

MD ABDUS SABUR

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Education

PhD Student, Earth and Environmental Sciences, University of Waterloo, Canada
Start date || September 2014
Research Supervisor: Professor Philippe Van Cappellen

Master of Science in Chemistry
Wilfrid Laurier University, Canada || 2014
Research Supervisor: Dr. Hind A. Al-Abadleh
Thesis Title: Surface Complexation of Monosubstituted Organoarsenicals on Hematite: ATR-FTIR Investigations

Scholarships and Awards

- ❖ RBC Water Scholars Graduate Entrance Scholarship || 2014-2015
- ❖ Science Master's Degree Gold Medal, Wilfrid Laurier University || Spring 2014
- ❖ Researchers of Laurier Award, GSA, Wilfrid Laurier University || February 2014

Publications

1. **Sabur, M.A.** and Al-Abadleh, H.A. (2015) Surface Interactions of Monomethylarsonic Acid with Hematite Nanoparticles Using ATR-FTIR: Adsorption and Desorption Kinetics, Canadian Journal of Chemistry, 93: 1-8.
2. **Sabur, M.A.**, Goldberg, S., Gale, A., Kabengi, N. and Al-Abadleh, H.A. (2015). Temperature-Dependent Infrared and Calorimetric Studies on Arsenicals Adsorption from Solution to Hematite Nanoparticles, Langmuir. 31(9), 2749–2760
3. Arts, D., **Sabur, M.A.**, and Al-Abadleh, H.A. (2013) Surface interactions of aromatic organoarsenical compounds with hematite nanoparticles using ATR-FTIR: kinetic studies. Journal of Physical Chemistry A. 117(10): 2195-2204

Conference Presentations

Note: presenter is underlined

1. "Does silica control the mobilization of phosphorus from Fe(III)- (hydr)oxides?"
M. A. Sabur, C. T. Parsons and P. Van Cappellen, presented at Goldschmidt conference in Paris, France (August 18, 2017)
2. "Phosphate Adsorption on Hematite Nanoparticles in the Absence and Presence of Surface Arsenic" H.A. Al-Abadleh, J. Tofan-Lazar and M. Abdus Sabur. A talk in the Metals and Metalloids in the Environment Symposium at the 97th Canadian Chemistry Conference and Exhibition in Vancouver, B.C. (June 2014)
3. "Surface Interactions of Aromatic Organoarsenicals with Hematite Nanoparticles Using ATR-FTIR Spectroscopy" Md Abdus Sabur and Hind A. Al-Abadleh. A presentation at the Water Initiative for the Future Conference at Queen's University (May 2014)
4. "Surface Interactions of Aromatic Organoarsenicals with Hematite Nanoparticles Using ATR-FTIR Spectroscopy" Md Abdus Sabur and Hind A. Al-Abadleh. A poster at the World Water Day Graduate Research Fair & Water Celebration at the University of Waterloo, Centre for Environmental and Information Technology (EIT) (March 2014)