

Bijan Taheri

(Engineering Department of University of Kashan)

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Professional Summary:

Assistant Professor in Mineral Processing Engineering, University of Kashan

Education:

Ph.D. of Mineral Processing Engineering (*Sep 2009-Aug 2013*)

Tarbiat Modares University, Tehran, IRAN

Thesis Title:

Controlled Potential Flotation of Copper Sulphide Minerals Using Sulphur Bearing Reagents

M.Sc. of Mineral Processing Engineering (*Sep 2006-Jan 2009*)

Tarbiat Modares University, Tehran, IRAN

Thesis Title:

Determining A Suitable Alternative for Sodium Sulfide to be Used in Molybdenum Enrichment Plant of Sarcheshmeh Copper Complex

B.Sc. of Mining Engineering (*Sep 2002-Aug 2006*)

Yazd University, Yazd, IRAN

Thesis Title:

Statistical Modeling of Western Wall of Choqart Mine

Research Interests:

- Hydrometallurgy
- Flotation

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.

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 Mechanic in Mining Engineering.
- Numerical Calculations.
- Statistics and Probabilities in Engineering Aspects.

Publications:

Journals Articles:

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).

Hossein Faraji, **Bijan Taheri**, Aliakbar Abdollahzadeh, Desulfurization of the Gole Gohar iron ore by controlling the electrochemical conditions of pulp (in Persian), *Iranian Journal of Mining Engineering (IRJME)*, Vol. 4, No. 36, 2018, pp. 1-15.

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)*, Vol. 9, No. 24, 2014, pp. 1-15.

Bijan Taheri, Mahmoud Abdollahy, Sied Ziaedin Shafaei Tonkaboni, Soheyla Javadian, Flotation Separation of Chalcocite from Pyrite Using Controlled Redox Potential (in Persian), *Journal of Separation Science and Engineering*, Vol. 5, No. 1, 2013, pp. 35-47.

Abdollahy, M., **Taheri, B.**, Khodadadi, A., Zeidabadi, S., Eslami, A., Separation of Molybdenite from Copper Sulfide Concentrates Using Thioglycolic Acid as a Depressant (in Persian), *Iranian Journal of Mining Engineering (IRJME)*, Vol. 6, No. 12, 2011, pp. 31-40.

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*, Volume 21, Number 5, May 2014, Page 415.

Conferences Articles:

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 (in Persian); *The 36th National and the 3rd International Geological Congress of Iran, 25-27 February 2018., Iran-Tehran.*

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 column cell feed (in Persian); *4th International Mine & Mining Industries Congress & 6th Iranian Mining Engineering Conferences, (November 2016), Iran-Tehran.*

Bijan Taheri, Mahmoud Abdollahy; Electrochemical Behavior of Collectorless Flotation of Chalcopyrite in Alkaline Medium (in Persian); *4th International Mine & Mining Industries Congress & 6th Iranian Mining Engineering Conferences, (November 2016), Iran-Tehran.*

Ehsan Zareian, **Bijan Taheri**, Majid Lotfalian, ali riahi; Effect of water sources and their chemical compounds on copper dissolution in bottle roll tests (in Persian); *4th International Mine & Mining Industries Congress & 6th Iranian Mining Engineering Conferences*, (November 2016), Iran-Tehran.

Hossein Faraji, **Bijan Taheri**, Aliakbar Abdollahzadeh, Investigating the Optimum Electrochemical Conditions for Pyrite Removal from Iron Ore Using Sulfhydryl Collectors (in Persian), *3rd International Conference of Iron Ore*, (November 2015), Iran-Tehran.

Bijan Taheri, Mahmoud Abdollahy, Investigating the Electrochemical Behavior of Chalcocite Using Cyclic Voltammetry (in Persian), *33rd National Geoscience Symposium*, (February 2015), Iran-Tehran.

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 (in Persian), *5th Iranian Conference of mining Engineering*, (October 2014), Iran-Tehran.

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*, 2009, kish, Iran.

Industrial Projects and Activities:

Feasibility study of an iron ore processing from Tange Zagh mine in Iran (2017).

Work Experiences:

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