

دکتر زهرا خوبی آرانی

استادیار

دانشکده: مهندسی پلیمر



### سوابق تحصیلی

مقطع تحصیلی	سال اخذ مدرک	رشته و گرایش تحصیلی	دانشگاه
کارشناسی	۱۳۸۷	مهندسی پلیمر، گرایش صنایع پلیمر	دانشگاه صنعتی امیرکبیر
کارشناسی ارشد	۱۳۸۹	مهندسی پلیمر، گرایش صنایع پلیمر	دانشگاه صنعتی امیرکبیر
دکترای تخصصی	۱۳۹۵	مهندسی پلیمر	دانشگاه صنعتی امیرکبیر

### اطلاعات استخدامی

محل خدمت	عنوان سمت	نوع استخدام	نوع همکاری	پایه
دانشگاه صنعتی سهند		پیمانی	تمام وقت	

### سوابق اجرایی

سرپرست معاونت دانشکده مهندسی پلیمر، از 1401/02/07 تا 1401/08/30

رئیس اداره امور استعدادهای درخشان، از 1402/07/03 تاکنون

### موضوعات تدریس تخصصی

خواص و کاربرد پلیمرهای طبیعی (کارشناسی)

طیف سنجی پیشرفته (کارشناسی ارشد)

مواد پلیمری پیشرفته (کارشناسی ارشد)

مقالات در همایش ها

1. 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. 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

مقالات در نشریات

1. 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. Arani. Recycling of Waste Tires. Iran Polymer Technology; Research and Development. 2023
3. Arani. Semi-Experimental Methods for Determination of Flory-Huggins Interaction Parameter in Polymeric Mixtures: A Review. Iran Polymer Technology; Research and Development. 2022
4. Arani, Sh. Rahmani. Electrospinning of Cellulose: Methods and Applications. Iran Polymer Technology; Research and Development. 2021
5. Arani. A Review on Measurement Techniques of Elongational Viscosity for Polymeric Fluids. Iran Polymer Technology; Research and Development. 2020
6. 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
7. 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
8. Z. Khoubi, & Arani, A comprehensive review on polystyrene/waste rubber blends: Effective parameters on mechanical properties, Polymer Engineering and Science, January 2024
9. Z. Khoubi, & Arani, M. Alizadehaghdam, Melting Point Depression Approach: Effects of Equation Format on the Estimated Flory-Huggins Interaction Parameter, Thermochimica Acta, February 2023
10. 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
- 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
- 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
- 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
- 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

## پایان نامه ها

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1. A Review on Measurement Techniques of Elongational Viscosity for Polymeric Fluids
2. Effect of different parameters on the duration of degassing process in the production of high voltage cables
3. Investigation the performance of paving blocks produced with polymer waste
4. A kinetic study of radical bulk polymerization of styrene in the presence of recycled rubber
5. The measurement of the crystallinity of polymers by DSC