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COLLEGE OF ENGINEERING

Mining & Geological Engineering

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Courses

Srf Chem Of Flotation

MNE 539 (Spring 2018)

MNE 439 (Spring 2018)

MNE 439 (Spring 2017)

MNE 539 (Spring 2017)

Mineral Processing Lab

MNE 411L (Spring 2018)

MNE 411L (Spring 2017)

MNE 511L (Spring 2017)

Mineral Processing

MSE 411 (Fall 2017)
 MNE 511 (Fall 2017)
 MNE 411 (Fall 2017)
 MSE 511 (Fall 2016)
 MSE 411 (Fall 2016)
 MNE 411 (Fall 2016)
 MNE 511 (Fall 2016)

Independent Study

MNE 599 (Fall 2017)

Dissertation

MNE 920 (Spring 2017)
 MNE 920 (Fall 2016)

Selected Publications

Chapters

- Zhang, J., & Zhang, W. (2014). An Atomic Force Microscopy Study of the Adsorption of Collectors on Chalcopyrite. In *Microscopy: advances in scientific research and education*(pp 967-973). ISBN 978-84-942134-4-1: Formatex Research Center.
- Zhang, J., & Zhang, W. (2010). Applying an Atomic Force Microscopy in the Study of Mineral Flotation. In *Microscopy: Science, Technology, Applications and Education*(pp 2028-2034). ISBN-13: 978-84-614-6191-2: Formatex Research Center.

Journals/Publications

- Zhang, J., & Zhang, W. (2015). An AFM Study of the Adsorption of Collector on Chalcocite. *2015 SME Annual Meeting and Exhibit, preprint*, 15-138.
- Zhang, J., Zhang, W., An, D., & Feng, Q. (2014). A study of geopolymerization of mine tailings as construction materials. *XXVII Internal Mineral Processing Congress*, #586.
- Zhang, J., Zhang, W., Feng, Q., & An, D. (2014). An AFM Study of the Adsorption of Oleic Acid on Fluorite. *2014 SME Annual Meeting and Exhibit, preprint*.
- Zhang, J., & Zhang, W. (2012). Adsorption of collectors on chalcopyrite surface studied by an AFM. *Separation Technologies for Minerals, Coal, and Earth Resources*, 65-73.
- Zhang, J., & Zhang, W. (2012). An AFM study of collectors' adsorption on minerals in copper/molybdenum flotation. *2012 SME Annual Meeting and Exhibit 2012, SME 2012, Meeting Preprints*, 547-552.
- Zhang, J., & Zhang, W. (2012). Multi-scale investigation of applying secondary effluent in sulfide flotation. *Water in Mineral Processing - Proceedings of the 1st International Symposium*, 279-290.
- Zhang, J., Ahmari, S., & Zhang, L. (2012). 'Effects of activator type/concentration and curing temperature on alkali-activated binder based on copper mine tailings. *Journal of Materials Science*, 47, 5933-5945.
- Siddiqui, S., Zhang, J., Keswani, M., Fuerst, A., & Raghavan, S. (2011). Study of interaction between silicon surfaces in dilute ammonia peroxide mixtures (APM) and their components using atomic force microscope (AFM). *Microelectronic Engineering*, 88(12), 3442-3447.
- Zha, Z., Cohn, C., Dai, Z., Qiu, W., Zhang, J., & Xiaoyi, W. u. (2011). Nanofibrous lipid membranes capable of functionally immobilizing antibodies and capturing specific cells. *Advanced Materials*, 23(30), 3435-3440.
- Zhang, J. (2011). Synthesis and characterization of mine tailings-based geopolymers. *Construction and Building Materials*, 25(9), 3773-3781.
- Zhang, J., Cohn, C., Qiu, W., Zha, Z., Dai, Z., & Xiaoyi, W. u. (2011). Atomic force microscopy of electrospun organic-inorganic lipid nanofibers. *Applied Physics Letters*, 99(10).
- Zhang, J., & Zhang, W. (2010). An AFM study of chalcopyrite surface in aqueous solution. *SME Annual Meeting and Exhibit 2010*, 535-539.
- Zhang, J., Wiyono, S., Lee, P., & Xiao, W. (2009). Surface characterization of xanthate adsorption on molybdenite. *SME Annual Meeting and Exhibit and CMA's 111th National Western Mining Conference 2009*, 2, 485-490.
- Zhang, J., & Yoon, R. (2008). An AFM study of the surface force between TiO₂ surfaces in C_NTACL solutions. *Hydrometallurgy 2008: Proceedings of the 6th International Symposium*, 1134-1142.
- Zhang, J., Yoon, R., & Eriksson, J. C. (2007). AFM surface force measurements conducted with silica in C_nTACL solutions: Effect of chain length on hydrophobic force. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, 300(3 SPEC. ISS.), 335-345.

Proceedings Publications

- Zhang, J., & Zhang, W. (2018, September). An AFM Study of the Adsorption of Amyl Xanthate on Copper Sulfides. In *XXIX Internal Mineral Processing Congress*.
- Zhang, J., & Feng, Q. (2016, Feb 21-Feb 24). Applying the mixture of mine tailings and fly ash as construction materials. In *2016 SME Annual Meeting and Exhibit, preprint*.
- Zhang, J., & Zhang, W. (2016, Feb 21-Feb 24). An AFM Study of the Adsorption of Collector on Bornite. In *2016 SME Annual Meeting and Exhibit, preprint*.
- Zhang, J., & Zhang, W. (2016, September). An AFM Study of the Adsorption of Ethyl Xanthate on Copper Sulfides. In *XXVIII Internal Mineral Processing Congress*.