



Zahra Khoubi-Arani

Assistant Professor

College: Faculty of Polymer Engineering

Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
(not set)	(not set)	On Contract	Full Time	

Papers in Conferences

1. Z. Khoubi و Arani, Mina Alizadehaghdam, Farhang Abbasi.Quantification of Equivalent Effect of Cooling Rate and Diluent on the Crystal Thickness of Poly(3-hexylthiophene).6th National Seminar on Polymer (HAMPA 1400).October, 2021.
2. Z. Khoubi و Arani, Mina Alizadehaghdam, Farhang Abbasi.Effect of Cooling Rate on the Ideal Heat of Fusion of Poly(3-hexylthiophene) Based on Flory's Equation.6th National Seminar on Polymer (HAMPA 1400).October, 2021.
3. Z. Khoubi , Arani , Mina Alizadehaghdam ,Crystallization Temperature of Diluted Polymers: Dependency on Cooling Rate and Composition ,15th International Seminar on Polymer Science and Technology (ISPST 2022) ,November, 2022.
4. Mina Alizadehaghdam, Z. Khoubi ,& Arani ,Molecular weight and dispersity competition to govern the crystalline features of poly(3-hexylthiophene) ,15th International Seminar on Polymer Science and Technology (ISPST 2022) ,November, 2022.
5. S. Taghizadeh, Mina Alizadehaghdam, Z. Khoubi ,& Arani ,Diluent elimination may impact the crystalline structure of the polymer in a polymer-diluent system ,15th International Seminar on Polymer Science and Technology (ISPST 2022) ,November, 2022.

Papers in Journals

1. Z. Khoubi و Arani, M. Alizadehaghdam, F. Abbasi.Straightforward Determination of Equilibrium Heat of Fusion and Interaction Parameter for a Polymer-Diluent System.Thermal Science and Engineering Progress.September 2023.
2. S. Mohammadzadeh , Komuleh, Z. Khoubi , Arani, Sh. Rahmani,A Review on Shape Memory Polyurethane Nanocomposites: Focusing on the Most Important Used Nanofillers,Polymer Engineering and Science,September 2023.
3. Z. Khoubi ,& Arani,Improvement of compressible regular solution model using Sanchez-Lacombe equation of state for phase behavior prediction of polymer blends,Polymer Bulletin,March 2023.
4. Z. Khoubi ,& Arani,A comprehensive review on polystyrene/waste rubber blends: Effective

parameters on mechanical properties, *Polymer Engineering and Science*, January 2024.

5. Z. Khoubi, & Arani, M. Alizadehaghdam, Melting Point Depression Approach: Effects of Equation Format on the Estimated Flory-Huggins Interaction Parameter, *Thermochimica Acta*, February 2023.

6. Z. Khoubi, & Arani, N. Mohammadi, Heterogeneity assisted damping enhancement of low and high frequency mechanical waves in a soft polymer nanocomposite, *Industrial & Engineering Chemistry Research*, 2017.

7. Z. Khoubi, & Arani, N. Mohammadi, S. Ghasemirad, Concurrent determination of two opposite phase transitions in a soft polymer nanocomposite by rheology and their theoretical evaluations, *European Polymer Journal*, 2016.

8. Z. Khoubi, & Arani, N. Mohammadi, M. R. Moghbeli, P. Pötschke, Quantifying the synergistic effect of dispersion state and interfacial adhesion contributions on impact strength of core shell rubber-toughened glassy polymers, *RSC Advances*, 2016.

9. Z. Khoubi, & Arani, S. R. Gaffarian, G. Mir Mohammad Sadeghi, Synthesis of very flexible elastomeric polyurethane films with high elasticity and evaluation of their structural permanency, *Journal of Macromolecular Science, Part A: Pure and Applied Chemistry*, 2014.

10. • Z. Khoubi et al., Simulation of styrene free radical polymerization over bi-functional initiators using Monte Carlo simulation method and comparison with mono-functional initiators, *Polymer Science, Series B: Polymer Chemistry*, 2010.

11. A Review on Shape Memory Polyurethane Nanocomposites: Focusing on the Most Important Used Nanofillers, *Polymer Engineering and Science*, 1 11 2023.

12. A Review on Shape Memory Polyurethane Nanocomposites: Focusing on the Most Important Used Nanofillers, *Polymer Engineering and Science*, 1 11 2023.