



## Hossein Roghani-Mamaqani

Professor

College: Faculty of Polymer Engineering

### Education

| Degree   | Graduated in | Major               | University  |
|----------|--------------|---------------------|---|
| BSc      | 2007         | Polymer Engineering | Amirkabir University of Technology (Tehran Polytechnic) |
| MSc      | 2009         | Polymer Engineering | Amirkabir University of Technology (Tehran Polytechnic) |
| Doctoral | 2013         | Polymer Engineering | Amirkabir University of Technology (Tehran Polytechnic) |

### Employment Information

| Faculty/Department              | Position/Rank  | Employment Type | Cooperation Type | Grade |
|---------------------------------|--|-----------------|------------------|-------|
| Sahand University of Technology | Academic staff at the Faculty of Polymer Engineering | Certain         | Full Time        |       |

### Awards

- Outstanding researcher of Iran by Ministry of Science, Research, and Technology in 2023
- Recognized researcher at Sahand University of Technology in 2023
- Iran's scientific elite by Iran Science Elites Federation in 2023
- Recognized educational academic staff of Sahand University of Technology in 2023
- Recognized researcher at Sahand University of Technology in 2022
- Polymer Chemistry Emerging Investigator in 2022 by Polymer Chemistry (RSC)
- Iran Academy of Science prize as Prominent Young Researcher of Iran in Chemical Engineering in 2022
- Recognized researcher at Sahand University of Technology in 2021

- Iran's scientific elite by Iran Science Elites Federation in 2021 (Rank A)
- Recognized researcher at Sahand University of Technology in 2020
- Recognized researcher in East Azarbaijan Province in 2020
- Recognized researcher at Sahand University of Technology in 2019
- Recognized young assistant professor prize nomination by National Elite Foundation in 2016 (Dr. Kazemi-Ashtiani Prize)
- Iran's Recognized PhD Student by Ministry of Science in 2013
- Best Presentation Award at the International Seminar on Polymer Science and Technology in 2012
- Recognized PhD Student by National Elite Foundation in 2011-2013
- Highly Intelligent Student in PhD course by Amirkabir University of Technology Talented Student Association in 2010-2013
- The First Rank Researcher of Polymer Engineering by Amirkabir University of Technology in 2010
- Highly Intelligent Accepted student in PhD Exam by Amirkabir University of Technology Talented Student Association in 2009
- Highly Intelligent Student in MSc course by Amirkabir University of Technology Talented Student Association in 2008-2009

## Subjects Taught

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- General chemistry (BSc)
- Polymer Chemistry (BSc)
- Adhesives, resins, and foams (BSc)
- Advanced physical chemistry of polymers (MSc)
- Surface chemistry (MSc)
- Polymerization process engineering (MSc)
- Advanced synthesis of polymers (PhD)
- Advanced polymers: Self-healing materials (PhD)
- Advanced polymers: Self-cleaning materials (PhD)
- Advanced synthesis and kinetics of polymerization (PhD)
- Smart Polymer Composites (PhD)
- Colloids and Interfaces (PhD)

## Papers in Conferences

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1. S. Saeidi, H. Mardani, H. Roghani, Mamaqani, M. Salami, Kalajahi. Preparation of degradable nanogels containing trithio group for lithography. 7th National Seminar on Polymer. Gorgan. 2023 11 15.
2. M. Abdollahi, H. Roghani, Mamaqani, K. Asadpour, Zeinali, M. Salami, Kalajahi. Investigating the electrochromic properties of Rhodamine B. 7th National Seminar on Polymer. Gorgan. 2023 11 15.
3. A. Sabri, H. Mardani, S. Talebi, H. Roghani, Mamaqani. Smart lithography using polymer nanoparticles. 7th National Seminar on Polymer. Gorgan. 2023 11 15.
4. A. Motalebnejad و سایر. Investigating phase separation of polymer solution with temperature using light-responsive smart polymer. 7th National Seminar on Polymer. Gorgan. 2023 11 15.

5. K. Maasoumi, H. Mardani, H. Roghani , Mamaqani, M. Salami , Kalajahi.Preparation of thermochromic anti-counterfeit polymer ink.γth National Seminar on Polymer.Gorgan.۲۰۲۳ ۱۱ ۱۵.
6. H. Mardani, H. Roghani ۹ Mamaqani.Regulation of white light emission in colloidal polymer particles by using and controlling fluorescence resonance energy transfer mechanism.γth National Seminar on Polymer.Gorgan.۲۰۲۳ ۱۱ ۱۵.

### Papers in Journals

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1. Hanieh Mardani, Sana Mehrbakhsh, Sina Sheikhzadegan, Milad Babazadeh , Mamaqani, Hossein Roghani , Mamaqani,Colloidal polymer nanoparticles as smart inks for authentication and indication of latent fingerprints and scratch,ACS Applied Materials & Interfaces,Vol. 16,pp. 1605-1615,2024.
2. Dynamic Anticounterfeiting and Design of Chemical Sensors from Fluorescein-Doped Nanoprecipitated Colloidal Polymer Nanoparticles,Journal of Materials Chemistry C,Vol. 12,pp. 545–555,2024.
3. Niloofar Asadi , Zaki, Hanieh Mardani, Hossein Roghani , Mamaqani, Feng Wang,Stimuli-induced adjustment of spatial distribution of fluorescence resonance energy transfer dyads in smart polymers,Coordination Chemistry Reviews,Vol. 500,pp. 215518,2024.
4. A review on polydopamine as an efficient material in different components of rechargeable ion batteries,Journal of Energy Storage,Vol. 79,pp. 110170,2024.
5. Zahra Abousalman , Rezvani, Ahmed Refaat, Pouya Dehghankelishadi, Hossein Roghani , Mamaqani, Lars Esser, Nicolas H Voelcker,Insights into Targeted and Stimulus-Responsive Nanocarriers for Brain Cancer Treatment,Advanced healthcare materials,pp. e2302902,2024.