

# Hossein Chenani

M.sc. Student in Materials Science and Engineering

**Address:** District 22, Tehran, Iran.

**Phone:** +98 (0)919 575 5766

**Email:** [hossein.chenani@sharif.edu](mailto:hossein.chenani@sharif.edu)

**LinkedIn:** [Hossein Chenani](#)

---

## Summary

I have done much different experimental research in diverse fields of materials science and engineering during my education. Eventually, I found that electrochemistry and advanced materials are my research interests, so currently, I am working on wearable biosensors and hydrogels, and electrocatalysts.

---

## Education

**Master of science student**, Materials Science and Engineering, Sharif University of Technology, 2021-Present.

**Supervisor:** Professor [Abdolreza \(Arash\) Simchi](#).

**Thesis:** Investigation of Mechanical and Electrical Properties of PEDOT:PSS Composite Hydrogels for Application in Wearable Biosensors.

**Bachelor of science student**, Materials Science and Engineering, Isfahan University of Technology, 2017-2021.

**GPA:** 18.07/20

**Supervisor:** Professor [Ahmad Kermanpour](#).

**Thesis:** Spheroidization of Metal Powders With RF Plasma Systems for Use in Additive Manufacturing. (Thesis Grade: 20/20).

---

## Research Interests

Wearable biosensors	Hydrogels	Colorimetric sensors
Biomaterials	Electrochemical sensors	Additive Manufacturing

---

## Honor and Awards

- Ranked 2<sup>nd</sup> among 89 Students, Materials Engineering, IUT, Iran.
- Selected as a prominent student for direct Master's scholarship in the Top 5 University of Iran.
- Three years of membership in Iran's National Elites Foundation.
- First place in Air Pistol Shooting competitions in the National Student Sports Olympiad, Isfahan, Iran, 2020.
- Selected Member of "Scientific Association of Materials Engineering", IUT, 2019
- Ranked within the top 20% in the Metallography competition, Amirkabir University of Technology, 2019.
- Ranked within the top 20% in the Metallography competition, Tabriz University, 2018.

---

## Publications

- 1) M.S. Fallahzadeh, **H. Chenani**, A. Taherizadeh, "Revealing of AISI304 Microstructure Using New Methods of Color Metallography", CMAT Conference, Tehran, Iran, 2019.
- 2) **H. Chenani**, M.S. Fallahzadeh, M. Monir Vaghefi, "The Effect of Coating Thickness and Heat Treatment of Electroless Ni-P Coating on CK45 Steel Surface Properties and Characterization Results", CMAT Conference, Tehran, Iran, 2019.

---

## Research Experiences

- **Sensor's Electrode Modification by Au-Ag/Zif-67 for Detection of Morphine**  
Supervisor: Abdolreza (Arash) Simchi  
Sharif University of Technology  
2022-Now.
- **Modification of Lead-Acid Batteries**  
Supervisor: Abdolreza (Arash) Simchi  
Iran's National Elites Foundation  
2021-2022.
- **Optimization of Acidizing of Oil Wells**  
Supervisor: Ehsan Khamechi  
Iran's National Elites Foundation  
2020-2021.
- **Characterization of Ni-P Electroless Coating**  
Supervisor: Mahmoud Monir Vaghefi  
Isfahan University of Technology  
2018-2019.

---

## Work Experience

- **Internship at Arjan Surface Tech.**  
HVOF coating technique.  
Supervisor: Dr. Masoud Atapour.  
Summer-2021.

---

## Other Activities

- Twice Invitation to Shooting Junior National Team of Iran, Air pistol.
  - Invitation to The 15th Sports Olympiad of Iran's Universities, Gilan, Iran, 2020.
  - Three Years Being in Iranian Shooting Premiere League, Air pistol (2014 - 2016).
  - First Place in Karate National Championship, Tehran, 2011.
  - Official Dan 1 from the Karate Federation of Iran.
-

## **Skills**

- Teamwork
- Project Management
- Autolab
- Microsoft Office
- Machine Learning (Elementary)
- Comsol (Elementary)
- Catia (Elementary)
- Mendeley

---

## **Languages**

- English (working proficiency)
- Persian (native)