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学历：博士
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专业：环境科学
研究方向：环境化学
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一、教育经历

2011/10-2014/06 Université Lyon 1 环境化学 理学博士

导师：Jean-Marc Chovelon 教授

2010/09-2014/07 南京大学 环境科学 理学博士

导师：高士祥、杨曦教授

2007/09-2010/07 苏州科技学院 应用化学 工学硕士

导师：魏杰教授

2001/09-2005/07 哈尔滨工程大学 环境工程 工学学士

导师：温青教授

二、主持科研项目

1. 国家自然科学基金青年基金项目(21607077), 硫酸根自由基高级氧化过程中硝基副产物的生成机制, 2017/01-2019/12, 21 万元, 完成, 主持

2. 江苏省自然科学基金青年基金项目(BK20160709), 卤素离子对硫酸根自由基高级氧化高级氧化降解抗生素的影响机制, 2016/07-2019/06, 20 万元, 完成, 主持

3. 中国博士后基金面上项目(2015M570454), 活化过硫酸盐氧化水溶液中的抗生素及其人类代谢产物, 2015/05-2017/04, 8 万元, 完成, 主持

4. 江苏省博士后科研资助项目(1402013A), 活化过硫酸盐降解水溶液中的

典型抗生素，2015/07-2017/06，6 万元，完成，主持

三、研究兴趣和科研学术

➤ 硫酸根自由基高级氧化技术 (SR-AOPs) 对典型抗生素的去除机制

➤ 高级氧化工艺中有毒有害副产物的形成机制及控制措施

➤ 药物及个人护理品 (PPCPs) 的环境光化学 (Environmental photochemistry) 行为

➤ 光催化氧化 (Photocatalytic oxidation) 及电催化氧化技术 (Electrocatalytic oxidation) 去除 PPCPs

➤ 在 *Water Research*、*Applied Catalysis B: Environmental* 等国际权威 SCI 期刊上发表学术论文 60 余篇，被 SCI 引用 1000 余次 (其中 4 篇为 ESI 高被引论文)

➤ 长期担任 *Water Research*、*Chemical Engineering Journal* 等国际期刊审稿人

四、第一作者或通讯作者文章

1. Lei Zhou, Xuerui Yang, **Yuefei Ji***, Jie Wei*. Sulfate radical-based oxidation of the antibiotics sulfamethoxazole, sulfisoxazole, sulfathiazole, and sulfamethizole: The role of five-membered heterocyclic rings. *Science of the Total Environment* 2019, 692: 201-208.

2. **Yuefei Ji***, Yan Yang, Lu Wang, Junhe Lu*, Corrine Ferronato, Jean-Marc Chovelon. Sulfate radical-induced incorporation of NO₂ group into chlorophenols. *Environmental Chemistry Letters* 2019, 17: 1111-1116.

3. **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* 2018, 147: 82-90.

4. **Yuefei Ji***, Yuanyuan Shi, Yan Yang, Peizeng Yang, Lu Wang, Junhe Lu*, Jianhua Li, Lei Zhou, Corinne Ferronato, Jean-Marc Chovelon. Rethinking sulfate radical-based oxidation of nitrophenols: formation of toxic

- polynitrophenols, nitrated biphenyls and diphenyl ethers. *Journal of Hazardous Materials* 2019, 361: 152-161.
5. Yan Yang, **Yuefei Ji***, Peizeng Yang, Lu Wang, Junhe Lu*, Corrine Ferronato, Jean-Marc Chovelon. UV-activated persulfate oxidation of the insensitive munitions compound 2,4-dinitroanisole in water: kinetics, products, and influence of natural photoinducers. *Journal of Photochemistry & Photobiology A: Chemistry* 2018, 360: 188-195.
 6. **Yuefei Ji**, Yan Yang, Lei Zhou, Lu Wang, Junhe Lu*, Corrine Ferronato, Jean-Marc Chovelon. Photodegradation of sulfasalazine and its human metabolites in water by UV and UV/peroxydisulfate processes. *Water Research* 2018, 133: 299-309.
 7. **Yuefei Ji**, Lu Wang, Mengdi Jiang, Junhe Lu*, Corinne Ferronato, Jean-Marc Chovelon. The role of nitrite in sulfate radical-based degradation of phenolic compounds: An unexpected nitration process relevant to groundwater remediation by in-situ chemical oxidation (ISCO). *Water Research* 2017, 123: 249-257.
 8. **Yuefei Ji**, Lu Wang, Mengdi Jiang, Yan Yang, Peizeng Yang, Junhe Lu*, Corinne Ferronato, Jean-Marc Chovelon. Ferrous-activated peroxymonosulfate oxidation of antimicrobial agent sulfaquinoxaline and structurally related compounds in aqueous solution: Kinetics, products and transformation pathways. *Environmental Science Pollution Research* 2017, 24: 19535-19545.
 9. **Yuefei Ji***, Yuanyuan Shi, Lu Wang, Junhe Lu, Corinne Ferronato, Jean-Marc Chovelon. Sulfate radical-based oxidation of antibiotics sulfamethazine, sulfapyridine, sulfadiazine, sulfadimethoxine, and sulfachloropyridazine: formation of SO₂ extrusion products and effects of natural organic matter. *Science of the Total Environment* 2017, 593-594: 704-712.
 10. **Yuefei Ji**, Yuanyuan Shi, Lu Wang, Junhe Lu*. Denitration and renitration processes in sulfate radical-mediated degradation of nitrobenzene. *Chemical Engineer Journal* 2017, 315: 591-597.
 11. **Yuefei Ji**, Yuanyuan Shi, Deyang Kong, Junhe Lu*. Degradation of roxarsone in a sulfate radical mediated oxidation process and formation of polynitrated by-products. *RSC Advances* 2016, 6: 82040-82048.
 12. **Yuefei Ji**, Deyang Kong, Junhe Lu*, Hao Jin, Kang, Fuxing Kang, Xiaoming Yin, Quansuo Zhou. Cobalt catalyzed peroxymonosulfate oxidation of tetrabromobisphenol A: Kinetics, reaction pathways, and formation of brominated by-products. *Journal of Hazardous Materials* 2016, 313: 229-237.
 13. **Yuefei Ji**, Yuanyuan Shi, Wei Dong, Xin Wen, Mengdi Jiang, Junhe Lu*. Thermo-activated persulfate oxidation system for tetracycline antibiotics degradation in aqueous solution. *Chemical Engineer Journal* 2016, 298: 225-233.
 14. **Yuefei Ji**, Weiping Xie, Yan Fan, Yuanyuan Shi, Deyang Kong, Junhe Lu*. Degradation of trimethoprim

by thermo-activated persulfate oxidation: reaction kinetics and transformation mechanisms. *Chemical Engineering Journal* 2016, 286: 16-24.

15. **Yuefei Ji**, Yan Fan, Kuo Liu, Deyang Kong, Junhe Lu*. Thermo activated persulfate oxidation of antibiotic sulfamethoxazole and structurally related compounds. *Water Research* 2015, 87: 1-9.

16. **Yuefei Ji**, Changxun Dong, Deyang Kong, Junhe Lu*. New insights into atrazine degradation by cobalt catalyzed peroxymonosulfate oxidation: Kinetics, reaction products and transformation mechanisms. *Journal of Hazardous Materials* 2015, 285: 491-500.

17. **Yuefei Ji**, Changxun Dong, Deyang Kong, Junhe Lu*, Quansuo Zhou. Heat-activated persulfate oxidation of atrazine: Implication for remediation of groundwater contaminated by herbicides. *Chemical Engineering Journal* 2015, 263: 45-54.

18. Yan Fan, **Yuefei Ji**, Deyang Kong, Junhe Lu*, Quansuo Zhou. Kinetic and mechanistic investigations of the degradation of sulfamethazine in heat-activated persulfate oxidation process. *Journal of Hazardous Materials* 2015, 300: 39-47.(共同一作)

19. **Yuefei Ji**, Corinne Ferronato, Arnaud Salvador, Xi Yang*, Jean-Marc Chovelon**. Degradation of ciprofloxacin and sulfamethoxazole by ferrous-activated persulfate: Implications for remediation of groundwater contaminated by antibiotics. *Science of the Total Environment* 2014, 472, 800-808.

20. **Yuefei Ji**, Lei Zhou, Ya Zhang, Corinne Ferronato, Marcello Brigante, Gilles Mailhot, Xi Yang*, Jean-Marc Chovelon**. Photochemical degradation of sunscreen agent 2-phenylbenzimidazole-5-sulfonic acid in different water matrices. *Water Research* 2013, 47 (15), 5865-5875.

21. **Yuefei Ji**, Lei Zhou, Corinne Ferronato, Arnaud Salvador, Xi Yang, X*, , Jean-Marc Chovelon**. Degradation of sunscreen agent 2-phenylbenzimidazole-5-sulfonic acid by TiO₂ photocatalysis: Kinetics, photoproducts and comparison to structurally related compounds. *Applied Catalysis B: Environmental* 2013, 140-141: 457-467.

22. **Yuefei Ji**, Lei Zhou, Corinne Ferronato, Xi Yang*, Arnaud Salvador, Chao Zeng, Jean-Marc Chovelon**. Photocatalytic degradation of atenolol in aqueous titanium dioxide suspensions: Kinetics, intermediates and degradation pathways. *Journal of Photochemistry and Photobiology A: Chemistry* 2013, 254: 35-44.

23. **Yuefei Ji**, Chao Zeng, Corinne Ferronato, Jean-Marc Chovelon, Xi Yang*. Nitrate-induced photodegradation of atenolol in aqueous solution: Kinetics, toxicity and degradation pathways. *Chemosphere* 2012, 88: 644-649.