

PERSONAL:

Name: **Jing Guo**
Department: Department of Chemistry, College of Sciences
Gender: Female
Degree: Ph.D.
Title: Associate professor
Major: Environmental Pollution Control Engineering
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RESEARCH INTERESTS:

Environmental Pollution Control Chemistry;
Environment Functional Material Synthesis and Application

PROFESSIONAL EXPERIENCE:

2018-now Associate professor, College of Sciences, Nanjing Agricultural University
2013-2017 Lecturer, College of Sciences, Nanjing Agricultural University
2009-2013 Ph.D., College of Resources and Environmental Science, Nanjing Agricultural University
2011-2012 Visiting scholar, Oregon Health & Science University (OR. USA)

TEACHING:

- 《Inorganic and Analytical Chemistry》
- 《Experimental Chemistry I》
- Edited Books: 《General Chemistry》 ; 《Fundamental Chemistry》
- Take responsibility for several SRT projects, have supervised more than 10 undergraduate students to complete their graduation dissertations.

RESEARCH PROJECTS:

- (1) Degradation of organic contaminants in water by nano zero-valent zinc/silica gel (nZVZ/SG), (National Natural Science Foundation, 21407078, 2015.01~2017.12, done);
- (2) Degradation of organic contaminants in water by nano zero-valent zinc/silica gel (nZVZ/SG) (the Fundamental Research Funds for the Central Universities, KJQN201552, 2015.01~2017.12, done)

PUBLICATIONS:

- (1) **Jing Guo**, Le Zhu, Na Sun, YeqingLan* Degradation of nitrobenzene by sodium persulfate activated with zero-valent zinc in the presence of low frequency ultrasound, Journal of the Taiwan Institute of Chemical Engineers, 78 (2017) 137-143
- (2) **Jing Guo**, Jiao Zhang, Cheng Chen, YeqingLan*, Rapid photodegradation of methyl orange by oxalic acid assisted with cathode material of lithium ion batteries LiFePO₄, Journal of the Taiwan Institute of Chemical Engineers, 62 (2016) 187-191.

- (3) **Jing Guo**, Chao Dong, Jing Zhang, Yeqing Lan*, Biogenic synthetic schwertmannite photocatalytic degradation of acid orange 7 (AO7) assisted by citric acid, *Separation and Purification Technology*, 143 (2015) 27-31
- (4) **Jing Guo**, Xue Chen, Ying Shi, Yeqing Lan*, Chao Qin, Rapid photodegradation of methyl orange (MO) assisted with Cu(II) and tartaric acid, *plos one*, 10 (2015) e0134298. DOI:10.1371/journal.pone.0134298
- (5) **Jing Guo**, Ying Li, Runan Dai, Yeqing Lan*, Rapid reduction of Cr(VI) coupling with efficient removal of total chromium in the coexistence of Zn(0) and silica gel, *Journal of Hazardous Materials*, 243 (2012) 265-271.
- (6) **Jing Guo**, Danjun Jiang, Yong Wu, Pei Zhou, Yeqing Lan*, Degradation of methyl orange by Zn(0) assisted with silica gel, *Journal of Hazardous Materials*, 194 (2011) 290-29.
- (7) **Jing Guo**, Yanyan Du, Yeqing Lan*, Jingdong Mao, Photodegradation mechanism and kinetics of methyl orange catalyzed by Fe(III) and citric acid, *Journal of Hazardous Materials*, 186 (2011) 2083-2088.
- (8) Yao Wu, **Jing Guo**, Yijie Han, Junyi Zhu, Lixiang Zhou, Yeqing Lan*, Insights into the mechanism of persulfate activated by rice straw biochar for the degradation of aniline, *Chemosphere*, 200 (2018) 373-379
- (9) Jing Zhang, **Jing Guo**, Yao Wu, Yeqing Lan*, Ying Li*, Efficient activation of ozone by zero-valent copper for the degradation of aniline in aqueous solution, *Journal of the Taiwan Institute of Chemical Engineers*, 81 (2017) 335-342
- (10) Hui Li, **Jing Guo**, Lijiao Yang, Yeqing Lan*, Degradation of methyl orange by sodium persulfate activated with zero-valent zinc, *Separation and Purification Technology*, 132 (2014) 168-173.
- (11) Lujing Cong, **Jing Guo**, Jisong Liu, Haiyan Shi, Minghua Wang*, Rapid degradation of endosulfan by zero-valent zinc in water and soil, *Journal of Environmental Management*, 150 (2015) 451-455.
- (12) Feng Yang, **Jing Guo**, Runan Dai, Yeqing Lan*, Oxidation of Cr(III)-citrate/tartrate complexes by δ -MnO₂: production of Cr(VI) and its impact factors, *Geoderma*, 213 (2014) 10-14.
- (13) Yong Wu, **Jing Guo**, Danjun Jiang, Pei Zhou, Yeqing Lan*, Lixiang Zhou, Heterogeneous photocatalytic degradation of methyl orange in schwertmannite/oxalate suspension under UV irradiation, *Environmental Science & Pollution Research*, 19 (2012) 2313-2320.
- (14) XinHua Cao, **Jing Guo**, Jingdong Mao, Yeqing Lan*, Adsorption and mobility of Cr(III)-organic acid complexes in soils, *Journal of Hazardous Materials*, 192 (2011) 1533-1538.