

Ali Mohammadi

CONTACT INFORMATION

E-mail: a.alimoh98@gmail.com
Phone: (+98)9223993630
Other Links: [Linkedin](#)

EDUCATION

B.Sc. in Materials Engineering and Metallurgy September 2016 – August 2021
University of Tehran (UT), Tehran, Iran. (GPA: Overall: 16.1/20 - Last 2 Years: 17.1/20)
[Ranked 1st Among Best Global Universities in Iran According to U.S. News Ranking](#)
Thesis Title: "Synthesis of Copper Chromium Oxide Nanocomposites with Mechano-Thermal Method and Investigation of its Photocatalytic Properties."
Supervisor: Dr. Saeed Sheibani

RESEARCH INTERESTS

- Photocatalysis
- Catalysis
- Nanomaterials
- 2D Electronics
- Sustainability
- Fuel Cells
- Mathematical Modelling
- Advanced Materials
- Water and Wastewater Treatment
- Simulation

PUBLICATIONS

- A. Mohammadi, S. Sheibani, "Photocatalytic improvement of $\text{CuCr}_x\text{O}_{2x}$ ($x=1,2$) Powder through structure modification by a facile mechano-thermal method" (under review)
- A. Mohammadi, S. Sheibani, "Synthesis of Copper Chromium Oxide Nanocomposite Powder with Mechanical Milling and Subsequent Heat Treatment", 9th International Conference on Materials Engineering and Metallurgy (iMat 2020) Tehran, Iran. Nov. 2020.

SELECTED COURSES

- Identification and Selection of Metals (17.5/20)
- Principles of Materials Science and Engineering (17.5/20)
- Kinetics of Materials (17.75/20)
- Physical Chemistry of Materials (18.75/20)
- Computer Programming (18.1/20)
- Environment and Materials Recycling (17.25/20)
- Methods of Materials Analysis (17.5/20)
- Introduction to Programming with MATLAB (Online course authorized by Vanderbilt University)

HONORS & AWARDS

- Ranked within the top 15% of graduating class at Department of Materials Engineering and Metallurgy, University of Tehran. August 2021
- Ranked within the top 1% among more than 160,000 participants in Iranian University Entrance Exam. July 2016

RESEARCH EXPERIENCES

Research and Development Assistant February 2020 – February 2021
University of Tehran Science and Technology Park, Tehran, Iran.
Project: A Regional Approach to Accelerating IoT Startups. Mentor: Meysam Yousefi

TEACHING EXPERIENCE

- **Teaching Assistant:**
1- Dr.Saeed Sheibani "Physical chemistry" February 2021 – August 2021
University of Tehran, Tehran, Iran
2- Dr.Iman Eshraghi "Physics" September 2018 – August 2019

University of Tehran, Tehran, Iran

ACADEMIC PROJECTS	<ul style="list-style-type: none">• A review on Non-destructive Testing Methods <i>Professor Abbas Zarei - Mechannical Properties of Materials</i> 2020• Thermography (IRT) as a non-destructive testing method <i>Professor AhmadAli Amade - Non-destructive evaluation</i> 2019
SEMINARS & CONFERENCES	<ul style="list-style-type: none">• "Uncovering Structure-Property Relationships through Data Science", <i>University of Buffalo, Webinar.</i> February 2021• 9th International Conference on Materials Engineering and Metallurgy (iMat 2020). November 2020
SKILLS	<p>Programming Language: C++, MATLAB, Python. Software: L^AT_EX, AutoCAD, SOLIDWORKS, Adobe Photoshop.</p>
LANGUAGE PROFICIENCY	<ul style="list-style-type: none">• Persian: Native• English: Speak fluently and read/write with high proficiency IELTS: Overall: 7.5 (L:7.5 - R:8.5 - W:6.5 - S:7.5)
MEMBERSHIPS	<ul style="list-style-type: none">• Member of the Scientific Association of Materials Engineering and Metallurgy Department, University of Tehran, Iran 2019 – 2020• Representative of Scientific Association of Materials Engineering Metallurgy Department of University of Tehran in Industrialization Center for Applied Nanotechnology (ICAN) 2019 – 2020
HOBBIES	<ul style="list-style-type: none">• Podcast• Music• Basketball• Chess
REFERENCES	<ul style="list-style-type: none">• Saeed Sheibani: Associate Professor, School of Metallurgy and Materials Engineering, University of Tehran. Email: ssheibani@ut.ac.ir Phone Number: (0098)21-82084068• Masoud Emamy: Professor, School of Metallurgy and Materials Engineering, University of Tehran. Email: emamy@ut.ac.ir Phone Number: (0098)21-82084083• Ahmadali Amade: Professor, School of Metallurgy and Materials Engineering, University of Tehran. Email: amadeh@ut.ac.ir Phone Number: (0098)21-82084609