

CURRICULUM VITAE

Name: Marzieh Sadat

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➤ EDUCATION

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| 2016- Present | Ph.D. in Nanotechnology
Sharif University of Technology |
| 2012-2014 | M.Sc. in Nanochemical engineering
Shiraz University |
| 2006-2010 | B.Sc. in Chemical engineering
Jondi Shapour University of Technology |
| PhD. Thesis | Design of a QCM biosensor for detection of breast cancer cells.
Supervisor: Prof. Azam Iraji Zad
Prof. Manouchehr Vossoughi |
| M.Sc. Thesis | Design and fabrication of gas sensor based on metal-organic frameworks for detection of Volatile Organic Compounds (VOCs).
Supervisor: Dr. Sedigheh Zeinali |
| B.Sc. Thesis | Modeling of industrial wastewater treatment unit by Aspen Plus (Aspen +) software
Supervisor: Dr. Khashayar Badii |

➤ EDUCATIONAL AND WORK EXPERIENCE

- 1- e-learning **teacher** for nanostructure characterization lessons, Faradars Corporation, **2018**
- 2- Department of Bio-system Engineering, Shahid Chamran University of Ahvaz, Ahvaz, Iran.
Teaching Assistant of quality evaluation of food products (subject: introduction and application of Nanotechnology), 2016

4- “Radin Faradid Petro Sanat” corporation in oil, gas and petrochemical Incubator Center, Fars Science and Technology Park, **Research assistant and staff, 2016.**

5- **Official and financial staff** at Abadan Ghadr corporation- subject: overhaul of Catalytic cracking unit (FCCU), **2011**

6- **Trainee** at Abadan Oil Refinery, Refining Engineering Unit, **2009**

➤ RESEARCH EXPERIENCE

- Metal-Organic Framework (MOF) synthesis
- Solvothermal particle/film synthesis
- Electrospinning and electrospray film coating
- Design and fabrication of capacitive sensor
- Design and fabrication of biosensor
- Design and fabrication of QCM sensor
- Electrochemical film synthesis
- Industrial wastewater treatment

➤ RESEARCH INTERESTS

- Capacitive sensor
- Quartz Crystal Microbalance (QCM) sensor
- Film coatings
- Nano-biosensor
- Nano-biotechnology

➤ HONORS & AWARDS

- Doing M.Sc. Thesis based on industrial and research requirement of Abadan Oil Refinery so taking award from Abadan Oil Refinery, **2015.**
- Taking award from Iran Nanotechnology Initiative Council (INIC) for doing M.Sc. industrial thesis about nanotechnology, **2015.**
- Taking award from Iran Nanotechnology Initiative Council (INIC) for publishing paper about nanotechnology, **2016.**

➤ PROFESSIONAL SOCIETY MEMBERSHIPS

- **Member** of Iranian Tissue Engineering and Regenerative Medicine Society (ITERMs), Tehran, **2018** till present.
- **Member** of Central Council of scientific association, Shiraz University, **2014-2015.**
- **Member of Policy Council** of 3rd congress of Nano Science and Nanotechnology spring school, Shiraz University, **2015.**
- **Member of Policy Council** of 2rd congress of Nano Science and Nano technology spring school, Shiraz University, **2014.**

➤ LIST OF PUBLICATIONS

➤ Journal Papers

1. **Hosseini, M S.**, Zeinali, S., Sheikhi, M H., Fabrication of capacitive sensor based on Cu-BTC (MOF-199) nanoporous film for detection of ethanol and methanol vapors. *Sensors and Actuators B* 230 (2016) 9–16.

2. Zeinali, S., **Hosseini M S.**, Capacitive humidity sensing using metal-organic framework (Cu-BTC) nanoporous thin film fabricated through electrochemical in situ growth. *J. Mater. Sci. Mater. Electron.* (2018) DOI: 10.1007/s10854-018-00652-8.

➤ **Conference Papers**

1- **Hosseini, M S.**, Zeinali, S., Electrochemical synthesis and insitu film growth of Cu-BTC thin film for capacitive humidity sensing. *7th International Congress on Nanoscience & Nanotechnology (ICNN 2016)*.

2- **Hosseini, M S.**, Zeinali, S., Sheikhi, M H., Fabrication of Novel Capacitive Nanosensor Based on Metal Organic Frame Work (Cu-BTC) in Order to Gas Sensing. *5th International Congress on Nanoscience & Nanotechnology (ICNN 2014)*.

3- **Hosseini, M S.**, badii, Kh., Application of Aspen Plus software in designing of coagulation and flocculation circuits of industrial wastewater treatment systems, *5th National Conference & Exhibition on Environmental Engineering (2012)*.

➤ **SKILLS**

Software

- Material studio (Molecular dynamic simulation software)
- Aspen+
- Matlab
- MS Office (Word, Excel, PowerPoint)
- Endnote
- Photoshop

Language

- Farsi (Native)
- English
- MSRT (Ministry of Science, Research and Technology): 69/100

➤ **RELATED & TRAINING EXPERIENCES**

- Capacitate workshop of nanotechnology, Iran Nanotechnology Initiative Council (INIC), Tehran, **2014**.
- Creativity and innovation workshop, Shiraz University, Shiraz, **2014**.
- Designing business plan (BP) and entrepreneurship workshop, Shiraz University, Shiraz, **2014**.
- Numerical optimization workshop, Shiraz University, Shiraz, **2014**.
- Interior manager of 2nd congress of Nano Science and Nanotechnology spring school, Shiraz University, Shiraz, **2014**.
- Connector of Iran Nanotechnology Initiative Council (INIC) and Shiraz University, **2014-2015**.
- Interior manager of 3rd congress of Nano Science and Nanotechnology spring school, Shiraz University, Shiraz, **2015**.

- Capacitate workshop of nanotechnology, Iran Nanotechnology Initiative Council (INIC), Tehran, **2015**.
- KAB entrepreneurship course, Technical & Vocational Training Organization, Shiraz, **2015**.
- Material studio (molecular dynamic simulation software) workshop, **2015**.
- Nano-biotechnology workshop, Iran University, Tehran, **2016**.
- Atomic Force Microscopy (AFM) workshop, 7th international conference of nanoscience and nanotechnology (ICNN), Kharazmi University, Tehran, **2016**.
- Nano safety workshop, Sharif University of technology, Tehran, **2017**.
- Administrative staff of International Conference of Nanoscience and Nanotechnology (ICNS), Sharif University of technology, Tehran, **2018**.
- Tissue Engineering and 3D printing workshop, Sharif University of technology, Tehran, **2018**.
- The first conference of Tissue Engineering and Regenerative Medicine, Tehran university of medical sciences, Tehran, **2018**.

➤ REFERENCES

- Sedigheh Zeinali, associate professor at Nanochemical Engineering Department, College of Advanced Technologies, Shiraz University, Shiraz, Iran.
E-mail: Zeinali@shirazu.ac.ir
- Azam Irajizad, professor in Physics Department and Institute for Nanoscience and Nanotechnology (INST), Sharif University of technology, Tehran.
E-mail: Iraji@sharif.edu
- Manouchehr Vosoughi, professor in Chemical and Petroleum Engineering Department, Sharif University of technology, Tehran.
E-mail: vosoughi@sharif.edu
- Mohammad Hossein Sheikhi, Professor at Telecommunication and Electronic engineering Department, electrical engineering and computer science college, Shiraz University, Shiraz, Iran.
E-mail: Msheikhi@shirazu.ac.ir
- Davoud Kazemi, HR officer at Iran Nanotechnology Initiative Council (INIC), Tehran, Iran.
E-mail: Kazemidavoud@yahoo.com