

## **Mehdi Mohseni**

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## **Educational Records**

B.Sc. Mineral Exploitation, Sahand University of Technology, Tabriz, Iran.

M.Sc. Mineral Processing, Tarbiat Modares University, Tehran, Iran.

Ph.D. Mineral Processing, Tarbiat Modares University, Tehran, Iran.

## **Academic Experiences**

Assistant professor Tarbiat Modares University, Tehran, Iran.

## **Research Interests**

Flotation

Surface Chemistry of Minerals

Processing of Metallic and Industrial mineral Resources

## **Journal and Conference Papers**

- M. Mohseni, M. Abdollahy, R. Poursalehi, M. R. Khalesi, An insight into effect of surface functional groups on reactivity of Sphalerite (110) surface with Xanthate collector: a DFT study, *Journal of Mining & Environment*, 2017.
- M. Mohseni, M. Abdollahy, R. Poursalehi, M. R. Khalesi, Quantifying the spreading factor to compare the wetting properties of minerals at molecular level – case study: sphalerite surface, *Physicochemical Problems of Mineral Processing*, 2017.
- S. Saeidnia, G. Asadollahfardi, A.Khodadadi Darban, M. Mohseni, Simulation of antimony adsorption on nano-zero valent iron and kaolinite and analyzing the influencing parameters, *water Science & Technology*, 2016.
- F. Moosakazemi, M.R.Tavakoli, M. Mohseni, M. Zakeri, Effect of design and operational parameters on particle morphology in ball mills, *International Journal of Mineral Processing*, 2017.

- S .Razmjooei, M. Abdollahy, M. R. Khalesi, M. Mohseni, The effect of cross section of mechanical flotation cells on the height of turbulent and quiescent zones, International Journal of Mining Science (IJMS), 2017.
- M. Mohseni, M. Abdollahy, S. M. Koleini, The effects of shape properties on hydrophobicity of chalcopyrite particles, 22nd World Mining Congress & Expo, 2012.
- M. Mohseni, M. Abdollahy, S. M. Koleini, Apparent hydrophobicity of chalcopyrite particles produced with different laboratory mills, IMPC2012.
- R. Aram, M. Mohseni, Tailing characterization studies of Semirom kaolin processing plant to produce valuable products, 32<sup>nd</sup> National & The International Geoscience Congress. 2014.
- Application of statistical tests in analyzing the results of crushed chalcopyrite particles with different shapes, Journal of Analytical and Numerical Methods in Mining and Materials Engineering.
- Investigation on the relationship between critical surface tension of chalcopyrite and particle geometry, National Copper Conference.
- Investigation on the effect of chalcopyrite particle geometry on their floatability, 26th Earth Sciences Conference.
- Evaluation of the effect of feed and ball size on particle geometrical parameters in ball mill, National Conference on Mineral Sciences.
- Measurement of Sphalerite surface tension components at different pHs, 6th Mining Engineering Conference.
- Presenting a new method to predict hydrophobicity of minerals using surface species distribution, Thirty-third geoscience congress.

### **Courses taught**

- Flotation and Laboratory
- Advanced Flotation
- Processing of Industrial Minerals

### **Research Projects**

- Feasibility of producing a valuable product from the tailings of Kaolin processing plant.
- Achieve optimum laboratory conditions for iron and copper extraction from Taknar copper ore

- Feasibility of Semirom kaolin processing according to the requirements of the paper industry
- Laboratory scale gold ore Processing of Fadak Kosar Company.
- Pilot-scale processing of gold ore processing of Fadak Kosar Company.
- Processing of iron ore plates up to 67% on pilot scale.
- Feasibility study on the production of 67% iron concentrate concentrate from iron placer ore in laboratory scale.
- Co-Worker in Research project titled Feasibility study of graphite processing in Iran.