



Department: School of Resources and Environmental Engineering

Professional field: Environmental Engineering

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Profile

Education:

2006-2011: Ph. D degree, Environmental Science & Engineering, Tsinghua University

2002-2006: Bachelor degree: Environmental Engineering, Tsinghua University

Professional experiences:

2015-till now: Associate Professor, School of Resources and Environmental Engineering, East China University of Science & Technology

2011-2015: Assistant Professor, School of Resources and Environmental Engineering, East China University of Science & Technology

2008: Visiting Scholar, RWTH-Aachen, Germany

2007: Visiting Scholar, Kyoto University, Japan

Research Field

Source, occurrence and removal of micro-pollutants, such as pharmaceuticals and personal care products, endocrine disrupting chemicals, micro-plastics

Research results and selected published papers

Main Projects:

(1) Major Science and Technology Program for Water Pollution Control and Treatment in China (2017ZX0702006) (Sub-Project), 2017.1-2020.12, in charge

(2) National Natural Science Foundation of China (NSFC): Identification of leading factors influencing the occurrence of pharmaceuticals and personal care products in the landfill leachates and their influence mechanisms, 2018.1-2021.12, in charge

(3) National Natural Science Foundation of China (NSFC): Source apportionment of pharmaceuticals and personal care products in the urban surface water environment using characteristic index for emission sources, 2016.1-2019.12, in charge

(4) National Natural Science Foundation of China (NSFC): Ozonation of pharmaceuticals and personal care products in the secondary effluent: effects of effluent quality and the mechanisms, 2013.1-2015.12, in charge

(5) China Postdoctoral Science Foundation: Adsorption and degradation of typical pharmaceuticals and personal care products by activated sludge, 2013.5-2013.7, in charge

(6) Research Project of Shanghai Environmental Protection Bureau: Environmental and health risk assessment and control of Substance of Very High Concern (SVHCs) in the industrial zones in Shanghai, 2017.5-2018.5, in charge

(7) Research Project of Shanghai Environmental Protection Bureau: Survey and study on management for the enterprises producing and using endocrine disrupting chemicals, 2016.7-2017.7, in charge

(8) Collaborative Project with VEOLIA: Surveys on pharmaceuticals and personal care products in Huangpu River watershed, 2012.3-2013.3, in charge

Representative publications

[1] Qian SUI, Wilhelm GEBHARDT, Horst Friedrich SCHRODER, Wentao ZHAO, Shuguang LU, Gang YU*. Identification of new oxidation products of bezafibrate for better understanding of its toxicity evolution and oxidation mechanisms during ozonation. *Environmental Science and Technology*, 2017, 51: 2262-2270.

[2] Qian SUI, Jun HUANG, Shubo DENG, Weiwei CHEN, Gang YU. Seasonal variation in the occurrence and removal of pharmaceuticals and personal care products in different biological wastewater treatment processes. *Environmental Science and Technology*, 2011, 45(8):3341-3348.

[3] Qian SUI, Jun HUANG, Shubo DENG, Gang YU, Qing FAN. Occurrence and removal of pharmaceuticals, caffeine and DEET in wastewater treatment plants of Beijing, China. *Water Research*, 2010, 44(2): 417-426.

[4] Qian SUI, Wentao ZHAO, Xuqi CAO, Shuguang LU, Zhaofu QIU, Xiaogang GU, Gang YU. Pharmaceuticals and personal care products in the leachates from a typical landfill reservoir of municipal solid waste in Shanghai, China: occurrence and removal by a full-scale membrane bioreactor. *Journal of Hazardous Materials*, 2017, 323: 99-108.

[5] Mengbin GU, Farooq USMAN, Shuguang LU*, Xiang ZHANG, Zhaofu QIU, Qian SUI*. Degradation of trichloroethylene in aqueous solution by rGO supported nZVI catalyst under several oxic environments. *Journal of Hazardous Materials*, 2018, 349: 35-44.

[6] Wenchao JIANG, Ping TANG, Shuguang LU*, Yunfei XUE, Xiang ZHANG, Zhaofu QIU, Qian SUI*. Comparative studies of H₂O₂/Fe(II)/formic acid, sodium percarbonate/Fe(II)/formic acid and calcium peroxide/Fe(II)/formic acid processes for degradation performance of carbon tetrachloride. *Chemical Engineering Journal*, 2018, 344: 53-461.

[7] Qian SUI, Bin WANG, Wentao ZHAO, Jun HUANG, Gang YU, Shubo DENG, Zhaofu QIU, Shuguang LU. Identification of priority pharmaceuticals in the water environment of China. *Chemosphere*, 2012, 89(3): 280-286.

[8] Qian SUI, Dan WANG, Wentao ZHAO, Jun HUANG, Gang YU, Xuqi CAO, Zhaofu QIU, Shuguang LU. Pharmaceuticals and consumer products in four wastewater treatment plants in urban and suburb areas of Shanghai. *Environmental Science and Pollution Research*, 2015, 22(8): 6086-6094.

[9] Dan WANG, Qian SUI*, Shuguang LU, Wentao ZHAO, Zhaofu QIU, Zhouwei MIAO, Gang YU. Occurrence and removal of six pharmaceuticals and personal care products in a wastewater treatment plant employing anaerobic/anoxic/aerobic and UV processes in Shanghai, China. *Environmental Science and Pollution Research*, 2014, 21(6): 4276-4285.

[10] Qian SUI, Jun HUANG, Shuguang LU, Shubo DENG, Bin WANG, Wentao ZHAO, Zhaofu QIU, Gang YU. Removal of pharmaceutical and personal care products by sequential ultraviolet and ozonation process in a full-scale wastewater treatment plant. *Frontiers of Environmental Science and Engineering*, 2014, 8(1): 62-68.