

# Hui Lin

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## EDUCATION

2012	Georgia Institute of Technology	Ph.D.	Geochemistry
2006	Peking University	MS	Environmental Chemistry
2003	Peking University	BS	Environmental Chemistry

## PROFESSIONAL POSITIONS

2012 - present Postdoctoral Research Associate, Environmental Sciences Division, Oak Ridge National Laboratory. Investigated the effects of dissolved organic matter (DOM) and microorganisms on the redox transformation and the methylation of mercury.

2006 - 2012 Graduate Research Assistant, School of Earth and Atmospheric Sciences, Georgia Institute of Technology, Atlanta, GA. Investigated the effects of Mn reduction on the redox cycles of carbon and nitrogen in anaerobic systems and studied the mechanisms of anaerobic respirations of solid Mn(IV) by combining chemical speciation, kinetic analysis, and mutagenesis techniques.

2003 - 2006 Graduate Research Assistant, Laboratory for Earth Surface Process, Peking University, Beijing, China. Investigated the adsorption and uptake of poly-aromatic hydrocarbons (PAHs) by maize in contaminated air or soil and the internal migration of PAHs among different maize tissues (leaves, stems, or root).

2001 - 2003 Undergraduate Research Assistant, Laboratory for Earth Surface Process, Peking University, Beijing, China. Investigated the roles of dissolved organic compounds (DOC) on the adsorption and assimilation of copper by plant roots.

## PROFESSIONAL SERVICE, AFFILIATIONS, AND HONORS

**Affiliations:** American Chemical Society (ACS) and the Geochemistry Society

**Honors:** Excellent Graduate of Peking University (2006 & 2003)

**Services:** Lab supervisor (2009-2012) and teaching assistant (2008) at Georgia Institute of Technology

## PUBLICATIONS

H. Lin, N. Szeinbaum, T. DiChristina, and M. Taillefert. Microbial Mn(IV) reduction requires an initial one-electron reductive solubilization step. *Geochimica et Cosmochimica Acta*, 99, 179-192, 2012.

Lin H, Tao S, Zuo Q. Uptake of polycyclic aromatic hydrocarbons by maize plants. *Environmental Pollution*, 148(2), 614-619, 2007.

Q. Zuo, H. Lin, X.L. Zhang, Q.L. Li, S.Z. Liu, S. Tao. A two-compartment exposure device for foliar uptake

study. *Environmental Pollution*. 143(1), 126-128, 2006.

Lin H., Cao J., Tao S.. Influence of Dissolved Organic Matter (DOM) on the Process of Adsorbing and Assimilating Copper by Roots of Maize. *Journal of Agro-Environment Science*. 23(6), 1061-1064, 2004.

**FORMER ADVISORS:** Dr. Shu Tao (Master, Peking University) and Dr. Martial Taillefert (Ph.D, Georgia Institute of Technology)

**POSTDOCTORAL ADVISOR:** Dr. Baohua Gu (Oak Ridge National Lab)