

## Curriculum Vitae

### Personal Particulars:

First Name: **Fatemeh**

Last Name: **Eslami**

Date of Birth: 1983, Shiraz, Iran

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### Education

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Sep 2009 – Aug 2014 **Ph.D. in Chemical Engineering**, Chemical & Materials Engineering Department, University of Alberta, Edmonton, Alberta, Canada

Sep 2005 – Nov 2007 **M.Sc. in Chemical Engineering**, in the field of Thermodynamics, Kinetics & Catalysis, Chemical & Petroleum Engineering Department, Sharif University of Technology, Tehran, Iran

Sep 2001 – Aug 2005 **B.Sc. in Chemical Engineering**, Chemical & Petroleum Engineering Department, Sharif University of Technology, Tehran, Iran

### Work Experience

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Feb 2016 – Present **Assistant Professor**, Chemical Engineering Department, Tarbiat Modares University, Tehran, Iran

Sep 2014 – Jan 2016 **Postdoctoral Fellow**, Chemical & Materials Engineering Department, University of Alberta, Edmonton, Alberta, Canada

Sep 2009 – Aug 2014 **Research and Teaching Assistant** in the Chemical & Materials Engineering Department, University of Alberta, Edmonton, Alberta, Canada

Oct 2007 – Aug 2009 **Process Engineer** in Delvarafzar Industrial Gases Company, Tehran, Iran

## Honors

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- Awarded Dr Kazemi Ashtiyani Award from National Elites Foundation
- Awarded Provost Doctoral Entrance Award from University of Alberta for two years
- First Class Honors & ranked 1st in B.Sc. studies, Sharif University of Technology
- Chosen as one of the intellectual talents in B.Sc. studies and admitted to the M.Sc. degree without entrance exam

## Publications

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- Asoodeh, A; Eslami, F; Sadrameli, S. M.; “Liquid–liquid Equilibria of Systems Containing Linseed Oil Biodiesel + Methanol + Glycerol: Experimental Data and Thermodynamic Modeling”, *Fuel*, 2019, 253, pp 460-473
- Mohammadpour, H; Sadrameli, S. M.; Eslami, F; Asoodeh, A; “Optimization of Ultrasound-Assisted Extraction of Moringa Peregrina Oil with Response Surface Methodology and Comparison with Soxhlet Method”, *Industrial Crops and Products*, 2019, 131, pp 106-116.
- Eslami, F; Elliott, J. A.W.; “Gibbsian Thermodynamic Study of Capillary Meniscus Depth”, *Scientific Reports*, 2019, 9, pp 657.
- Hosseini Hashemi, M. S.; Eslami, F; Karimzadeh, R; “Organic Contaminants Removal from Industrial Wastewater by CTAB Treated Synthetic Zeolite Y”, *Journal of Environmental Management*, 2019, 233, pp 785-792
- Pouralhosseini, S; Eslami, F; Elliott, J. A. W; Shaw, J; “Modeling the Phase Behaviour of Asphaltene +Toluene + Polystyrene Mixtures\_ A Depletion Flocculation Approach”, *Energy and Fuels*, 2016, 30 (2), pp 904-914.

- Eslami, F; Elliott, J. A.W.; “Role of Precipitating Solute Curvature on Microdrops and Nanodrops during Concentrating Processes: The Nonideal Ostwald–Freundlich Equation”, *Journal of Physical Chemistry. B*, 2014, 118 (50), pp 14675–14686.
- Eslami, F; Elliott, J. A.W.; “Stability Analysis of Microdrops during Concentrating Processes”, *Journal of Physical Chemistry. B*, 2014, 118(13), pp 3630–3641.
- Eslami, F; Elliott, J. A.W.; “Design of Microdrop Concentrating Processes”, *Journal of Physical Chemistry. B*, 2013, 117 (7), pp 2205–2214.
- Eslami, F; Elliott, J. A.W.; “Thermodynamic Investigation of the Barrier for Heterogeneous Nucleation on a Fluid Surface in Comparison with a Rigid Surface”, *Journal of Physical Chemistry. B*, 2011, 115, pp 10646–53.

#### Oral Presentations at Conferences

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- Asoodeh, A; Eslami, F; Sadrameli, S.M; “Experimental Investigation and Prediction of liquid – liquid Equilibria for System of Linseed Oil Biodiesel + Methanol + Glycerol Using UNIFAC thermodynamic Equation, 5th International Conference on Applied Research in Chemistry and Chemical Engineering focusing on local technologies, September 2018, Tehran, Iran
- Eslami, F; Elliott, J. A. W; "Meniscus Depth in Capillaries under the Influence of Gravity", 31st Conference of European Colloid and Interface Society, Sep 2017, Spain, Madrid
- Kouhestani, F; Karimzadeh, R., Eslami, F; "Adsorption of water from real diesel by modified clinoptilolite zeolite", 4rd International Conference of Recent Innovations in Chemistry and Chemical Engineering, September 1396, Tehran, Iran
- Dehghani Kazerouni, E; Karimzadeh, R; Eslami, F; "Asphaltene Extraction from vacuum bottom residue by means of industrial solvents of n-heptane,406 and 410", 4 rd International Conference of Recent Innovations in Chemistry and Chemical Engineering, September 1396, Tehran, Iran
- Hosseini Hashemi, M; Eslami, F; Karimzadeh, R.; " Synthesis of Zeolite Y from Bentonite", 3<sup>rd</sup> International Conferece of Recent Innovations in Chemistry and Chemical Engineering, September 1395, Tehran, Iran
- Elliott, J. A. W; Zargarzadeh, L; Eslami, F.; “Thermodynamics of Fluid Interfaces in Pores”, 8<sup>th</sup> International Conference on Porous Media (InterPore), May 2016, Cincinatti, Ohio, USA

- Eslami, F; Elliott, J. A.W.; “Stability Analysis of Microdrop Shrinkage during Concentrating Processes”, 87<sup>th</sup> ACS Colloids and Surface Science Symposium, June 2013, University of California, Riverside, USA
- Eslami, F; Elliott, J. A.W.; “Thermodynamics of Microdrop Concentrating Processes”, Surfactants In Solutions(SIS), June 2012, Edmonton, Alberta, Canada
- Eslami, F; Elliott, J. A.W.; “Design of Micro Droplet Concentrating Processes in Cryobiology”, Extreme Cryo Annual Meeting, February 2012, Edmonton, Alberta, Canada
- Eslami, F; Elliott, J. A.W.; “Why is Nucleation Easier on a Soft Surface?”, 85<sup>th</sup> ACS Colloids and Surface Science Symposium, June 2011, Montreal, Quebec, Canada

### Poster Presentations at Conferences

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- Dinari, S; Eslami, F; Karimzadeh, R, “Study of the Effect of Natural Zeolite Particles on the Instability of Oil in Water Emulsions”, The National Conference on Treatment of Water Air and Soil (TWAS2018), July 2018, Tehran, Iran
- Eslami, F; Elliott, J. A.W.; “Role of Precipitating Solute Curvature on Microdrops and Nanodrops during Concentrating Processes: The Non-ideal Ostwald–Freundlich Equation”, 15<sup>th</sup> Conference of International Association of Colloid and Interface Scientists (IACIS), May 2015, Mainz, Germany
- Eslami, F; Elliott, J. A.W.; “Design of Microdrop Concentrating Processes: Stability Analysis Point of View”, Canadian Chemical Engineering Conference, Oct 2012, Vancouver, British Columbia, Canada

### Membership

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- European colloid and Interface Society (ECIS)
- International Association of Colloid and Interface Scientists (IACIS)
- American Chemical Society (ACS)
- Iranian Chemical Society