## Zahra

# Zamani faradonbeh

Curriculum Vitae

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Tehran, Iran

Z.Zamani faradonbeh

#### Profile

I am a graduated Master's student in Materials Science and Engineering, educated at the best technological university in Iran, with three published papers in reputable journals, proficient in technical tools, with a high GPA, and more than five years of work and research experience.

## Education

• 2019-2022

M.S. in Material science and Engineering

Sharif University of Technology, Tehran, Iran

**Thesis title:** "Construction and characterization of photoelectrodes based on double layer hydroxide FeNiCo / WO<sub>3</sub> for solar seawater splitting "

Supervisor: Dr. Abdoreza(Arash) Simchi / Dr. Alireza Moshfegh

• 2016-2019

**B.S.** in Materials Science and Engineering

Shahrekord University, Shahrekord, Iran

Thesis title: Construction and characterization of magnetic induction and hypothermic

furnaces on an industrial scale

Supervisor: Dr. Ebrahim Sharifi

#### **Publication**

- 1. Behnam Nourmohammadi Khiarak, Majdoddin Mojaddami, **Zahra Zamani Faradonbeh**, Angelina Olegovna Zekiy, Abdolreza Simchi, "ACS Energy & Fuels", Efficient Electrocatalytic Overall Water Splitting on a Copper-Rich Alloy: An Electrochemical Study.
- 2. **Zahra Zamani Faradonbeh**, Nafise bolghanabadi, Mohsen saeedi, Matin Mohebi, Abdolreza Simchi "Under review", Topological insulator Bi2Te3 co-catalyst on Ternary NiFeCo-metalorganic framework for overall water splitting.
- 3. **Zahra Zamani Faradonbeh**, Mohsen saeedi, Abdolreza Simchi, Alireza Moshfegh "Under review", Ternary NiCoFe-layered double hydroxide Co-catalyst on WO 3 photoanode for low bias photoelectrochemical seawater oxidation

## Workshops and conferences

- Motion graphic Workshops, Sharif University of Technology, December 2022.
- Machine Learning Workshops, Sharif University of Technology, currently 2020.
- MATLAB Workshops, Sharif University of Technology, September 2020.
- Coding / Python Workshops, Sharif University of Technology, April 2020.

- **Photoshop** Workshops, Sharif University of Technology, December 2019.
- "Casting" competitions and educational conference / 8th Iranian Materials Science and Metallurgy Engineering Student Competition, Shahrekord University, October 2019.
- "Non-destructive welding" workshop, technical and professional in Isfahan, October 2018.
- Workshop and educational conference "Steel Structure" / Scientific Conference on Materials Engineering of Saba Steel Zagros Company, Shahrekord University, May 2018.
- "Expert Software" workshops, Shahrekord University, September 2018.
- CMAT Workshop and Educational Conference / 14th Iranian Conference on Materials and Metallurgy Engineering, Shahrekord University, October 2017.
- Workshop "Industrial Design Introductory Course with Solid Works Software", Shahrekord University, May 2018.

## **Work Experience and Activities**

- Education and research and development expert, Sharif Enterpreneurship, 2021-now
- Expert research and development, karyabisharif, 2019-2021
- **Teaching assistant** For the course of physical metallurgy **Dr.M.Reisi** 2021.
- **Teaching assistant** For the course of Solidification **Dr.M.Reisi** 2021.
- Research assistant in the field of electrochemistry and photoelectrochemistry and in the discussion of clean and renewable hydrogen energy, Department of Materials, Shrif University, From 2019.
   Laboratory: Dr. Abdoreza(arash) Simchi / Dr. Alireza Moshfegh
- chief editor

Journal of Growth and Entrepreneurship, Sharif University of Technology, June 2020.

The internship

Saba Steel Zagros Company, Quality Control Laboratory and Production Line Inspector, Summer 2019.

Research Assistant

Biomaterials Laboratory, Department of Materials, Shahrekord University, August 2016. Laboratory: **Dr. Ali Dost Mohammadi** 

Research Assistant

Biomaterials Laboratory, Department of Materials, Shahrekord University, September 2018. to July 2019

Laboratory: Dr. Ebrahim Sharifi

Research Assistant

Composite and alloying laboratory, Department of Materials, Shahrekord University, August 2016. Laboratory: **Dr. Ali Dost Mohammadi** 

### **Achievements**

- Selected as the top idea give at Inoka Festival
- Construction of induction furnace and obtaining the degree of knowledge-based company
- Ranked 11 countries in the 2019 master's entrance exam

#### **Skills**

Laboratory skills (experimental experiences)/ software (computer proficiencies)

Microscope Operator SEM ,TEM

- Galvanostate & Potentiostat devices
- Industrial design with SolidWorks software
- Phase analysis with software Xpert
- Work with statistical software Minitab/ Nova/ Matlab/ Photoshop

#### Language

- Persian (native)
- English(Studying for the IELTS test)
- Very little German (For personal interest)
- Turkish (Mother tongue)
- Arabic

#### **Interest**

- Teamwork
- Study in the field of health
- Mountaineering
- Swim
- Walk among the people

## References

• Dr.Abdoreza(arash)Simchi

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Engineering and Materials Science Department, Sharif University of Technology, Tehran, Iran

• Dr. Alireza Moshfegh

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Physics Department, Sharif University of Technology, Tehran, Iran

• Dr. Ali Doostmohammadi

Doost@yorku.ca

Mechanical Department, Yorkuniversity, Toronto, Canada