


HESSAM SHAHBAZI

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EDUCATION

MSc | Materials Science & Engineering | Sharif University of Technology | 2017 - 2020 (GPA:3.92/4 ^{according to WES})
Thesis Adviser: Prof. Reza Bagheri

BSc | Metallurgy & Materials Engineering University of Tehran | 2013 - 2017 (GPA: 3.22/4 – Last 2 years: 3.66 ^{according to WES})
Project Adviser: Dr. Saeed Sheibani

LANGUAGE SKILLS

ENGLISH: TOEFL
DEUTSCH: A2 level
PERSIAN: Mother Tongue

OTHER SKILLS

Leadership & Teamwork
Problem Solving
Time Management
Work Well Under Pressure

ACADEMIC EXPERIENCES

LECTURER | 2019 - NOW | IRAN NANOTECHNOLOGY INITIATIVE COUNCIL

- Received the certificate of Teaching capability on behalf of INIC

TEACHER ASSISTANT | 2018 - 2020 | SHARIF UNIVERSITY OF TECHNOLOGY

Materials Characterization Methods MSc Course & BSc Course (Lecturer: Dr. Khachatourian)

Key Responsibilities:

- Leading communication-intensive sessions
- Proctoring examinations & grading assignments
- Thermodynamics of Materials, BSc Course (Lecturer: Prof. Sadrnezhad)

Key Responsibilities:

- Helping students in understanding course material
- Helping the Prof. to set up questions for exams
- Helping design and execute and grading 10 quizzes

MENTORING UNDERGRADUATE RESEARCHERS | 2019 - NOW | SHARIF UNIVERSITY OF TECHNOLOGY

Key Responsibilities:

- Mentoring 4 researcher on effective strategies for completing their BS thesis projects

OTHER EXPERIENCES

- EXECUTIVE COMMITTEE MEMBER | August - November 2017
- UFGNSM 2017 - 6th Biennial International Conference on Ultrafine Grained and Nanostructured Materials

RESEARCH EXPERIENCE

ONGOING

Graduate RA | Dr. Khachatourian's Lab | Sharif University of Technology | 2020-now

- Modification and doping of Nitrogen and Phosphorous elements into 2D nanomaterials
- Working on chemically-modified exfoliation of 2D nanomaterials

DONE

Graduate RA | Prof. Bagheri's Lab | Sharif University of Technology | 2018-2020

- Synthesis of Phosphonium Salt for physical modification of 1D nanomaterials
- Modification of nanotubes to reach debundling

Undergraduate RA | Extraction Lab| University of Tehran | 2016 - 2018

- Synthesis of photocatalyst nanomaterial for pollutant degradation
- Used chemical modification of 1D nanomaterials and examined photocatalytic activity

RESEARCH INTERSTS

Electrochemistry Science
Nanoscience
Nanomaterials Characterization
Materials Synthesis
Pollutant Degredation

ENGINEERING SOFTWARES

Comsol Multiphysics
Xpert Highscore
Design Expert
Matlab & Simulink
AutoCAD

EXTRA-CURRICULAR

An Amateur Football Player
A Rock Music lover
Professional Portrait Painter
Graphic Designer

HONORS & ACHIEVEMENTS

- 1st Prize | Rahino National Competition 2020 | held by Iran National Elites Foundation
Among 400 graduate and undergraduates
- Ranked 5th | National Nanotechnology Olympiad 2018
Among Materials Science Students
- Ranked 2nd | National Entrance Exam of graduate studies in Nanomaterials Engineering | 2017
- Ranked 24th | National Entrance Exam of graduate studies in Materials Science and Engineering | 2017
- Presence in 12th International Nanotechnology Exhibition, Iran, Tehran
- Placed among TOP4 teams among 28 in Nano Festival 2019, held by Iran Nano Initiative Council

PUBLICATION

- Hessam Shahbazi, Alireza Shafei, and Saeed Sheibani, 6th Biennial International Conference on Ultrafine Grained and Nanostructured Materials, AIP Conference Proceedings, 1920, 020040 (2018).

REFERENCES

- Prof. REZA BAGHERI
Full Professor of Materials Science and Engineering, Sharif University of Technology
E-mail: rezabagh@sharif.edu
- Dr. ADRIANE KHACHATOURIAN
Assistant Professor of Materials Science and Engineering, Sharif University of Technology
E-mail: khachatourian@sharif.edu
- DR. SAEED SHEIBANI
Assistant Professor of Materials Science and Engineering, University of Tehran
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