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**导师简介：**

**教育背景：**

北京清华大学环境学院环境工程学士（1998）

中国科学院生态环境研究中心环境科学硕士（2001）

美国特拉华大学土木与环境工程系环境工程博士（2006）

**工作经历：**

2015-至今，华南理工大学，环境与能源学院，教授

2011-2014，美国华盛顿州立大学，农作物与土壤系，助理研究教授

2009-2010，美国俄勒冈健康科技大学，环境健康研究所，高级研究员

2007-2008，美国太平洋西北国家实验室，地球化学部，博士后

2006-2007，美国特拉华大学，植物与土壤科学系，博士后

**研究方向：**

环境土壤化学、重金属污染物的环境行为和预测模型、天然有机质和矿物动态相互作用对重金属环境行为的影响、环境修复技术

**承担项目：**

1. 国家自然科学基金面上项目，天然有机质 - 铁矿物动态相互作用对典型重金属环境行为的影响；

**学术成果：**

**代表作：**

1. Zhenqing Shi, Pei Wang, Lanfang Peng, Zhang Lin, Zhi Dang. Kinetics of heavy metal dissociation from natural organic matter: roles of the carboxylic and phenolic sites. *Environmental Science and Technology*. 2016, 50 (19), 10476–10484.

2. Zhenqing Shi, D. Fan, R. L. Johnson, P. G. Tratnyek, J. T. Nurmi, Y. Wu, and K. H. Williams. Methods for characterizing the fate and effects of nano zerovalent iron during groundwater remediation. *Journal of Contaminant Hydrology*, 2015, 181, 17-35.

3. Zhenqing Shi, Zsuzsanna Balogh-Brunstad, Michael Grant, James B. Harsh, Richard Gill, Linda Thomashow, Alice Dohnalkova, Daryl Stacks, Melissa Letourneau, and Kent C. Keller. Cation uptake and allocation by red pine seedlings under cation-nutrient stress in a column growth experiment. *Plant and Soil*, 2014, 378 (1), 83-98

4. Zhenqing Shi, Dominic M. Di Toro, Herbert E. Allen, and Donald L. Sparks. A general kinetics model for heavy metal adsorption and desorption on soils. *Environmental Science and Technology*, 2013, 47, 3761–3767.

5. Zhenqing Shi, Edward F. Peltier, and Donald L. Sparks. Kinetics of Ni sorption in soils: roles of soil organic matter and Ni precipitation. *Environmental Science and Technology*, 2012, 46, 2212–2219.

6. Zhenqing Shi, James T. Nurmi, and Paul G. Tratnyek. Effects of nano zerovalent iron (nZVI) on oxidation-reduction potential (ORP). *Environmental Science and Technology*, 2011, 45, 1586–1592.

7. Zhenqing Shi, Chongxuan Liu, John M. Zachara, Zheming Wang, and Baolin Deng. Inhibition effect of secondary phosphate mineral precipitation on uranium release from contaminated sediments. *Environmental Science and Technology*, 2009, 43, 21, 8344–8349.

8. Zhenqing Shi, Dominic M. Di Toro, Herbert E. Allen, and Donald L. Sparks. A WHAM-based kinetics model for Zn adsorption and desorption to soils. *Environmental Science and Technology*. 2008, 42, 5630-5636.

9. Zhenqing Shi, Herbert E. Allen, Dominic M. Di Toro, Suen-Zone Lee, and Steve Lofts. Predicting cadmium adsorption on soils using WHAM VI. *Chemosphere*. 2007, 69, 605-612.

10. Zhenqing Shi, Dominic M. Di Toro, Herbert E. Allen, and Alexander A. Ponizovsky. Modeling kinetics of Cu and Zn release from soils. *Environmental Science and Technology*. 2005, 39, 4562-4568.

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