

Selected articles - Metal sorption and transport

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1. Hoffmann, M., Mikutta, C., and Kretzschmar, R. (2014): Arsenite binding to sulfhydryl groups in the absence and presence of ferrihydrite: A model study. *Environ. Sci. Technol.* 48: 3822-3831. [Full text](#)
2. Hoffmann, M., Mikutta, C., and Kretzschmar, R. (2013): Arsenite binding to natural organic matter: Spectroscopic evidence for ligand exchange and ternary complex formation. *Environ. Sci. Technol.* 47: 12165-12173. [Full text](#)
3. Maurer, F., Christl, I., Fulda, B., Voegelin, A., and Kretzschmar, R. (2013): Copper redox transformation and complexation by reduced and oxidized soil humic acid: 2. Potentiometric titrations and dialysis cell experiments. *Environ. Sci. Technol.* 47: 10912-10921 [Full text](#)
4. Elzinga, E.J., and Kretzschmar, R. (2013): In situ ATR-FTIR spectroscopic analysis of the co-adsorption of orthophosphate and Cd(II) onto hematite. *Geochim. Cosmochim. Acta.* 117: 53-64. [Full text](#)
5. Christl, I., Brechbühl, Y., Graf, M., and Kretzschmar, R. (2012): Polymerization of silicate on hematite surfaces and its influence on arsenic sorption. *Environ. Sci. Technol.* 46: 13235-13243. [Full text](#)
6. Maurer, F., Christl, I., Hoffmann, M., and Kretzschmar, R. (2012): Reduction and reoxidation of humic acid: Influence on speciation of cadmium and silver. *Environ. Sci. Technol.* 46: 8808-8816. [Full text](#)
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9. Langner, P., Mikutta, C., and Kretzschmar, R. (2012): Arsenic sequestration by organic sulphur in peat. *Nature Geoscience* 5: 66-73. [Full text](#)
10. Huang, J.-H., Voegelin, A., Pombo, S.A., Lazzaro, A., Zeyer, J., and Kretzschmar, R. (2011): Influence of arsenate adsorption to ferrihydrite, goethite, and boehmite on the kinetics of arsenate reduction by *Shewanella putrefaciens* strain CN-32. *Environ. Sci. Technol.* 45: 7701-7709. [Full text](#)
11. Huang, J.-H., Elzinga, E.J., Brechbuehl, Y., Voegelin, A., and Kretzschmar, R. (2011): Impacts of *Shewanella putrefaciens* strain CN-32 cells and extracellular polymeric substances on the sorption of As(V) and As(III) on Fe(III)-(hydr)oxides. *Environ. Sci. Technol.* 45: 2804-2810. [Full text](#)
12. Maurer, F., Christl, I., and Kretzschmar, R. (2010): Reduction and reoxidation of humic acid: Influence on spectroscopic properties and proton binding. *Environ. Sci. Technol.* 44: 5787-5792. [Full text](#)
13. Weber, F.-A., Voegelin, A., and Kretzschmar, R. (2009): Multi-metal contaminant dynamics in temporarily flooded soil under sulfate limitation. *Geochim. Cosmochim. Acta* 73: 5513-5527. [Full text](#)
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