

Mahsa Hassani Marand

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QUALIFICATIONS AND RESEARCH SUBJECTS

2011-2015

B.SC., APPLIED CHEMISTRY • UNIVERSITY OF MARAGHEH

- Studied on the production of wallpaper adhesive using internal sources and compare it with foreign samples available on the market.

2016-2019

M.SC., NANO TECHNOLOGY • IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

- Synthesis and characterization of vanadium oxide nano catalysts and its application at the removal of NO_x pollutant.
- Synthesis and characterization of nano clay adsorbents and their application in the removal of coloured compounds, **Supervisor:** Prof. Mansoor Anbia

2019- PRESENT

Ph.D., NANO TECHNOLOGY • SHARIF UNIVERSITY OF TECHNOLOGY

NATIONAL AND INTERNATIONAL CONFERENCE

APRIL 14, 2019

3rd NATIONAL CONFERENCE ON NANOSTRUCTURES, NANOSCIENCE AND NANOENGINEERING, KASHAN

- Synthesis of Silica Pillared Clay/Chitosan (SPC-CTS) Nanocomposite for removal of an acidic dye from aqueous media.
- Construction of an over-oxidized Polypyrrole based electrochemical sensor and its application for determination of Copper (II) in environmental samples.

PUBLICATIONS

2019

- Volta metric and potentiometric determination of Cu²⁺ using an over-oxidized polypyrrole based electrochemical sensor.
- Synthesis and characterization of amino functionalized silica pillared clay as a low cost and eco-friendly adsorbent for removal of an acidic dye.

RESEARCH INTERESTS

- Nano-materials
- Nano-biosensors
- Nano-biotechnology
- Nano adsorbents
- Nano-neuroscience
- Air and Water treatment

TRAINING

2016

IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

- Health, Safety and Environment (HSE)

KARNOSTARTUP

- Understanding Business Skills Concepts (Understanding the Concepts of Business Modeling, Commercialization of Nanotechnology, Patents, Marketing Principles)

2017

IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

- Electrochemical Impedance Spectroscopy (EIS)
- Gas Chromatography (GC)

2018

IRAN UNIVERSITY OF SCIENCE AND TECHNOLOGY

- High-performance liquid chromatography (HPLC)
- Adobe Photoshop CC

IT AND SOFTWARE

- Internet
- Chem Drow, Chem Doodle
- Adobe Photoshop CC
- Design Expert
- Microsoft Office (Word, Excel, Power point and etc.)
- Mendeley , Thomson Reuters EndNote
- Expert high score plus

ACTIVITIES

- Participation in the International Nanotechnology Exhibition by IUST
 - Cooperate with the Karno Startup Group as an Executive Officer in IUST
 - Member of the Chemical Society of the University of Maragheh in 2013-2014
 - Member of the Chemical Society of Iran University of Science and Technology in 2017-2018
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I was known as engaged, active, intimate and enthusiastic in a friendly society while my coworkers say I am an analyst, hard worker, fast learner and explorer in academic places that enables me to solve problems with quick solutions. According to the Myers-Briggs personality test that was identified me as an ENTP's, I can find the complex interrelationships between people, things, and ideas quickly and am able to analyze these interrelationships in profound detail. This test proposes to me entrepreneurially or management. It looks, I can be helpful by sharing my abilities and skills with your work team.
