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Education:

PhD: Soil Science MS: Soil science BS: Soil Science

General Areas of Expertise:

Fate and transport of contaminant, soil hydrology, soil carbon management, plant-water relation and modeling

Short Bio:

Dr. Zhuang is a full professor in the Department of Biosystems Engineering and Soil Science at the University of Tennessee, joint professor in Chinese Academy of Sciences' Institute of Applied Ecology, managing director of the China-US Joint Research Center for Ecosystem and Environmental Change, and coordinator-general of China-US Doctoral Environment and Energy Program, which is jointly sponsored by China Scholarship Council and the University of Tennessee. He received B.S, M.S. and Ph.D degrees from Shenyang Agricultural University, China. Over the past three decades, Dr. Zhuang has worked on many challenging innovative research projects in the United States, Japan, and China. His research is focused on the fate and transport of contaminants (viruses, radionuclides, colloids, organics, and munitions constituents) in the environment, soil hydrology, soil carbon management, and plant-water relation and modeling. Dr. Zhuang has been invited to review projects by many national program panels in the United States and China. Dr. Zhuang has published more than 100 referred research papers, served a number of scientific journals as editor or board member, and reviewed manuscripts for more than 50 international journals. He also contributes a significant amount of time to creating opportunities for US-China collaborations in the areas of environmental sustainability and international education. Dr. Zhuang has coordinated numerous China-US bilateral academic exchange activities and chaired dozens of sessions at national and international conferences.

Five Representative Publications:

Shuang Xu, Ramesh Attinti, Elizabeth Adams, Jie Wei, Kalmia Kniel, Jie Zhuang*, Yan Jin*. 2017. Mutually facilitated co-transport of two different viruses through reactive porous media. *Water Research* 123, 40-48.
 Jie Zhuang*, Nadine Goepfert, Ching Tu, John F McCarthy, Edmund Perfect, Larry D. McKay. 2010. Colloid transport with wetting fronts: interactive effects of solution surface tension and ionic strength. *Water Research*, 44, 1270-1278.
 Jie Zhuang*, John F. McCarthy, Edmund Perfect, John Tyner, Markus Flury, Tammo Steenhuis. 2007. In-situ colloid mobilization in Hanford sediments under unsaturated transient flow condition: Effect of irrigation pattern. *Environmental Science and Technology*, 41(9), 3199-3204.
 Jie Zhuang, Jun Qi, Yan Jin*. 2005. Retention and transport of amphiphilic colloids under unsaturated flow conditions: Effect of particle size and surface properties. *Environmental Science and Technology*, 39(20), 7853-7859.
 Jie Zhuang, Yan Jin*, Markus Flury. 2003. Colloid-facilitated cesium transport through water-saturated Hanford sediment and Ottawa sand. *Environmental Science and Technology*, 37(21), 4905-4911.

FEWSTERN Symposium 2017 Presentation Title and Abstract:

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