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linkedin.com/in/sajjad-ebrahimi-moghaddam/

**Publications**

1. Ebrahimimoghaddam S.; Hamidi A.; Rashchi F.; Vahidi E.; “selectivity and mechanism study of PVDF-rGO membranes for gold adsorption and its life cycle analysis.” (under preparation)
2. Chavoshi M.; Ebrahimimoghaddam S.; Rashchi F.; Vahidi E.; “Effective microwave assisted leaching of rare earth elements from red mud using organic acids.” (under preparation)



**2025 (exp)**

**2024**

**Research Interest**

* Nanomaterials and graphene
* Adsorption
* Recycling of wastes
* Hydrometallurgy
* Waste management
* Rare earth elements

**Education**

**Sep 2022 – Jan 2025 (expected)**

**M.Sc., Materials and Metallurgy Engineering**

School of Metallurgy and Materials Engineering, University of Tehran, Tehran, Iran

[(Ranked 152st in the world and 1st in Iran in material science by the US news ranking)](https://www.usnews.com/education/best-global-universities/university-of-tehran-504903)

* **Thesis:** Recovery and adsorption of gold using synthesized reduced graphene oxide and its related environmental impact
* **Supervied by:** Dr. Fereshteh Rashchi
* **Total CGPA:** 3.86 /4 (17.57/20)

**B.Sc., Materials and Metallurgy Engineering**

School of Metallurgy and Materials Engineering, Iran University of Science and Technology, Tehran, Iran

[(Ranked 271stin material science in the world by the US news ranking)](https://www.usnews.com/education/best-global-universities/iran-university-science-technology-505518)

* **Thesis:** Methods of extracting rare earth compounds from primary sources
* **Supervied by:** Dr. Somaye Alamolhoda
* **Total CGPA:** 2.73/4 (14.5/20)
* **CGPA of last two years:** 3.17/4

**Sep 2017 – March 2022**

+98 9912015083

Sajjadebrahimi.com



Koohak st., Dist. 22, Tehran, Iran

Sajjad.ebrahimi78m@gmail.com

Post-graduate Research assistant, School of metallurgy and materials engineering, university of Tehran, Tehran, Iran

Sajjad Ebrahimi Moghaddam

1. Rajaee A.; Ebrahimimoghaddam S.; Rashchi F.; Vahidi E.; “Electrolyte and PVDF recovery from spent Li-Ion batteries using vacuum distillation and solvent extraction.” (under preparation)
2. Aghaee S.; Ebrahimimoghaddam S.; Rashchi F.; Vahidi E.; Latifi M.; “Selective recovery and separation of REEs from Nd magnets of waste hard disk drives using chemically reduced graphene oxide.” (under preparation)

**Languages & test scores**

**Persian** – Mother tongue

**English** – **IELTS 7.5** (S:7, L:9, W:7, R:7.5) ~ C1

**German** – A1

**Specialized software Skills**

**Programming:** Python(Advanced) – Machine learning (basics)

**Quantom mechanics Simulations** – DFT**:** Material Studio

**Thermodynamic Softwares:** HSC, Medusa

**Computer-aided Design:** Solidworks

**Crystallographic Analysis:** Xpert HighScore Plus

**Others:** Origin, and Design-Expert, Mini-tab, Image J, Excel

**Selected Specialized Courses**

**WES score (out of 4)**

4

4

4

4

4

4

- Advanced Thermodynamics of materials (M.Sc)

- Theory of Bio,Hydro Electrometallurgy (M.Sc)

- Advanced methods of materials characterization (M.Sc)

- Kinetics of materials (B.Sc)

- Analytical Chemistry and Laboratory (B.Sc)

- Ore processing and Laboratory (B.Sc)

- **Teaching Assistant,** University of Tehran, Tehran, Iran.

Theory of Bio,Hydro, electrometallurgy processes

Supervised by: Dr. Fereshteh Rashchi

* **Post graduate Research assistant**, University of Tehran, Tehran, Iran. Recycling Laboratory

Supervised by: Dr. Fereshteh Rashchi

**2022-2024**

**Sept2024-Feb2025**

**Academic Experiences**

**2025(exp)**

**2025(exp)**

**Name: …**

**Email**: [...@ut.ac.ir](mailto:...@ut.ac.ir)

**Location:** University of Tehran, Tehran , Iran

**Name: Fereshteh Rashchi**

**Email**: [rashchi@ut.ac.ir](mailto:rashchi@ut.ac.ir)

**Location:** University of Tehran, Tehran , Iran

**Name:** **Ehsan Vahidi**

**Email:** evahidi@unr.edu

**Location:** University of Nevada, Reno, Nevada , United states of America

**References**

* Ranked 28 among more than 3,000 participants in the Iran National Entrance Exam for entering the postgraduate program.
* Ranked within the top 10 students in the postgraduate program in the school of material science.

**2022**

**2022**

* Solidworks fundamnetals course – Tehran institute of technology [Link]
* ImageJ course – University of Tehran [Link]
* Machine learning with python – Maktabkhoone [Link]
* IELTS 7.5 [Link]

**Certificates**

**2022**

* Internship at Fooladrizan complex – Molding, Casting, Calculations, Quality control

**2022**

* Laboratory Operator (SES analysis) at Parsian Metallurgy Center

**Work Experiences**

* Investigating methods of extracting REEs from primary sources and red mud [Link] .
* Investigating Ammonium thiosulfate leaching of gold [Link].
* Exploring additive manufacturing of materials using material jetting technique [Link].

**Academic Projects [explore more]**

**Density Functional Theory** - École Polytechnique - Coursera

**Introduction to molecular spectroscopy** – University of Manchester – Coursera

**Nanotechnology: A Maker’s Course** **–** Duke University – Coursera

**Graphene – Synthesis, Characterization and utilization** – Nanoeducation.ir

**Machine learning by Python -** maktabkhooneh.org

**Workshops & other courses**

**Honors and Awards**