

PERSONAL:

Name: **Yeqing Lan**
Department: Department of Chemistry, College of Sciences
Gender: Male
Degree: Ph.D.
Title: Professor
Major: Inorganic Chemistry
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RESEARCH INTERESTS:

Environmental Chemistry, Material Chemistry and Soil Chemistry:

- (1) Synthesis of multifunctional materials;
- (2) catalytic and photocatalytic degradation of organic pollutants;
- (3) advanced oxidation techniques;
- (4) removal of heavy metal ions from aqueous solution;
- (5) adsorption and mobilization of heavy metal ions in soil.

PROFESSIONAL EXPERIENCE:

2003-now Full professor, College of Sciences, Nanjing Agricultural University
1996-2002 Associate professor, College of Sciences, Nanjing Agricultural University
1989-1995 Lecturer, College of Sciences, Nanjing Agricultural University
1983-1988 Teaching assistant, College of Sciences, Nanjing Agricultural University
Visiting Scholar:
2010.6-2010.9 Department of Chemistry and Biochemistry, ODU, USA
2009.6-2009.9 Department of Civil and Environmental Engineering, Missouri University, USA
2007.7- 2008.2 Department of Chemistry and Biochemistry, ODU, USA
2000.7- 2001.6 Department of Environmental Engineering, NMT, USA

HONORS AND AWARDS:

2013 Teaching quality mark of Nanjing Agriculture University
2008 Teaching quality mark of Nanjing Agriculture University

TEACHING:

- 《Inorganic Chemistry》
- 《Inorganic and Analytical Chemistry》
- 《Environmental Analytic Chemistry》
- Published Books as Editor in Chief: 《Inorganic Chemistry》 ; 《Inorganic and Analytic Chemistry》

RESEARCH PROJECTS:

- (4) New technology principle of biological mineralization treatment for acid mine wastewater containing heavy metals (National Natural Science Foundation, 21637003, 2017-2021, in process, major partner)
- (3) Oxidation degradation of organic contaminants in water by persulfate activated by zinc and its mechanism (National Natural Science Foundation, 21377056, 2014-2015, completed, project host)
- (2) Mechanism, function and regulation of toxic metal removal in acid mine wastewater by microbiogenic mineral (National Natural Science Foundation, 40930738, 2010-2014, completed, major partner)
- (1) Mechanism of interfacial redox reaction controlling the migration and destination of Cr(VI) in the soil (National Natural Science Foundation, 40671089, 2007-2009, completed, project host)

PUBLICATIONS:

- (33) 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*. 2017, 81: 335–342
- (32) Ying Li, Cheng Chen, Yao Wu, Yijie Han, **Yeqing Lan**. Assessing the Photocatalytic Reduction of Cr(VI) by CuO in Combination with Different Organic Acids. *Water Air Soil Pollution*. 2017,228: 363-371
- (31) Jing Guo, Le Zhu, Na Sun, **Yeqing Lan**. 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*. 2017, 78 : 137–143.
- (30) Cheng Chen, Ying Li, Na Zhao, Lixiang Zhou, **Yeqing Lan**. Mechanism of Arsenate Adsorption by Basic Yttrium Carbonate in a Fixed-Bed Column. *Environmental Engineering Sciences*. 2017,34,785-791.
- (29) Jing Guo, Jiao Zhang, Cheng Chen, **Yeqing Lan**. 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*. 2016, 62, 187–191.
- (28) Chao Qin, Liping Liu, Yijie Han, Cheng Chen, **Yeqing Lan**. Mesoporous Magnetic Ferrum-Yttrium Binary Oxide: a Novel Adsorbent for Efficient Arsenic Removal from Aqueous Solution. *Water Air Soil Pollut*. 2016, 227, 337-343.
- (27) Ying Li, Lijiao Yang, Cheng Chen, **Yeqing Lan**. Zn(0)-Catalyzed Ozonation Degradation of Acid Orange 7(AO7) in Aqueous Solution. *Water Air Soil Pollut*. 2016, 227, 364-370.
- (26) Jing Zhang, Yao Wu, Liping Liu, **Yeqing Lan**. Rapid removal of p-chloronitrobenzene from aqueous solution by a combination of ozone with zero-valent zinc. *Separation and Purification Technology*. 2015, 151, 318–323.
- (25) Jing Zhang, Yao Wu, Chao Qin, Liping Liu, **Yeqing Lan**. Rapid degradation of aniline in aqueous solution by ozone in the presence of zero-valent zinc. *Chemosphere*. 2015, 141, 258–264.
- (24) 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*. 2015, 1-12.
- (23) 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*. 2015, 143: 27–31.
- (22) Ying Li, Cheng Chen, Jing Zhang, **Yeqing Lan**. Catalytic role of Cu(II) in the reduction of Cr(VI) by citric acid under an irradiation of simulated solar light. *Chemosphere*. 2015, 127: 87–92.
 - (21) Ying Li, Hui Li, Ning Zhong, Guixiang Quan, **Yeqing Lan**. Catalytic Roles of Mn(II) and Fe(III) in the Reduction of Cr(VI) by Mandelic Acid under an Irradiation of Simulated Solar Light. *Water Environment Research*. 2015, 87: 50-60.
 - (20) Guixiang Quan, Jing Zhang, Jing Guo, **Yeqing Lan**. Removal of Cr(VI) from aqueous solution by nanoscale zero-valent iron grafted on acid-activated attapulgite. *Water, Air & Soil Pollution*. 2014, 225:1979.
 - (19) Guixiang Quan, Wenji Sun, Jinlong Yan, **Yeqing Lan**. Nanoscale Zero-Valent Iron Supported on Biochar: Characterization and Reactivity for Degradation of Acid Orange 7 from Aqueous Solution. *Water, Air & Soil Pollution*. 2014, 225: 2195.
 - (18) Ying Li, Hui Li, Jing Zhang, Guixiang Quan, **Yeqing Lan**. Efficient Degradation of Congo Red by Sodium Persulfate Activated with Zero-Valent Zinc. *Water Air Soil Pollut*. 2014, 225:2121
 - (17) Ying Li, Chao Qin, Jing Zhang, **Yeqing Lan**, Lixiang Zhou. Cu(II) catalytic reduction of Cr(VI) by tartaric acid under the irradiation of simulated solar light. *Environmental Engineering Science*. 2014, 31 (8).
 - (16) Jing Zhang, Ruimin Wang, Xiaoyan Cao, Ying Li, **Yeqing Lan**. Preparation and characterization of activated carbons from peanut shell and rice bran and a comparative study for Cr(VI) removal from aqueous solution. *Water, Air, Soil & Pollution*. 2014, 225: 2032.
 - (15) Feng Yang, Hui Li, Jing Zhang, **Yeqing Lan**. Photoredox of Cr(III)–Malate Complex and Its Impacting factors. *Water, Air & Soil Pollution*. 2014, 225: 1875.
 - (14) Hui Li, Jing Guo, Lijiao Yang, **Yeqing Lan**. Degradation of methyl orange by sodium persulfate activated with zero-valent zinc. *Separation and purification Technology*. 2014, 132,168–173
 - (13) 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*. 2014, 213, 10–14.
 - (12) Changyuan Yu, Jing Zhang, Xiaolei Wu, **Yeqing Lan**, Lixiang Zhou. Cr(VI) removal by biogenic schwertmannite in continuous flow column. *Geochemical Journal*. 2014, 47, 1–7.
 - (11) Na Chena, **Yeqing Lan**, Bo Wang, Jingdong Mao. Reduction of Cr (VI) by organic acids in the presence of Al (III). *Journal of Hazardous Materials*. 2013, 260, 150– 156.
 - (10) 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*. 2012, 243: 265– 271.
 - (9) Peng Zhou, Ying Li, Yuxiao Shen, **Yeqing Lan**, Lixiang Zhou. Facilitating role of biogenetic schwertmannite in the reduction of Cr(VI) by sulfide and its mechanism. *Journal of Hazardous Materials*. 2012, 237– 238: 194– 198.
 - (8) Danjun Jiang, Ying Li, Yong Wu, Pei Zhou, **Yeqing Lan**, Lixiang Zhou. Photocatalytic reduction of Cr(VI) by small molecular weight organic acids over schwertmannite. *Chemosphere*. 2012, 89: 832–837.
 - (7) 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*. 2012, 19: 2313–2320.
- (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*. 2011, 194: 290–296.
 - (5) XinHua Cao, Jing Guo, Jingdong Mao, **Yeqing Lan**. Adsorption and mobility of Cr(III)–organic acid complexes in soils. *Journal of Hazardous Materials*. 2011, 192: 1533-1538.
 - (4) Runan Dai, Changyuan Yu, Jing Gou, **Yeqing Lan**, Jingdong Mao. Photoredox pathways of Cr(III)-tartrate complexes and their impacting factors. *Journal of Hazardous Materials*. 2011, 186: 2111-2116.
 - (3) Xianlan Zhang, Baolin Deng, Jing Guo, Yang Wang, **Yeqing Lan**. Ligand-assisted degradation of carbon tetrachloride by microscale zero-valent iron. *Journal of Environmental Management*. 2011, 92: 1328-1333.
 - (2) 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*. 2011, 186: 2083-2088.
 - (1) Xianchao Gao, Feng Yang, **Yeqing Lan**, J.-D. Mao, Xinyan Duan. Rapid degradation of carbon tetrachloride by commercial micro-scale zinc powder assisted by citric acid. *Environmental Chemistry Letters*. 2011, 9: 431-438.