



First Name: **Cheng**

Last Name: **Gu**

Title: **Professor**

Institution: **Nanjing University**

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**Education:**

PhD: **University of Wisconsin-Madison**

MS: **Nankai University**

BS: **Nankai University**

**General Areas of Expertise:**

**Environmental Chemistry, Soil Interface Chemistry, in situ Spectroscopic Analysis**

**Short Bio:**

Prof. Gu got his Ph.D in Environmental Chemistry from University of Wisconsin-Madison in 2006. After several year postdoc training at Michigan State University, he joined the faculty members in School of the Environment, Nanjing University. Prof. Gu's research focused on the surface reaction of organic contaminants on natural soil minerals. His research group combined the laboratory experiments, state-the-art molecular-scale techniques, and theoretical calculations to seek a fundamental understanding of the interfacial interactions between organic pollutants and soil minerals. Prof. Gu has published over 50 scientific papers in prestigious journals. He has been awarded "National Science Fund for Excellent Young Scholars" and "Thousand Talent Plan Youth Program" et al.

**Five Representative Publications:**

Wang, C.; Gao, J.; Gu, C.\* Rapid destruction of tetrabromobisphenol A by iron(III)-tetraamidomacrocyclic ligand/layered double hydroxide composite/H<sub>2</sub>O<sub>2</sub> system. *Environmental Science & Technology* 2017, 51(1), 488-496.  
Tian, H. T.; Guo, Y.; Pan, B.; Gu, C.\*; Li, H.; Boyd, S. A. Enhanced photoreduction of nitro-aromatic compounds by hydrated electrons derived from indole on natural montmorillonite. *Environmental Science & Technology* 2015, 49, 7784-7792.  
Liu, C.; Gu, C.\*; Yu, K.; Li, H.; Teppen, B. J.; Johnston, C. T.; Boyd, S. A.\*; Zhou, D. M. Integrating structural and thermodynamic mechanisms for sorption of PCBs by montmorillonite. *Environmental Science & Technology* 2015, 49, 2796-2805.  
Gu, C.; Liu, C.; Ding, Y.J.; Li, H.; Teppen, B.J.; Boyd, S.A. Clay mediated route to natural formation of polychlorodibenzo-p-dioxins. *Environmental Science & Technology*, 2011, 45, 3445-3451.  
Gu, C.; Liu, C.; Johnston, C.T.; Li, H.; Teppen, B.J.; Boyd, S.A. Pentachlorophenol radical cations generated by Fe(III)-montmorillonite initiate octachlorodibenzo-p-dioxin formation in clays: Density function theory and Fourier transform infrared studies. *Environmental Science & Technology*, 2011, 45, 1399-1406.

**FEWSTERN Symposium 2017 Presentation Title and Abstract:**

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