

Curriculum Vitae

Personal Information

- **Full Name:** Mehrdad Falamarzi Askarani
- **Date of Birth:** 26 July 1993
- **Email:** mr.m.falamarzi@gmail.com
- **Alternative Email:** mehrdad.falamarzi.askarani@temple.edu
- **Link to Google Scholar Profile** [Google Scholar](#)

Education and Employment

- **PhD student in Physical Chemistry** (2022-present)
Temple University, Philadelphia, USA
Advisor: Prof. Eric Borquet
- **Research Assistant (remote)** (2018-2019)
Kinetic and Catalyst Research Lab, Department of Chemistry, Sharif University of Technology
Employer : Prof. Mohammad Reza Gholami
- **M. Sc. in Physical Chemistry (GPA: 3.40/4.0)** (2015-2018)
Sharif University of Technology, Tehran, Iran
Thesis: Synthesis and characterization of MOF-based metal nano-oxides and investigation of their catalytic activity.
Advisor: Prof. Mohammad Reza Gholami
- **B. Sc. in Applied Chemistry (GPA: 3.63/4.0)** (2011-2015)
University of Mazandaran, Mazandaran, Iran
Thesis: Electric double-layer capacitors (supercapacitors).
Advisor: Dr. Saeed Yeganeqi

Publications

- Elham Akbarzadeh, **Mehrdad Falamarzi**, and Mohammad Reza Gholami. "Synthesis of M/CuO (M= Ag, Au) from Cu based Metal Organic Frameworks for efficient catalytic reduction of p-nitrophenol." *Materials Chemistry and Physics* 198 (2017): 374-379.
- **Mehrdad Falamarzi**, Elham Akbarzadeh, and Mohammad Reza Gholami. "Zeolitic imidazolate framework-derived Ag/C/ZnO for rapid reduction of organic pollutant." *Journal of the Iranian Chemical Society* 16.5 (2019): 1105-1111.

Teaching and Talk Experiences

- **Chemistry & Physics & Mathematics Tutor**, non-profit centers, *Isfahan* (2011-Present)
- **Talk on Losartan**, *Sharif University of Technology* (2017)
- **Physical Chemistry TA**, *University of Mazandaran* (2014)
- **Talk on Microscopes**, *Sharif University of Technology* (2013)

Projects

- Fe-Metal organic framework and adding noble metals for improving the catalytic activity.
- Hetero-structure Core/Shell BiVO₄/BiOI p-n Junction for photocatalytic activity.
- Co₃O₄/ZnO nanocomposite and adding noble metal to boost catalytic activity.
- In situ synthesis of silver supported nonporous ZIF-67.

Skills

- **Computational Software:** *ChemDraw, HyperChem, Matlab, Python*
- **Experimental Techniques:** *FT-IR, GC, UV, SEM, XRD, Sample preparation, Purification*
- **Languages:** *Persian (native), English (IELTS score: 6.5)*

Honors & Awards

- **3th** top student in M.Sc., *Sharif University of Technology* (2017)
- Ranked **67th** of 33000 in M.Sc. National Entrance Exam (2015)
- **5th** top student in B.Sc. (among 120 undergraduate students), *University of Mazandaran* (2015)
- Awarded as a top student, *Harati High school* (2009)

Selected Courses

Physical Chemistry, Structure of Catalyst, Quantum Chemistry, Spectroscopy, Pharmaceutical Chemistry, Separation and Identification of Organic Compound.

Research Interests

- Catalyst
- Surface science
- Spectroscopy
- Material chemistry

References

- **Prof. Mohammadreza Gholami**, *Department of Chemistry, Sharif University of Technology*, E-mail: gholami@sharif.edu
- **Prof. Mahmood Tajbakhsh**, *Department of Chemistry, University of Mazandaran*, E-mail: tajbakhsh@umz.ac.ir
- **Prof. Shahrbanoo Rahman Setayesh**, *Department of Chemistry, Sharif University of Technology*, E-mail: setayesh@sharif.edu