

FEATURED MEMBERS

1. *My career path?*

I received all my degrees from Peking University, China. For Ph.D. study, I worked on the bioavailability of hydrophobic organic pollutants under the supervision of Dr. Shu Tao. During my Ph.D. period, I also spent one year at University of California, Riverside and half year at Hong Kong Baptist University as a visiting student. After graduation in 2010, I came to United States for postdoctoral training. I did two postdoc projects in three labs at Yale University and University of Notre Dame. Since Oct 2013, I started my own career as an assistant professor at University of Nevada, Reno.

2. *Current research areas, interests, and projects?*

My group is mainly focused on the dynamics of organic carbon and emerging pollutants during redox reactions. Under this umbrella, we are mainly working on three directions: dynamics of organic carbon during the anaerobic-aerobic transitions, microbial degradation and plant uptake of carbon nanotube, and reductive degradation of emerging organohalogen. For carbon dynamics, we spent efforts on studying the impact of redox reactions of Fe on the degradation and mineralization of organic carbon, targeting improvement of current process-based model prediction for carbon cycles. In term of carbon nanotube project, my group studied the microbial (oxidative) degradation of carbon nanotubes and their uptake by agricultural plants. We are also tackling the challenge of quantifying carbonaceous nanomaterials in natural environment. As the third major direction, we have studied the organic matter (including biochar)-mediated dehalogenation reactions. I am also collaborating with colleagues on wastewater reuse in agricultural field, organic nitrogen removal from wastewater, and degradation of polymeric substances.

3. *Courses you normally teach?*

I have taught Environmental Chemical Kinetics, Water Quality Analysis (Lab), Environmental Chemistry: Concepts and Design, Principles for Water Quality Modeling, and a special topic class Anthropogenic Contaminants.

4. *My professional activities?*

I am a member of ACS, SSSA, AGU, AEESP, CAPEES. I am a guest editor for Chemical Geology and Soil Processes, an associate editor for Journal of Environmental Quality, and an editorial board member for Scientific Reports and Chemosphere. I am also editing an IUPAC-WILEY book.

5. *Major attractions and cultural environment of your area and/or community?*

Reno is well known as "the biggest little city in the world", with a unique location and access to many outdoor activities, such as ski, fishing, hiking, and etc. It is around half-hour drive from Lake Tahoe.

6. *Key factors that lead to your career today?*

Persistence might be the key factor for my career development.



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