

## Publications

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Ph.D. Mining and Minerals Engineering, Virginia Polytechnic Institute and State University, 2006  
*Major Fields:* Minerals processing

#### Journal Paper

Jinhong Zhang, Roe-Hoan Yoon and Jan Christer Eriksson, "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*, 2007, 300, 3, P335-345

Jinhong Zhang, Roe-Hoan Yoon, Min Mao and William A. Ducker, "Effects of Degassing and Ionic Strength on AFM Force Measurements in Octadecyltrimethylammonium Chloride Solutions", 2005, *Langmuir* 21, 5831-5841.

Min Mao, Jinhong Zhang, Roe-Hoan Yoon, and William A. Ducker; "Is There a Thin Film of Air at the Interface between Water and Smooth Hydrophobic Solids?", *Langmuir* 2004, 20, 1843-1849.

Min Zeng and Jinhong Zhang, "Study of the removal of Ti and Fe from the coal measure kaolin by roasting", *China Mining*, 1998, vol. 7, 3, 48-50.

Min Zeng and Jinhong Zhang, "Chlorination and roasting of the coal measure kaolin", *Coal Processing and Comprehensive Utilization*, 1997, 2, 20-22.

Xuxin Shao, Zexue Du, Zhendong Liu and Jinhong Zhang, "Study of desulfuration of fine coal using flotation", *Coal Transaction*, 1996, 2.

Jinhong Zhang and Xuxin Shao, "Resource and utilization of coal-measure kaolin in China", *Chemical Engineering and Technology in Mine*, 1995, 12.

#### Conference Paper

Jinhong Zhang, Sugiharto Wiyono, Paul lee, William Xiao, "Contact Angle and Surface Analysis Studies of Molybdenite", *SME Annual Meeting*, 2009 (Submitted)

Jinhong Zhang, Roe-Hoan Yoon, "Surface Force Measurement between Oxide Surfaces in  $C_nTACl$  Solutions Studied by an AFM", *XXIV Internal Mineral Processing Conference*, Beijing, China, Sept. 24-28, 2008 (Accepted)

Jinhong Zhang, "An AFM Study of the Surface Force between Oxide Surfaces in Aqueous Solutions", 2008 Robert S. Shoemaker International Symposium on Hydrometallurgy, August, 17-20, 2008, Phoenix, AZ (Accepted)

Jinhong Zhang, Roe-Hoan Yoon, "Determination of the basal and edge surface free energies of talc using the acid/base theory", 81st ACS Colloid & Surface Science Symposium, June 24-27, 2007, Newark, DE

Jinhong Zhang, Roe-Hoan Yoon and Jan Christer Eriksson, "Adsorption of Cationic Surfactants on Silica Studied by AFM: Surface Forces and Images", 45th Conference of Metallurgists, October 1-4, 2006, Montréal, Québec, Canada

Jinhong Zhang, Roe-Hoan Yoon and Jan Christer Eriksson, “*Effect of Surfactant Chain Length on the Long-Range Attractive Force*”, XIIIth International Conference on Surface Forces, June 28 - July 4, 2006 Moscow, Russia

Emilio Lobato, Jinhong Zhang, Ismail Yildirim, Roe-Hoan Yoon and Jorge Yordan, “*Characterization of Surface Free Energies of Talc Powders using Thin-Layer Wicking Technique*”, SME Annual Meeting, March, 2006

Jinhong Zhang, Roe-Hoan Yoon, Min Mao and William A. Ducker, “*Effect of Dissolved Gas on the Force between Silica and Glass in Aqueous Octadecyltrimethylammonium Chloride Solutions*”, Centenary of Flotation, Brisbane Australia, June 5-9 2005

Ismail Yildirim, Jinhong Zhang, and Roe-Hoan Yoon, “*Effect of Surface Treatment on the Acid-base Properties of Fillers and Pigments*”, SME Annual Meeting, 2003

### **Scholarly Presentations**

Jinhong Zhang, “*A study of Surface Chemistry in Minerals Processing*”, Oct 12, 2006, Phelps Dodge Process Technology Center, Safford, AZ

Jinhong Zhang and Roe-Hoan Yoon, “*Direct Force Measurement in Flotation*”, July 25, 2006, National Energy Technology Laboratory (NETL), Morgantown, WV