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## 师资队伍

## 化工与环境工程学院

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按字母分类

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## 讲客座教授

## 名师介绍

## 博士研究生导师

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## 学历及学术经历：

孙胜鹏博士，2010年毕业于同济大学获环境工程专业博士学位，丹麦技术大学（DTU）联合培养博士。2007年研究生毕业于河南师范大学，环境科学专业。2004年本科毕业于河南理工大学，环境工程专业。2010-2013年于美国康奈尔大学从事博士后研究工作。2014年2月起任苏州大学材化部特聘副教授，硕士生导师。近年来，研究工作主要包括高级氧化技术、土壤和水体中有机污染物的深度处理与控制、污水生物脱氮新技术等。参与了专著书籍Comprehensive Biotechnology-Second Edition (Elsevier B.V., 2011)中关于城市污水生物脱氮章节的撰写。已在环境与化工领域国际著名学术刊物*Environ. Sci. Technol.*, *Environ. Eng. Sci.*, *J. Hazard. Mater.*, *J. Mol. Catal. A: Chem.*, *Ultrason. Sonochem.*, *Chem. Eng. J.*和美国化学学会（ACS）年会等重要国际学术会议上发表论文25篇，其中SCI收录论文18篇，他引700余次。2008年获得第五届上海同济高廷耀环保科技发展基金会“青年博士杰出人才奖学金”。2011-2012年参与康奈尔大学博士后领导力发展项目。2012年获得ACS环境化学专业委员会“ENVR Certificate of Merit Award”。

## 研究领域：

污染土壤与地下水修复  
水污染控制工程  
高级氧化技术  
生物脱氮新技术  
水处理系统建模与控制

## 代表性论文(近五年)：

(一) 期刊论文：

1. **Sheng-Peng Sun**, Xia Zeng, Chun Li, Ann T. Lemley\*. Enhanced heterogeneous and homogeneous Fenton-like degradation of carbamazepine by nano-Fe<sub>3</sub>O<sub>4</sub>/H<sub>2</sub>O<sub>2</sub> with nitrilotriacetic acid. *Chem. Eng. J.*, 2014, 244, 44-49.
2. **Sheng-Peng Sun**, Xia Zeng, Ann T. Lemley\*. Kinetics and mechanism of carbamazepine degradation by a modified Fenton-like reaction with ferric-nitrilotriacetate complexes. *J. Hazard. Mater.*, 2013, 252-253, 155-165.
3. **Sheng-Peng Sun**, Xia Zeng, Ann T. Lemley\*. Nano-magnetite catalyzed heterogeneous Fenton-like degradation of emerging contaminants carbamazepine and ibuprofen in aqueous suspensions and montmorillonite clay slurries at neutral pH. *J. Mol. Catal. A: Chem.*, 2013, 371, 94-103.

4. **Sheng-Peng Sun**, Ann T. Lemley\*. p-Nitrophenol degradation by a heterogeneous Fenton-like reaction on nano-magnetite: Process optimization, kinetics, and degradation pathways. *J. Mol. Catal. A: Chem.*, 2011, 349 (1-2), 71-79.
5. Carles Pellicer-Nàcher, **Shengpeng Sun**, Susanne Lackner, Akihiko Terada, Frank Schreiber, Qi Zhou, Barth F. Smets\*. Sequential aeration of membrane-aerated biofilm reactors for high-rate autotrophic nitrogen removal: Experimental demonstration. *Environ. Sci. Technol.*, 2010, 44 (19), 7628-7634.
6. **Sheng-Peng Sun**\*, Carles Pellicer i Nàcher, Brian Merkey, Qi Zhou, Si-Qing Xia, Dian-Hai Yang, Jian-Hui Sun, Barth F. Smets. Effective biological nitrogen removal treatment processes for low C/N ratios domestic wastewaters treatment: A review. *Environ. Eng. Sci.*, 2010, 27 (2), 111-126.
7. Li-Yun Yang, Shu-Ying Dong, Jian-Hui Sun\*, Jing-Lan Feng, Qiu-Hua Wu, **Sheng-Peng Sun**\*\*.\*. Microwave-assisted preparation, characterization and photocatalytic properties of a dumbbell-shaped ZnO photocatalyst. *J. Hazard. Mater.*, 2010, 179 (1-3), 438-443.
8. **Sheng-Peng Sun**, Cheng-Jie Li, Jian-Hui Sun\*, Shao-Hui Shi, Mao-Hong Fan, Qi Zhou. Decolorization of an azo dye Orange G in aqueous solution by Fenton oxidation process: Effect of system parameters and kinetic study. *J. Hazard. Mater.*, 2009, 161 (2-3), 1052-1057.
9. **Sheng-Peng Sun**\*, Hui-Qin Guo, Qiang Ke, Jian-Hui Sun, Shao-Hui Shi, Min-Li Zhang, Qi Zhou. Degradation of antibiotics ciprofloxacin hydrochloride by photo-Fenton oxidation process. *Environ. Eng. Sci.*, 2009, 26 (4), 753-759.
10. Jian-Hui Sun, Shao-Hui Shi, Yi-Fan Lee, **Sheng-Peng Sun**\*. Fenton oxidative decolorization of the azo dye Direct Blue 15 in aqueous solution. *Chem. Eng. J.*, 2009, 155 (3), 680-683.
11. Jian-Hui Sun, Shu-Ying Dong, Yong-Kui Wang, **Sheng-Peng Sun**\*. Preparation and photocatalytic property of a novel dumbbell-shaped ZnO microcrystal photocatalyst. *J. Hazard. Mater.*, 2009, 172 (2-3), 1520-1526.

#### (二) 国际学术会议

1. Ann T. Lemley\*, **Sheng-Peng Sun**. Investigation of a modified Fenton-like reaction with ferric-nitritotriacetate complexes. The 19th International Conference on Advanced Oxidation Technologies for Treatment of Water, Air and Soil (AOTs-19), San Diego, California, November 17-21, 2013 (Oral presentation).
2. Ann T. Lemley\*, **Sheng-Peng Sun**. Kinetics and mechanism of CBZ degradation at neutral pH by an NTA modified Fenton reaction in solution and by a heterogeneous Fenton reaction with nano-magnetite and NTA. *The 246th ACS National Meeting & Exposition, Division of Environmental Chemistry (ENVR), Indianapolis, Indiana, September 8-12, 2013* (Oral presentation).
3. **Sheng-Peng Sun**\*, Xia Zeng, Ann T. Lemley. Degradation of emerging contaminant carbamazepine in aqueous solution and clay slurries via nano-Fe<sub>3</sub>O<sub>4</sub> heterogeneous Fenton-like reaction at neutral pH. *The 244th ACS National Meeting & Exposition, Division of Environmental Chemistry (ENVR), Philadelphia, Pennsylvania, August 19-23, 2012* (Oral presentation).
4. **Sheng-Peng Sun**\*, Ann T. Lemley. Degradation of p-nitrophenol by heterogeneous Fenton-like reactions on nano-magnetite: Process optimization using response surface methodology. *The 242nd ACS National Meeting & Exposition, Division of Agrochemicals (AGRO), Denver, Colorado, August 28-September 1, 2011* (Oral presentation).
5. **Sheng-Peng Sun**, C. Pellicer-Nàcher, S. Lackner, A. Terada, Qi Zhou, Barth F. Smets\*. Start-up strategies of membrane-aerated biofilm reactor (MABR) for completely autotrophic nitrogen removal. *The IWA-2nd Specialized Conference-Nutrient Management in Wastewater Treatment Processes, Krakow, Poland, September 6-9, 2009* (Oral presentation).

#### (三) 专著书籍章节

1. M. Rusalleda Beylier, M.D. Balaguer, J. Colprim, C. Pellicer-Nàcher, B.-J. Ni, B.F. Smets, **S.-P. Sun**, R.-C. Wang. 6.27-Biological Nitrogen Removal from Domestic Wastewater. part of: *Comprehensive Biotechnology (Second Edition)*, pp: 329-340. Elsevier B.V., 2011.

