

CURRICULUM VITAE

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Academic Background

Education

- Bachelor of Engineering, Environmental Engineering, College of Environment, Hohai University, 2010-2014;
- Doctor of Engineering, Environmental Science and Engineering, College of Environment, Hohai University, 2014-up to now.

Background knowledge

- **Chemistry:** Inorganic, organic, analytical and physical chemistry;
- **Microbiology:** Microbial culture, component analysis;
- **Mathematics:** Statistical analysis, optimization method;
- **Hydraulic:** Environmental hydraulics;
- **Water and wastewater treatment:** Basic knowledge and design of water and wastewater treatment technologies and plants.

Research experience

- *Bacterial and photocatalytic removal of emerging disrupting chemicals (2014-2015)*
 - ✓ Occurrence of endocrine disrupting compounds in aqueous environment and their bacterial degradation
 - ✓ Ag@helical chiral TiO₂ nanofibers for visible light photocatalytic degradation of 17 α -ethinylestradiol
- *Green photocatalysts for microbial inactivation (2016-up to now)*
 - ✓ Visible-light-driven photocatalytic inactivation of MS2 by metal-free g-C₃N₄: Virucidal performance and mechanism
 - ✓ Metal-free virucidal effects induced by g-C₃N₄ under visible light irradiation: Statistical analysis and parameter optimization
 - ✓ Visible-light-driven, water-surface-floating antimicrobials developed from graphitic Carbon nitride and expanded perlite for water disinfection

Journal list

- **Chi Zhang**, Yi Li*, Danmeng Shuai, Yun Shen. Progress and challenges in photocatalytic

disinfection of waterborne viruses: A review to fill current knowledge gaps. *Chemical Engineering Journal*, 2019, 355, 399-415

- **Chi Zhang**, Yi Li*, Danmeng Shuai, Wenlong Zhang, Lihua Niu, Longfei Wang, Huanjun Zhang. Visible-light-driven, water-surface-floating antimicrobials developed from graphitic Carbon nitride and expanded perlite for water disinfection. *Chemosphere*, 2018, 208, 84-92.
- **Chi Zhang**, Yi Li*, Wenlong Zhang, Peifang Wang, Chao Wang. Metal-free virucidal effects induced by g-C₃N₄ under visible light irradiation: Statistical analysis and parameter optimization. *Chemosphere*, 2018, 195, 551-558.
- Yi Li*, **Chi Zhang**, Danmeng Shuai, Saraschandra Naraginti, Dawei Wang, Wenlong Zhang. Visible-light-driven photocatalytic inactivation of MS2 by metal-free g-C₃N₄: Virucidal performance and mechanism. *Water Research*, 2016, 106, 249-258.
- **Chi Zhang**, Yi Li*, Chao Wang, Lihua Niu, Wei Cai. Occurrence of endocrine disrupting compounds in aqueous environment and their bacterial degradation: A review. *Critical Reviews in Environmental Science and Technology*, 2016, 46, 1-59.
- **Chi Zhang**, Yi Li*, Dawei Wang, Wenlong Zhang, Qing Wang, Yuming Wang, Peifang Wang. Ag@helical chiral TiO₂ nanofibers for visible light photocatalytic degradation of 17 α -ethinylestradiol. *Environmental Science and Pollution Research*, 2015 22, 10444-10451.

Research Techniques and Skills

- **Photocatalyst design:**
 - ✓ Fabrication of novel photocatalysts;
 - ✓ Material characterization;
- **Chemical detection:**
 - ✓ Trace contaminant measurement;
 - ✓ Reactive oxygen species quantification;
- **Microbial analysis:**
 - ✓ Microbial culture such as bacteria and viruses;
 - ✓ Component analysis such as proteins and genes;
- **Mathematic analysis:**
 - ✓ Parameter optimization;
 - ✓ Statistical analysis;
 - ✓ Model development and validation.

Awards

- Fundamental Research Funds for the Central Universities (2018B41714).
- Postgraduate Research & Practice Innovation Program of Jiangsu Province (KYZZ16_0291).