMs) as a thermal energy storage (TES) medium," *Renewable and Sustainable Energy Reviews*, vol. 31, pp. 531-542, 2014. **(HOT PAPER)**
- A. Jamekhorshid, S. M. Sadrameli, and A. R. Bahramian, "Process optimization and modeling of microencapsulated phase change material using response surface methodology," *Applied Thermal Engineering*, vol. 70, pp. 183-189, 2014.
- A. Jamekhorshid and S. Sadrameli, "Application of phase change materials (PCMs) in maintaining

comfort temperature inside an automobile," *International Journal of Chemical and Molecular Engineering*, vol. 6, pp. 33-35, 2012.

- G. Karimi, A. Jamekhorshid, Z. Azimifar, and X. Li, "Along-channel flooding prediction of polymer electrolyte membrane fuel cells," *International Journal of Energy Research*, vol. 35, pp. 883-896, 2011.
- A. Jamekhorshid, G. Karimi, and I. Noshadi, "Current distribution and cathode flooding prediction in a PEM fuel cell," *Journal of the Taiwan Institute of Chemical Engineers*, vol. 42, pp. 622-631, 2011.

Projects

- Vice-Presidency for Science and Technology, "Assessment of Energy Efficiency and Environment for Bushehr Province," Grant No. 11/85406 (2016-2018).
- Iran National Science Foundation, "Synthesis of nano perovskite catalysts, in order to use in the combination of dry and partial oxidation reforming process of methane," Grant No. 94/S/44364 (2016-2018).
- Iran National Science Foundation, "The kinetic study of carbon dioxide hydrate formation in the presence of SDS and semiclathrate hydrate formation salts," Grant No. 95/S/44940 (2016-2018).
- Persian Gulf Science and Technology Park, "Design and Fabrication of a Thermal Energy Management Package for Stationary Cars Using Phase Change Materials," Grant No. P/94/101948 (2015-2016).

Conference Papers

- A. Jamekhorshid and A. Owji, "Investigation of using phase change materials in mass concrete," presented at the 2st National Conference of New Concrete Technologies, Rasht, Iran, 2018.
- Y. Yazdanpanah, A. A. Izadpanah, and A. Jamekhorshid, "The Influence Evaluation of Halogenated Inert Gases on Flammability Limit of Methane," presented at the 1st National Conference on Gas and Petrochemical Processes, Bojnourd, Iran, 2017.
- F. Ostovar, A. Jamekhorshid, and A. Azari, "Evaluation of Deep Eutectic Solvents Properties in Order to Use as Phase Change Materials," presented at the 1st National Conference on Gas and Petrochemical Processes, Bojnourd, Iran, 2017.
- O. Mohammadi and A. Jamekhorshid, "Optimization of Heat Exchangers Network Using the Combination of Two Algorithms," presented at the 1st Biennial Persian Gulf Oil, Gas and Petrochemical Conference, Boushehr, Iran, 2016.
- M. A. Haghshenas, A. Azari, and A. Jamekhorshid, "Optimization of sodium hypochlorite injection to the inlet seawater of Kavian Petrochemical Complex," presented at the 1st Biennial Persian Gulf Oil, Gas and Petrochemical Conference, Boushehr, Iran, 2016.
- A. Jamekhorshid, M. J. Mohammadi, H. Amirahmadi, and M. M. Farid, "Experimental Investigation of Thermal Energy Management inside an Automobile Using Phase Change Materials," presented at the The 9th International Chemical Engineering Congress & Exhibition (IChEC 2015), Shiraz, Iran, 2015.
- A. Jamekhorshid and N. Esmaeili, "Investigation of biomass resources in Bushehr province," presented at the Renewable Energy Conference, Tehran, Iran, 2015.
- A. Jahangiri, A. Roshan, and A. Jamekhorshid, "Conceptual design of production unit of syngas in an autothermal reactor," presented at the 5th National Conference of Chemical Applications in Advanced Technologies, Isfahan, Iran, 2015.
- M. Roshdi, M. Samipour, and A. Jamekhorshid, "Prediction of water flooding in PEM fuel cell using mathematical modeling of catalytic layer," presented at the 2nd Conference of Hydrogen and Fuel Cell, Tehran, Iran, 2012.
- A. Jamekhorshid and S. M. Sadrameli, "Microencapsulation of Phase Change Materials (PCMs) as a Thermal Energy Storage (TES) Medium: A Review," presented at the Proceedings of the 1st International Conference on Emerging Trends in Energy Conservation - ETEC, Tehran, Iran, 2011.
- S. Farajzadeh, A. Jamekhorshid, M. Hajheidari, M. Maleki, H. Aslannejad, and S. M. Sadrameli, "Energy audit of engineering building of Tarbiat Modares University," presented at the 1st National Conference of Energy and Environment, Kerman, Iran, 2010.
- A. Jamekhorshid, G. Karimi, and X. Li, "Current Distribution in a Polymer Electrolyte Membrane Fuel Cell Under Flooding Conditions," in ASME 2009 7th International Conference on Fuel Cell Science, Engineering and Technology, Newport Beach, California, USA, 2009.
- A. Jamekhorshid, F. Jafarpour, G. Karimi, and X. Li, "Electroosmotic Flow in PEM Fuel Cells with Variable Zeta Potential," in 5th International Chemical Engineering Congress and Exhibition, Kish Island, Iran, 2008.
- M. R. Rahimpour, B. A. Bahrami, and A. Jamekhorshid, "Simulation and modeling of Mitsubishi methanol reactor and comparison with Lurgi methanol reactor of Shiraz petrochemical complex," presented at the 11th Iranian Chemical Engineering Congress, Tehran, Iran, 2006.
- A. M. Alamdari, M. A. Hatami, and A. Jamekhorshid, "Kinetic of crystallization of Bisphenol A-Phenol in presence of industrial impurities," presented at the 11th Iranian Chemical Engineering Congress, Tehran, Iran, 2006.

Theses Supervision

- F. Ostovar, "Preparation of Acid-based Deep Eutectic Solvent as Phase Change Material," M.Sc., Faculty of Petroleum, Gas and Petrochemical Engineering, Persian Gulf University, 2018.
- M. Moshtagh, "An Experimental Investigation of Convective Heat Transfer of Slurry MEPCM in a Tube with Butterfly Tube Inserts," M.Sc., Faculty of Petroleum, Gas and Petrochemical Engineering, Persian Gulf University, 2018.
- M. Moghtaderpoor, "Lipid Extraction from Microalgae Using Pectinase," M.Sc., Faculty of Petroleum, Gas and Petrochemical Engineering, Persian Gulf University, 2016.