

Nafiseh Bolghanabadi

Address: Nanostructure and Advanced Materials Lab (CNAM), Department of Materials Science and Engineering, Sharif University of Technology (SUT), Azadi Ave., P. O. Box 11155-9466, Tehran, Iran
Email: Nbolghanabadi72@gmail.com
Website: CNAM.ir/students.html
Tel: (+98)(21) 66165264

PROFESSIONAL SUMMARY

Currently working at the department of material science and engineering, Sharif university of Technology. Researcher in the field of, Nanoparticle synthesis, thermoelectric materials, electrocatalysts and Batteries. current projects: “Enhanced electrochemical performance and thermal stability of hetropolyoxometalat coated Ni rich cathode toward Li-ion battery”

EDUCATION

09/2020 – Present

Sharif University of Technology (SUT) | Tehran, Iran

PhD Candidate in Materials Science and Engineering

Supervisor: **Professor A. Simchi, Professor KH. Sadrnejad**

Thesis Title: Enhanced electrochemical performance and thermal stability of hetropolyoxometalat coated Ni rich cathode toward Li-ion battery

08/2016 – 08/2019

Ferdowsi University of Mashhad (FUM) | Mashhad, Iran

MSc in Materials Science and Engineering

PROFESSIONAL EXPERIENCES

05/2020 - present

Teaching Assistant | Sharif University of Technology (SUT), Tehran, Iran

- Gave tutorials on the following courses to undergraduate students:
 - Principles of Materials Science and Engineering, Sharif University of technology
 - Thermodynamic, Sharif University of technology
 - Mechanical properties of materials, Sharif University of technology

05/2022 to 07/2022

Instructor | Boot Camp by Sino Summer School

Designing and presenting a short course on energy storage systems. *During this course, All applications on the energy storage systems have been covered.*

09/2016 to 09/2019

Research Fellow | Material science and engineering, Mashhad.

Working on a research project titled: Effect of thickness on the microstructural characteristics and thermoelectric properties of Bi₂Te₃ component (n type) fabricated using mechanical alloying (MA) and spark plasma sintering method (SPS), Supervisor: **Dr. S.A. Sajjadi, Dr A. Babakhani**

08/2014 – 05/2016

Working on a research project titled: Effect of temperature on electrochemistry properties of Pb-Sn-Ca cathode of lead- acid battery, Supervisor: **Dr. H. Moayed**

CORE COMPETENCES

- **Software:**
X'Pert HighScore Analytical XRD Software; Nova Software for Autolab instruments; Origin; BTSDA; general use of office suites.
- **Human Languages:** *Persian (Native), English*

PUBLICATIONS

1. **Bolghanabadi, Nafiseh, et al.** "Effects of Synthesis Parameters and Thickness on Thermoelectric Properties of Bi₂Te₃ Fabricated Using Mechanical Alloying and Spark Plasma Sintering." *Journal of Electronic Materials* 50.3 (2021): 1331-1339.
2. **Hamawandi, Bejan, Hamta Mansouri, Sedat Ballikaya,, Nafiseh Bolghanabadi,, Seyed Abdolkarim Sajjadi, and Muhammet S. Toprak.** "A comparative study on the thermoelectric properties of bismuth chalcogenide alloys synthesized through mechanochemical alloying and microwave-assisted solution synthesis routes." *Frontiers in Materials* 7 (2020): 569723

CONFERENCES

1. **Nafiseh Bolghanabadi, Seyed Abdolkarim Sajjadi, Effects of Thickness on Thermoelectric Properties of Bi₂Te₃ Fabricated Using Mechanical Alloying and Spark Plasma Sintering, 7st IMAT International Chemistry Congress, 20-28 Jul. 2018, Iran University of Science & Technology, Tehran, Iran.**
2. **Nafiseh Bolghanabadi, Seyed Abdolkarim Sajjadi, Effects of SPS temperature on Thermoelectric Properties of Bi₂Te₃ Fabricated Using Mechanical Alloying and Spark Plasma Sintering, 7st IMAT International Chemistry Congress, 20-28 Jul. 2018, Iran University of Science & Technology, Tehran, Iran.**