

所属学院 资源与环境工程学院

学科领域 环境科学与工程

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个人简介

2014 - 2017: Université Claude Bernard Lyon 1, IRCELYON, 环境化学专业, 博士

2016 - 2017: Université Clermont Auvergne, ICCF, 环境化学专业

2011 - 2014: 南京大学环境科学专业, 硕士

2007 - 2011: 南京大学环境科学专业, 学士

研究方向

- 1) 水及大气环境光化学
- 2) 基于硫酸根的高级氧化技术

研究成果及主要发表文章

- (1) Xuerui Yang, Xi Ding, Lei Zhou*, Huan-huan Fan, Xingbao Wang, Corinne Ferronato, Jean-marc Chovelon, Guangli Xiu*. New insights into clopyralid degradation by sulfate radical: Pyridine ring cleavage pathways. *Water Research*, 171 (2020), 115378.
- (2) Lei Zhou, Chenzhi Yan, Mohamad Sleiman, Corinne Ferronato, Jean-Marc Chovelon*, Xingbao Wang, Claire Richard*, Sulfate Radical Induced Degradation of β 2-adrenoceptor Agonists Salbutamol and Terbutaline: Implication of Halides, Bicarbonate, and Natural Organic Matter. *Chemical Engineering Journal*, 368 (2019) 252-260.
- (3) Rui Zhang*, Xiaoxiang Wang, Lei Zhou*, Doug Crump. Quantum chemical investigations of the decomposition of the peroxydisulfate ion to sulfate radicals. *Chemical Engineering Journal*, 361 (2019) 960-967.
- (4) Lei Zhou, Claire Richard, Corinne Ferronato, Jean-Marc Chovelon, Mohamad Sleiman*. Investigating the performance of biomass-derived biochars for the removal of gaseous ozone, adsorbed nitrate and aqueous bisphenol A. *Chemical Engineering Journal*, 334 (2018) 2098-2104.
- (5) Lei Zhou, Chenzhi Yan, Mohamad Sleiman, Corinne Ferronato, Jean-Marc Chovelon*, Xingbao Wang, Claire Richard*, Sulfate Radical Induced Degradation of β 2-adrenoceptor Agonists Salbutamol and Terbutaline: Implication of Halides, Bicarbonate, and Natural Organic Matter. *Chemical Engineering Journal*, 368 (2019) 252-260.
- (6) Rui Zhang*, Xiaoxiang Wang, Lei Zhou*, Zhu Liu, Doug Crump. The impact of dissolved oxygen on sulfate radical-induced oxidation of organic micro-pollutants: A theoretical study. *Water Research*, 135 (2018) 144-154.
- (7) Yuefei Ji, Junhe Lu*, Lu Wang, Mengdi Jiang, Yan Yang, Peizeng Yang, Lei Zhou*, Corinne Ferronato, Jean-Marc Chovelon. Non-activated peroxymonosulfate oxidation of sulfonamide antibiotics in water: Kinetics, mechanisms, and implications for water treatment. *Water Research*, 147 (2018) 82-90.
- (8) Lei Zhou, Corinne Ferronato, Jean-Marc Chovelon*, Mohamad Sleiman, Claire Richard*. Investigations of diatrizoate degradation by photo-activated persulfate, *Chemical Engineering Journal*, 2017, 311, 28-36.
- (9) Lei Zhou, Yuefei Ji, Chao Zeng, Ya Zhang, Zunyao Wang, Xi Yang*. Aquatic photodegradation of sunscreen agent p-aminobenzoic acid in the presence of dissolved organic matter, *Water Research*, 2013, 47, 153-162.
- (10) Lei Zhou, Wei Zheng, Yuefei Ji, Jinfeng Zhang, Chao Zeng, Ya Zhang, Qi Wang, Xi Yang*. Ferrous-activated persulfate oxidation of arsenic (III) and diuron in aquatic system, *Journal of Hazardous Materials*, 2013, 263, 422-430.