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Education:

MS: Environmental Engineering BS: Environmental Engineering **Environmental Engineering**

General Areas of Expertise:

pollution control, solid waste recycling, energy-saving and emission-reduction

Short Bio:

Prof. Dr. Xiaohu Dai was born on November 18th, 1962 in Zhenjiang, Jiangsu. He studied at government's expense in Germany from 1987 and graduated from Civil Engineering Department of RUHR-University Bochum, Germany and obtained doctor's degree in 1992. He Lived and worked in Germany for 23 years, and returned as a National Distinguished Professor of the "One Thousand Talents Scheme" (University, R&D) launched by Organization Department of the CPC Central Committee from abroad in 2010, Prof. Dai is converted by and of College of Environmental Science and Engineering and Delirector of National Engineering Research Center for Urban Proflution Control of Tongil University.

Prof. Dai is now Deputy director of division of civil environment of S&T Commission of MoE; member of the 7th Discipline Appraisal Group of the State Council; Consultative Committee Member of Engineering and Materials Division of The National Natural Science Foundation of China; Committee Member of Resource and Resourcer's Active Committee of Major Water Project: Expert of Major Water Project: Ticky Water Project: Tick

Five Representative Publications:

- 1) Dai X, Li X, Zhang D*, Chen Y, Dai L. Simultaneous enhancement of methane production and methane content in biogas from waste activated sludge and perennial ryegrass anaerobic co-digestion: The effects of pH and C/N ratio. Bioresource Technology. 2016, 216: 323-330. 2) Dai X, Chen Y, Zhang D*, Yi J. High-solid anaerobic co-digestion of sewage sludge and cattle manure: the effects of volatile solid ratio and pH. Scientific Reports. 2016, 6, 35194.

 3) Dai X, Luo F, Zhang D*, Dai L, Chen Y, Dong B. Waste-activated sludge fermentation for polyacrylamide biodegradation improved by anaerobic hydrolysis and key
- microorganisms involved in biological polyacrylamide removal. Scientific Reports. 2015, 5, 11675.
 4) Dai X, Duan N, Dong B*, Dai L. High-solids anaerobic co-digestion of sewage sludge and food waste in comparison with mono digestions: stability and performance. Waste Management, 2013, 33(2): 308-316.
- 5) Dong B, Liu X, Dai L, Dai X*. Changes of heavy metal speciation during high-solid anaerobic digestion of sewage sludge. Bioresource Technology, 2013, 131(3): 152-158.

FEWSTERN Symposium 2017 Presentation Title and Abstract:

Bioenergy and Resource Recovery From Sewage Sludge

Because of the rapid development of economy and urbanization, a huge number of waste water is treated, and the sludge production increases year by year. Current technical routes of sludge treatment and disposal face challenges. In this presentation key innovative technologies in research and application are introduced. At the end, case study on highly efficient anaerobic digestion is introduced.