



Bijan Taheri

Assistant Professor

College: Faculty of Engineering

Department: Mining Engineering

Education

Degree	Graduated in	Major	University
BSc	2006	Mining Engineering	Yazd University
MSc	2009	Mineral Processing	Tarbiat Modares University
Ph.D	2013	Mineral Processing	Tarbiat Modares University

Employment Information

Faculty/Department	Position/Rank	Employment Type	Cooperation Type	Grade
(not set)	(not set)	Tenure Track	Full Time	10

Work Experience

Work Experiences:

Head of Mining Engineering Department at University of Kashan (2017)

Subjects Taught

Teaching Experiences:

- Flotation.
- Advanced Hydrometallurgy.
- Surface Phenomena in Mineral Processing.
- Applied Hydrometallurgy (Concentration, Purification and Precipitation).
- Plant Design and Operations in Mineral Processing.
- Solution Chemistry.
- Thermodynamic in Mineral Processing.
- Analytical Methods and Instruments in Mining Engineering.

- Applied Fluid Mechanics in Mining Engineering.
- Numerical Calculations.
- Statistics and Probabilities in Engineering Aspects.

Executions And Scientific Activities

Research Experiences:

- Selective flotation of molybdenite and copper sulfides.
- Coal flotation.
- Flotation of hematite.
- Flotation of fluorite.
- Controlled potential flotation.
- Sulfur removal from iron ore concentrate.
- Optimization of grinding circuit of Gol-e-Gohar iron complex.
- Optimization of flotation circuit of Sarcheshmeh copper complex.
- Removal of heavy metal ions from wastewaters.
- Enrichment of REEs from phosphate concentrate
- Direct atmospheric leaching of zinc sulfide concentrates.
- Investigation of water quality on copper heap leaching.

Papers in Conferences

1. بیژن طاهری، مروری بر استحصال هیدرومتالورژیکی منیزیم از منابع سرپانتینی، دوازدهمین کنفرانس مهندسی معدن ایران، ۱، کاشان، ۲۰۲۴، ۲۱۰۲.
2. ایمان دهقان، بیژن طاهری، علی بهرامی سامانی، سیمیندخت شیروانی آرانی، بررسی روش کروماتوگرافی استخراجی به منظور جداسازی رادیولانتانیدها از محصولات شکافت - اورانیوم ۵۳۲، دوازدهمین کنفرانس مهندسی معدن ایران، ۱، کاشان، ۲۰۲۴، ۲۱۰۲.
3. منیره حشامی، بیژن طاهری، بررسی اثر گلیسین بر بازیابی طلا در کانسنگ سولفیدی مس - طلا دار، چهل و دومین گردهمایی (همایش) ملی علوم زمین، ۱، تهران، ۲۰۲۴، ۲۰۰۲.
4. Maryam Naderi Noukabadi, Flotation behaviors of chalcopyrite and pyrite in the presence of thiourea-based collectors, 12th Iranian Mining Engineering Conference, 1 - 21 02 2024, کاشان.
5. Bijan Taheri, Mahmoud Abdollahy, Sied Ziaedin Shafaei Tonkaboni, Soheyla Javadian, and Mohammadreza Yarahmadi. Investigating the Effect of Pulp Potential on the Flotation Behavior of Chalcopyrite in the Presence of Sodium Hydrosulphide. 5th Iranian Conference of mining Engineering, Tehran, October ۲۰۱۴.
6. Fereshteh Khani Garmsiri, Ali Akbar Abdollahzadeh, Bijan Taheri, Monireh Heshami. Investigation of effective parameters influence on hematite and silica flotation by hallimond tube. 5th International Mine and Mining Industries Congress and 7th Iranian Mining Engineering Conference, Tehran, November ۲۰۱۸.
7. Reza Kohan, Bijan Taheri, Behrouz Maghsodi. The feasibility study of metallurgical improvement of second enrichment plant of Sarcheshmeh copper complex by transportation of first unit enriched rougher concentrates to culomn cell feed. ۴th International Mine & Mining Industries Congress & ۶th Iranian Mining Engineering Conferences, Tehran, November ۲۰۱۶.
8. Bijan Taheri, Mahmoud Abdollahi. Electrochemical Behavior of Collectorless Flotation of Chalcopyrite in Alkaline Medium. ۴th International Mine & Mining Industries Congress & ۶th Iranian Mining Engineering Conferences, Tehran, November ۲۰۱۶.

9. Ehsan Zareian, Bijan Taheri, Majid Lotfalian, ali riahi. Effect of water sources and their chemical compounds on copper dissolution in bottle roll tests. 4th International Mine & Mining Industries Congress & 6th Iranian Mining Engineering Conferences. Tehran. November 2016.
10. Hossein Faraji, Bijan Taheri, Aliakbar Abdollahzadeh. Investigating the Optimum Electrochemical Conditions for Pyrite Removal from Iron Ore Using Sulfhydryl Collectors. 3rd International Conference of Iron Ore. Tehran. November 2015.
11. Bijan Taheri, Mahmoud Abdollahy. Investigating the Electrochemical Behavior of Chalcocite Using Cyclic Voltammetry. 33rd National Geoscience Symposium. Tehran. February 2015.
12. Ramin Banihashemi, Bijan Taheri, Seyed Mohammad Razavian, Faraz Soltani. Selective leaching of rare earth elements from P and Ca of Esfordi phosphate concentrate in nitrate media. The 36th National and the 3rd International Geological Congress of Iran. 25-27 February 2018.
13. Abdollahy, M., Taheri, B., Khodadadi, A., Zeidabadi, S. The Possibility of Using Thioglycolic acid instead of sodium sulfide in the Molybdenum Enrichment Plant of Sarcheshmeh Copper Complex. 6th International Congress on Chemical Engineering. Kish. 2009.

Papers in Journals

1. منیره حشامی، بیژن طاهری، An experimental study on the adsorption behavior of gold glycinate complex on graphene oxide, Hydrometallurgy, 2023 11 16, SCOPUS ,JCR.
2. منیره حشامی، بیژن طاهری، An experimental study on the adsorption behavior of gold glycinate complex on graphene oxide, Hydrometallurgy, 2023 11 16, SCOPUS ,JCR.
3. Hossein Faraji, Bijan Taheri, Aliakbar Abdollahzadeh. Desulfurization of the Gole Gohar iron ore by controlling the electrochemical conditions of pulp. Iranian Journal of Mining Engineering (IRJME). 2018.
4. Bijan Taheri, Mahmoud Abdollahy, Sied Ziaedin Shafaei Tonkaboni, Soheyla Javadian. Investigating the Flotation Behaviour of Chalcopyrite in the Presence of Sodium Sulphide under Controlled Potential. Iranian Journal of Mining Engineering (IRJME). 2014.
5. Bijan Taheri, Mahmoud Abdollahy, Sied Ziaedin Shafaei Tonkaboni, Soheyla Javadian. Flotation Separation of Chalcocite from Pyrite Using Controlled Redox Potential. Journal of Separation Science and Engineering. 2013.
6. Abdollahy, M., Taheri, B., Khodadadi, A., Zeidabadi, S., Eslami, A. Separation of Molybdenite from Copper Sulfide Concentrates Using Thioglycolic Acid as a Depressant. Iranian Journal of Mining Engineering (IRJME). 2011.
7. Bijan Taheri, Majid Lotfalian. Effect of Ultrasonic Pre-treatment and Aeration on Flotation Separation of Chalcopyrite from Pyrite. Iranian Journal of Chemistry and Chemical Engineering, in press.
8. Bijan Taheri, Farideh Rezaei, Nasrin Shadjou, Ahmad Hassanzadeh. A molecular analysis on nitrile-based collectors and their application to chalcopyrite flotation. Minerals Engineering, Vol. 186, pp. 107763, 2022 07 31.
9. Bijan Taheri, Mohammad Hossein Darvishnejad, Farideh Rezaei. Depression Effect of Thioglycolic Acid (TGA) on Flotation Separation of Molybdenite from Copper Sulfides with different Collectors: An Experimental and Theoretical Study. ChemisrySelect, Vol. 7, No. 11, 2022 03 21.
10. Seyed Ramin Banihashemi, Bijan Taheri, Seyed Mohammad Razavian, Faraz Soltani. Nitrophosphate Solution Purification by Calcium Precipitation as Gypsum. Journal of Minerals, Metallurgy, and Materials (JOM), pp. 1-5, 2020 09 16.
11. Ehsan Zareian, Bijan Taheri, Marjan Azghadi. Feasibility Study of Alternative Water Sources for Well Water in Heap Leaching Process. World of Mining - Surface and Underground, Vol. 72, No. 3, pp. 2-7, 2020 02 26.
12. Behrouz Maghsodi Reza Kohan, Bijan Taheri, Monireh Heshami. Feasibility Study on the Modification and Improvement of Flotation Circuits at Enrichment Plant 2 of the Sarcheshmeh Copper Complex. Mining, Metallurgy & Exploration, Vol. 2, No. 37, pp. 1-12, 2020 01 22.
13. Seyed Ramin Banihashemi, Bijan Taheri, Seyed Mohammad Razavian, Faraz Soltani. Selective Nitric

- Acid Leaching of Rare-Earth Elements from Calcium and Phosphate in Fluorapatite Concentrate, *Journal of Minerals, Metallurgy, and Materials (JOM)*, Vol. 71, No. 12, pp. 4578-4587, 2019 06 19.
14. Bijan Taheri, Majid Lotfalian, Effect of Ultrasonic Pre-Treatment and Aeration on Flotation Separation of Chalcopyrite from Pyrite, *Iran. J. Chem. Chem. Eng.*, Vol. 37, No. 5, pp. 199-207, 2018 10 07.
 15. Bijan Taheri, Mahmoud Abdollahy, Sied Ziaedin Shafaei Tonkaboni, Soheyla Javadian, and Mohammadreza Yarahmadi, Dual Effects of Sodium Sulphide on the Flotation Behavior of Chalcopyrite, I: Effect of Pulp Potential, *International Journal of Minerals, Metallurgy, and Materials*, 2014.