



## Mostafa Vatani

Assistant Professor

College: Faculty of Engineering

Department: Chemical Engineering

### Education

Degree	Graduated in	Major	University
BSc	1388	Chemical Engineering	University of Kashan
MSc	1390	Chemical Engineering	University of Kashan
Ph.D	1396	Chemical Engineering	Amirkabir University of Technology

### Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
Faculty of Engineering	Fixed-term Lecturere	On Contract	Full Time	

### Work Experience

مشاور انجمن علمی مهندسی شیمی دانشگاه کاشان 1399-1400

معاون گروه مهندسی شیمی دانشگاه کاشان، 1401-1403

معاون فرهنگی دانشجویی دانشکده مهندسی، اسفند 1402 تاکنون

### Papers in Journals

1. [Mostafa Vatani, Nima Gharib, Kyong Yop Rhee, Soo-Jin Park, Simulating of effective conductivity for graphene-polymer nanocomposites, Scientific Reports, Vol. 13, pp. 1, 2023 04 11, SCOPUS, JCR.](#)
2. [Mostafa Vatani, Ahmadreza Raisi, Gholamreza Pazuki, Three-component mixed matrix membrane containing \[Hmim\]\[PF6\] ionic liquid and ZSM-5 nanoparticles based on poly \(ether-block-amide\) for the pervaporation process, Journal of Molecular Liquids, 2019.](#)
3. [Mostafa Vatani, Ahmadreza Raisi, Gholamreza Pazuki, Mixed matrix membrane of ZSM-5/poly \(ether-block-amide\)/polyethersulfone for pervaporation separation of ethyl acetate from aqueous solution, Microporous & Mesoporous Materials, 2018.](#)

4. Mostafa Vatani, Ahmadreza Raisi, Gholamreza Pazuki, Pervaporation separation of ethyl acetate from aqueous solutions using ZSM-5 filled dual-layer poly (ether-block-amide)/polyethersulfone membrane, RSC Advances, 2018.
5. Ashish M. Gujarathi, Gholamreza Vakili, & Nezhaad, Mostafa Vatani, Optimization of Process Design Problems using Evolutionary Differential Evolution Algorithm, The Journal of Engineering Research, 2016.
6. Gholamreza Vakili, Nezhaad, Mostafa Vatani, Rashid Al, Maamari, Experimental and modeling investigations of the viscosity of crude oil binary blends: new models based on the genetic algorithm method, The Journal of Engineering Research, 2015.
7. Babak Mehmandoust, Ehsan Sanjari, Mostafa Vatani, An efficient reliable method to estimate the vaporization enthalpy of hydrocarbons according to the normal boiling temperature and critical properties, Journal of Advanced Research, 2014.
8. Yasser Zare, Ali Daraei, Mostafa Vatani, Parya Aghasafari, An Analysis of Interfacial Adhesion in Nanocomposites from Recycled Polymers, Computational Materials Science, 2014.
9. Gholamreza Vakili, & Nezhaad, Mostafa Vatani, Ashish Gujarathi, Application of Genetic Algorithm to Calculation of Three-Suffix Margules Parameters in Ternary Extraction Ionic Liquid Systems, International Journal of Thermodynamics, 2014.
10. Gholamreza Vakili, & Nezhaad, Mostafa Vatani, Morteza Asghari, Calculation of the Binary Interaction and Non-Randomness Parameters of the NRTL, NRTL1 and NRTL2 Models Using Genetic Algorithm for Ternary Ionic Liquid Systems, Chemical Engineering Communications, 2013.
11. Mostafa Vatani, Morteza Asghari, Gholamreza Vakili, & Nezhaad, Application of Genetic Algorithm to the calculation of parameters for NRTL and Two-Suffix Margules models in ternary extraction ionic liquid systems, Journal of Industrial and Engineering Chemistry, 2012.
12. Gholamreza Vakili, & Nezhaad, Mostafa Vatani, Morteza Asghari, Ibrahim Ashour, Effect of temperature on the physical properties of 1-butyl-3-methylimidazolium based ionic liquids with thiocyanate and tetrafluoroborate anions, and 1-hexyl-3-methylimidazolium with tetrafluoroborate and hexafluorophosphate anions, The Journal of Chemical Thermodynamics, 2012.
13. Mostafa Vatani, Morteza Asghari, Gholamreza Vakili, & Nezhaad, Application of Genetic Algorithm to Parameter Estimation in Liquid-Liquid Phase Equilibrium Modeling, Journal of Mathematics and Computer Science, 2012.