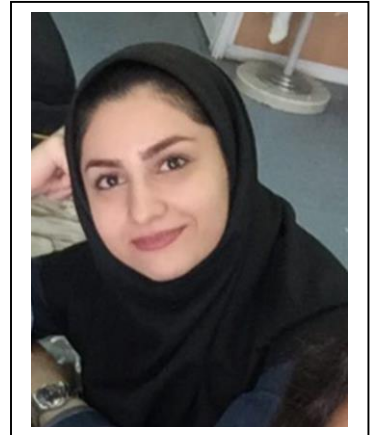


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Sharif University of Technology

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Education

Since 2017

PhD Candidate: Major: Nanoscience and Nanotechnology

Sharif University of Technology, Tehran, Iran.

Institute for Nano Science and Nanotechnology

Thesis: Design and Structural Modification of ZnO Nanorods/electrospun Nanofibrous Mat for Photocatalytic Degradation of Organic Pollutants with Simultaneous H₂ Evolution

Supervisors: Dr. A. Moshfegh (Phys. Dept.) and Dr. H. Bagheri (Chem. Dept.)

Advisor: Dr. M. Samadi

(18.19 /20) (GPA : 3.86/4.00) (The Second Rank Student)

2015-2017

M.Sc. Major: Nanofibrous Structures Engineering

Amirkabir University of Technology, Department of Textile Engineering, Tehran, Iran.

Thesis: Fabrication Feasibility of PEDOT/Graphene/MnO Composite Nanofibrous Electrode by Electrospinning for Flexible Supercapacitor (20 / 20)

Supervisors: Dr. M. Latifi , Dr. R. Bagherzadeh

Advisor: Dr. M. Javanbakht

(19.34 /20) (GPA : 4.00/4.00) (The First Rank Student)

2011-2015

B.Sc. Major1: Textile Science and Engineering

Amirkabir University of Technology, Department of Textile Engineering, Tehran, Iran.

Thesis: Investigating Effect of Hybrid Structures (Yarn Count) on the Tensile Properties of Braid (20 / 20)

Supervisors: Professor M. Safar Johari , H. Dabiryan

(18.04 /20) (GPA : 3.69/4.00) (The First Rank Student)

Major2: Industrial Engineering (20 Courses)

Amirkabir University of Technology, Department of Industrial Engineering, Tehran, Iran.

2006-2010

Mathematics Diploma, Behesht High School, Tehran, Iran.
(The First Rank Student)

Research Interests

- **Dual functional photocatalysis**
- **Photocatalytic degradation of organic pollutants with simultaneous H₂ evolution**
- **Piezophototronics**
- **Wastewater treatment**

Awards and Honors

- Iran National Elites Foundation Scholarship for Top Talents (2017-2021)
- Entrance to PhD without Entrance exam (2017)
- Entrance to master of science without Entrance exam (2015)
- First class honors in Textile Engineering Faculty for postgraduate studies (2017)
- First class honors in Textile Engineering Faculty for postgraduate studies (2015)

Skills & Experiences

- **Analysing XRD, SEM, UV-Vis, TGA, XPS and BET**
- **Lab Skills:** Working with Photocatalytic setup, Polymeric solution preparation process and electrospinning deposition technique
- **MATLAB, AutoCAD, Blender, Illustrator, Fortran, Microsoft Project and Office**
- **English (MSRT Degree)**
- Experienced in Institute for Nanoscience and Nanotechnology's laboratory as Electrospinning operator (June 2018 – March 2019)
- Experienced part time as R&D engineer in Mahbad Milan company (July 2016 – February 2020)
- Experienced in a R&D project in Padjameh company (August 2016 – December 2016)
- Water purification with capacitive deionization (CDI) process, Iran's National Elites Foundation (February 2019- November 2019)
- Flexible nanofibrous piezoelectric sensors, Iran's National Elites Foundation (November 2019 – August 2020)

Teaching Experience

- Teaching Assistant, General Physics Lab I, Physics Department, Sharif University of Technology, (September 2018 – June 2021)

Community Involvement

- Conference Assistant, Member of the Executive Committee, 7th International Conference on Nanostructures (ICNS7)
- Conference Assistant, Member of the Executive Committee, 8th International Conference on Nanostructures (ICNS8)

Publications

- Amene Naseri, **Ghazale Asghari Sarabi**, Moeasae Samadi, Mahdieh Yousefi, Mahdi Ebrahimi, Alireza Moshfegh “Recent Advances on Dual-Functional Photocatalytic Systems for Combined Removal of Hazardous Water Pollutants and Energy Generation”, Res. Chem. Intermed., (2021), (Accepted).
- Amene Naseri, **Ghazale Asghari Sarabi**, Moeasae Samadi, Mahdieh Yousefi, Mahdi Ebrahimi, Alireza Moshfegh “Dual Functional Photocatalysis: Simultaneous Environmental Remediation and Energy Production”, In Photocatalysis Reference Book, Book Chapter, (2021), (Springer– Nature).
- **Ghazale Asghari Sarabi**, Roohollah bagherzadeh, “Conductive nanofibrous materials for supercapacitors”, In Engineered Polymeric Fibrous Materials, Book Chapter, (2021), (Elsevier).
- **Ghazale Asghari Sarabi**, Alireza Moshfegh, Habib Bagheri, Morasae Samadi, "Disinfection of the Water Borne Pathogens of Staphylococcus aureus by Photocatalysis Process using ZnO Nanorods/PAN Electrospun Nanofibers" 8th International Conference on Nanostructures Nanostructures (ICNS8), 20th-22th of April 2020.
- **Ghazale Asghari Sarabi**, Masoud Latifi, Roohollah Bagherzadeh, “Synthesis of Conductive and Ultrafine MnO₂ Nanofibers and MnO₂/RGO Composite Nanofibers“, 11th National Conference of Textile Engineering, 9th-10th May 2018.

- **Ghazale Asghari Sarabi**, Masoud Latifi, Roohollah Bagherzadeh, "Align and random electrospun mat of PEDOT:PSS and PEDOT:PSS/RGO" AIP Conference Proceedings, 1920, 020045, 2018.
- **Ghazale Asghari Sarabi**, Majid Safar Johari, Hadi Dabiryan, "Investigating Effect of Hybrid Structures (Yarn Count) on the Tensile Properties of Braid", 10th National Conference of Textile Engineering, 26th-28th of April 2016.

Languages

- Persian : Native
- English : Upper-Intermediate

References

- | | |
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| • Habib Bagheri | bagheri@sharif.edu |
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| • Masoud Latifi | latifi@aut.ac.ir |
| • Roohollah Bagherzadeh | bagherzadeh_r@aut.ac.ir |
| • Azam Irajizad | iraji@sharif.edu |
| • Mohammad Mahdi Ahadian | ahadian@sharif.edu |