



## Marzieh Hosseini Nasab

### Assistant Professor

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Departments : Mining   Engineering

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University of Sistan and Baluchestan, Daneshgah Ave., Zahedan,  
Iran.

## Education

- ✓ B.Sc, Mining Engineering, University of Birjand - 2005
- ✓ MS, Mining Engineering, Shahid Bahonar University of Kerman - 2008
- ✓ PhD, Mining Engineering, University of Tehran - 2020

## Master Thesis

### 1. Investigating the application of Chehel Koureh copper mine tailings for use as raw materials for construction materials

یوسف درزاده, [Ali Akbar Daya, Marzieh Hosseini Nasab]

نیمسال اول سال تحصیلی 1401-1402

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## Journals Papers

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### 2026

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#### 1. An Innovative Approach to Optimize the Comminution Circuit of Micronized Powder Production Plant

Alireza Ghorbanifar, Marzieh Hosseini Nasab, Javad Alibabaii, Mohammad Noaparast

Rudarsko-Geolosko-Naftni Zbornik Volume: (41) 109 - 127

#### 2. Enhanced detoxification and valuable metal extraction from electroplating sludge via ultrasonic-assisted ferric sulfate bio acid

Mehrdad Kordloo, Nima Jafari, Ali Rezaei, Hanieh Noeparast, Marzieh Hosseini Nasab, Yousef Ghorbani

Scientific Reports Volume: (16) 1 - 13

#### 3. Enrichment of low-grade Hematite sample by gravity and magnetic methods (Case study: Red soil of Sahel mine)

Seyed Hamzeh Amiri, Marzieh Hosseini Nasab, Mohammad Noaparast, Seyyed Ziaodin Shafaei

Journal of Analytical and Numerical Methods in Mining Engineering Volume: (16) 69 - 87

#### 4. Green purification of mineral and industrial environments (heavy metal absorption using the Kamar-Aviz plant)

Marzieh Hosseini Nasab

Volume: (28) 123 - 133

#### 5. Bioleaching-based dissolution of tungsten from scheelite using spent microbial media and H<sub>2</sub>SO<sub>4</sub>: process optimization and kinetic insights

Hassan Safari, Zohreh Boroumand, Hadi Abdollahi, Mirsaleh Mirmohammadi, Marzieh Hosseini Nasab, Yous

MINERALS ENGINEERING Volume: (248) 110582-1 - 110582-14

### 2025

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#### 6. Concentrating the Zn-Pb sample from Nignan ore deposit

Maryam Abedi Moghadam, Marzieh Hosseini Nasab, Mohammad Noaparast

Rudarsko-Geolosko-Naftni Zbornik Volume: (40) 127 - 140

#### 7. Investigation of Parameters Affecting Sulfide-Oxide Copper Flotation at the Cheshmeh Hadi Mine

Marzieh Hosseini Nasab

Journal of Mineral Resources Engineering Volume: (10) 69 - 91

### 2024

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#### 8. کاربرد باطله های فرآوری مس در تهیه بتن به منظور جلوگیری از آلودگی محیط زیست

Yusuf Dorzadeh, Ali Akbar Daya, Marzieh Hosseini Nasab

Amirkabir Journal of Civil Engineering Volume: (6) 1 - 19

9. Using waste to treat waste: Utilizing pickling liquor for detoxification and extraction of valuable elements from electroplating sludge

Mehrdad Kordloo, Hanieh Noeparast, Ali Rezaei Ashani, Marzieh Hosseini Nasab, Yousef Ghorbani

Environmental Technology and Innovation Volume: (36) 1 - 13

10. Ash Reduction of the Tailings of Agh-Darband Coal Washing Plant by Flotation Method

Marzieh Hosseini Nasab

International Journal of Engineering Volume: (37) 739 - 752

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## 2023

11. Mapping Hydrothermal Alteration Zones Associated with Copper Mineralization using ASTER Data: A Case Study from the Mirjaveh Area, Southeast Iran

Marzieh Hosseini Nasab, Azadeh Agah

International Journal of Engineering, Transactions A: Basics Volume: (36) 720 - 732

12. The optimization of the strontium compounds production, using a celestine ore sample

Ardalan Alishahi, Mohammad Noaparast, Ali Rezaei Ashni, Marzieh Hosseini Nasab

Rudarsko-Geolosko-Naftni Zbornik Volume: (38) 53 - 62

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## 2022

13. Optimization of the line of Magnetite Recovery from Wet Tailings by Creating the Second Medium Intensity Magnetic Field (Case Study: Processing Plant of Gol-e-Gohar Hematite)

Marzieh Hosseini Nasab, Rohollah Rezazadeh

International Journal of Engineering Volume: (35) 1 - 12

14. Selective precipitation of iron from multi-element PLS produced by atmospheric leaching of Ni-Co bearing laterite

Marzieh Hosseini Nasab, Mohammad Noaparast, Hadi Abdollahi

International Journal of Mining and Geo-Engineering Volume: (56) 309 - 313

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## 2021

15. Direct and Indirect Bio-Leaching of Co and Ni from an Iron-Rich Laterite Ore using Delftia Acidovorans and Acidithiobacillus Ferrooxidans

Marzieh Hosseini Nasab, Mohammad Noaparast, Hadi Abdollahi

Journal of Mining and Environment Volume: (12) 471 - 489

16. The effect of inorganic acids on reducing iron impurities during iron-rich laterite ore leaching

Marzieh Hosseini Nasab, Mohammad Noaparast, Hadi Abdollahi

International Journal of Mining and Geo-Engineering Volume: (55) 191 - 199

17. Exploration of iron and chromite by geological and geophysical studies in Shovin area, Sistan and Bluchestan Province

Azadeh Agah, Marzieh Hosseini Nasab

Volume: (7) 299 - 316

## 2020

18. Effect of Particle Size Distribution and Type of Mineral on the Blaine Number

Marzieh Hosseini Nasab, Mohammad Hasan Sadeghi

International Journal of Mining and Geo-Engineering Volume: (54) 51 - 57

19. Indirect bioleaching of Co and Ni from iron rich laterite ore, using metabolic carboxylic acids generated by *P. putida*, *P. koreensis*, *P. bilaji* and *A. niger*

Marzieh Hosseini Nasab, Mohammad Noaparast, Hadi Abdollahi, Mohammad Ali Amoozegar

HYDROMETALLURGY Volume: (193) 1 -105309 - 15-105309

20. Kinetics of two-step bioleaching of Ni and Co from iron rich-laterite using supernatant metabolites produced by *Salinivibrio kushneri* as halophilic bacterium

Marzieh Hosseini Nasab, Mohammad Noaparast, Hadi Abdollahi, Mohammad Ali Amoozegar

HYDROMETALLURGY Volume: (195) 1 -105387 - 10 -10538

21. Dissolution of Nickel and Cobalt from Iron-Rich Laterite Ores Using Different Organic Acids

Marzieh Hosseini Nasab, Mohammad Noaparast, Hadi Abdollahi

Journal of Mining and Environment Volume: (11) 779 - 797

22. Dissolution optimization and kinetics of nickel and cobalt from iron-rich laterite ore, using sulfuric acid at atmospheric pressure

Marzieh Hosseini Nasab, Mohammad Noaparast, Hadi Abdollahi

INTERNATIONAL JOURNAL OF CHEMICAL KINETICS Volume: (52) 283 - 298

## 2019

23. Application and comparison of the cokriging and the fractal model for identifying geochemical anomalies in Janja area, SE Iran

Ali Akbar Daya, Marzieh Hosseini Nasab

International Journal of Mining and Mineral Engineering Volume: (10) 1 - 26

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## 2018

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### 24. Separation of geochemical anomalies using inverse distant weighting (IDW) and concentration-area (C-A) fractal modeling based on stream sediments data in Janja Region SE Iran

Marzieh Hosseini Nasab, Ali Akbar Daya

Bulletin of the Mineral Research and Exploration Volume: (156) 167 - 178

### 25. The Effect of Solids Concentration Flocculant Dosage and Particle Size on Dewatering Behavior of Tailings Sample at Shahrebabk Copper Complex

Mohammad Reza Garmsiri, Marzieh Hosseini Nasab

Amirkabir Journal of Civil Engineering Volume: (49) 645 - 652

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## 2017

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### 26. Optimal Water Recovery with Emphasis on Flocculant Consumption Rate in the Thickener

Marzieh Hosseini Nasab,

Volume: (28) 48 - 57

### 27. REMOVAL OF FINE GANGUE MINERALS FROM CHADOR-MALU IRON CONCENTRATE USING HYDROSEPARATOR

, , Marzieh Hosseini Nasab

Physicochemical Problems of Mineral Processing Volume: (53) 250 - 263

### 28. Effects of orbital shaking on settling velocity of mineral particles in aqueous solutions using split-plot designs

Marzieh Hosseini Nasab

WATER AND ENVIRONMENT JOURNAL Volume: (31) 470 - 477

### 29. Regional simulation and landslide risk prediction based on bivariate logistic regression (A case study Pahne Kola watershed in north of Iran)

, , , Marzieh Hosseini Nasab

International Journal of Mining and Geo-Engineering Volume: (51) 105 - 112

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## 2016

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### 30. A new approach for obtaining settling velocity in a thickener using statistical regression A case study

Marzieh Hosseini Nasab

Journal of Mining and Environment Volume: (7) 47 - 56

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## 2014

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31. Chemical Composition of Fumarolic Gases and Springs Discharges from the Taftan volcano with Emphasis on the Geochemical Behaviour of Arsenic

Marzieh Hosseini Nasab

BULLETIN OF ENVIRONMENT PHARMACOLOGY AND LIFE SCIENCES Volume: (3) 113 - 120

32. Effect of Initial Pulp Concentration on Particles Settling Velocity in various regions of Thickeners

Marzieh Hosseini Nasab

BULLETIN OF ENVIRONMENT PHARMACOLOGY AND LIFE SCIENCES Volume: (3) 253 - 257

33. تاثیر روش آزمایش ته نشینی بر تعیین ابعاد تیکنرها

, Marzieh Hosseini Nasab, ,

SEPARATION AND PURIFICATION TECHNOLOGY Volume: ( ) 87 - 95

34. Thickener Waste Management in Mineral Processing To Prevent Environmental Pollution

Marzieh Hosseini Nasab

International Journal For Research Development in Technology Volume: (2) 5 - 10

35. THE APPLICATION OF ZEOLITE IN THICKENERS FOR OPTIMAL WATER RECOVERY

Marzieh Hosseini Nasab

Recikla a i odr ivi razvoj Volume: (7) 30 - 34

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## 2013

36. Effect of settling test procedure on sizing thickeners

Marzieh Hosseini Nasab

SEPARATION AND PURIFICATION TECHNOLOGY Volume: ( ) 87 - 95

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## Conferences Papers

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### 2026

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1. Formation of gold nanoparticles, copper nanoparticles from copper tailings and the effect of silver nanoparticles on copper obtained from bioleaching of low-grade sulfide ores

Marzieh Hosseini Nasab

2. Study of diseases caused by metal leaching and treatment methods

Marzieh Hosseini Nasab

### 2020

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3. Evaluation of the NaCl role in laterite chemical leaching using organic and inorganic acids

Marzieh Hosseini Nasab, Mohammad Noaparast, Hadi Abdollahi

4. Optimization of effective parameters in leaching of the most important oxide source containing nickel and cobalt using Design Expert 7 software

Marzieh Hosseini Nasab, Mohammad Noaparast, Hadi Abdollahi

5. Comparison of bio-sulfuric acid with bioorganic acid as a solubilizing agent of nickel and cobalt from iron-rich laterites

Marzieh Hosseini Nasab, Mohammad Noaparast, Hadi Abdollahi

### 2017

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6. Optimization of the effective parameters on the crushing of stones in the blasting of open pit mines

2nd International Conference on Mining engineering and Geo sciences

Marzieh Hosseini Nasab

7. Comparison on two types of EPB and SPB tunneling machines in soft ground

2nd International Conference on Mining engineering and Geo sciences

Marzieh Hosseini Nasab

8. Investigating the Effect of TBM Blade Geometry Neural Network and NTH Methods At TBM Infiltration Rate (Case Study)

2nd International Conference on Mining engineering and Geo sciences

Marzieh Hosseini Nasab

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## Research Project

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1. Optimizing the parameters affecting on the thickener design to recycle water and prevent of environm

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