Junhe Lu

Professor of environmental engineering science

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Education:

- BA, Nanjing University, Environmental Science, 1998
- MS, Nanjing University, Environmental Science, 2001
- Ph.D, University of Washington, Environmental Engineering, 2007

Research interests and expertise:

- Water quality and water chemistry
- Advanced oxidation processes
- Formation and control of disinfection by-products
- Halogenation in natural and engineering systems

Current projects:

- Transformation of halogen and formation of halogenated byproducts in sulfate radical based oxidation processes. National Natural Science Foundation of China, 2016-2019.
- Photochemistry activity of benzophenone type UV filters and the implications to the fate of organic contaminants in aqueous environment. National Natural Science Foundation of China, 2019-2022.

Current teaching:

- Environmental chemistry

Selected publications:

- Luo, Q.; Yan, X.; Lu, J.; Huang, Q. Perfluorooctanesulfonate Degrades in a Laccase-mediator System. *Environmental Science & Technology*, 52(18), 10617–10626 (2018).
- Jiang, M.; Lu, J.; Ji, Y.; Kong, D. Transformation of acetaminophen in bicarbonate activated persulfate oxidation. *Water Research*, 116, 324-331(2017).
- Lu, J.; Dong, W.; Ji, Y.; Kong, D.; Huang, Q. Natural organic matter exposed to sulfate radicals increases its potential to form halogenated disinfection byproducts. *Environmental Science & Technology*, 50(10), 5060-5067 (2016).
- Lu, J.; Shao, J.; Wang, Z.; Liu, H.; Huang, Q. Formation of halogenated polyaromatic compounds in laccase catalyzed transformation of halophenols. *Environmental Science & Technology*, 49(14), 8850-8857 (2015).
- Lu, J.; Wu. J.; Ji, Y.; Kong, D. Transformation of bromide in thermo activated persulfate oxidation processes. *Water Research*, 78, 1-8 (2015).