Mojtaba Adelalipour | Curriculum Vitae

https://mojtabaa.id.ir

FIELDS OF INTEREST

Extractive Metallurgy – Hydrometallurgy, Pyrometallurgy, Electrometallurgy, Biometallurgy, Mineral Processing.
Environmental Engineering -- Waste Treatment and Recycling, Mineral Carbonation.

Expertise: Application of hydrometallurgy in the extraction of non-ferrous metals

RELEVANT PROFESSIONAL EXPRIENCE

Quality Assurance Engineer 2022-2023
Ramtin Copper Industries, Mashhad, Iran

- Quality control of input materials including pure metals and copper containing scraps,
- Making copper alloys including C83600 and C19400,
- Casting rods and tubes in various sizes through the HCCM method.

Founder - Metallurgical Engineer 2016-2021
Kimiyazar Recovery Industries, Tehran, Iran

- Implemented the plan of copper and precious metals recovery from waste PCBs, from feasibility study to pilot plant,
- Co-operated in design of acidic leaching, bioleaching, cementation, electrowinning, and electrorefining sectors of the recycling plan,
- Achieved the Knowledge-Based award from Vice-Presidency for Science and Technology Affairs of Iran.

Intern Summer 2014
Non-Ferrous Metals Recovery Industries company, Tehran, Iran

- Learnt about pyrometallurgical process of precious metals recycling from secondary resources such as E-waste and spent catalysts,
- Presented a report about factory processes to the company and university.

EDUCATION

Université Laval, Quebec City, Canada

Ph.D. in Mining Engineering 2023 - 2027(Expected)

- Specialization: Heap Leaching and Mineral Carbonation
- Supervisor: Prof. Fei Wang
- Funding Source: NSERC

Amirkabir University of Technology (Tehran Polytechnic), Tehran, Iran
(2nd best university in Iran according to the 2023 QS ranking)

- M.Sc. in Materials Engineering - Extraction of Metals 2015 – 2018
- B.Sc. in Materials Engineering - Extractive Metallurgy 2011 - 2015

RESEARCH EXPERIENCE

Selective leaching of Ni from iron-rich pyrolusite ore by glycine as an organic solvent 2019
The 3rd National Competitions of Production and Recycling of Metals

Study of effective parameters on production of $SrCO_3$ from Celestine ore through the Black-Ash process 2018
M.Sc. Thesis

Recovery of Ni and Co from lithium-ion batteries (LIBs) solid waste by salting-out method including acidic leaching, solvent extraction by 2-propanol, and precipitation 2018
The 2nd National Competitions of Production and Recycling of Metals

Recovery of Ni from the spent catalysts by acidic leaching followed by oxalate precipitation method 2017
The 1st National Competitions of Production and Recycling of Metals

Solvent extraction of Zn and Cd by D2EHPA at the presence of citrate ion 2015
B.Sc. Thesis

SKILLS

Language: Persian: Native)
English : 6.5 IELTS overall band score (L7 R7.5 W6 S5)

Software : Medusa, HSCChemistry
PANalyticalX'Pert
Minitab, Design-Expert
EndNote, Mendeley
Microsoft Office, Visio

Analytical Technique : XRD, XRF, SES, SEM
TGA/DTA/DSC (Basic)
EP-AES, Spectrophotometry
FTIR (Basic)

AWARDS AND ACHIEVMENTS

3rd National Competitions of Production and Recycling of Metals	Won 2nd Place	2019
1st National Competitions of Production and Recycling of Metals	Won 1st Place	2017
Amirkabir University of Technology (Tehran Polytechnic)	Granted An Exam-Free Admission to M.Sc. Program	2015