

## 祝凌燕



**祝凌燕:** 女, 湖北省红安

**Email:** zhuly@nankai.edu.cn

**职称:** 南开大学特聘教授, 博士生导师

**职务:** 院长助理, 天津市城市生态环境修复与污染防治重点实验室副主任

**荣誉与奖励:** 教育部“新世纪优秀人才”; “第12届中国青年科技奖”; “第五届中国青年女科学家奖”提名奖; 2010年上海世博“城市之星”

**最高学历:** 博士(后)

**研究领域:** 污染生态化学; 环境分析与监测; 污染控制与生态修复

### 主要学术经历

- 1987.09-1991.07 南开大学环境科学系环境化学专业, 获理学学士学位
- 1991.07-1998.12 南开大学元素有机化学研究所工作 讲师
- 1995.09-1998.06 南开大学元素有机化学研究所工作, 获硕士学位
- 1999.01-2002.12 新加坡国立大学化学系, 获博士学位
- 2001.10-2002.12 新加坡国立大学医学院社区、职业、家庭与医药系 研究员
- 2003.01-2005.09 美国印第安那大学公共环境与事物学院博士后
- 2005.10- 至今 引进人才, 南开大学特聘教授, 南开大学环境科学与工程学院

### 主要社会兼职

- 中国自然资源学会理事, 资源循环利用专业委员会副主任兼秘书长
- 中国生态学会污染生态学专业委员会委员
- 中国毒理学会环境与生态毒理学专业委员会委员
- Environmental Toxicity and Chemistry 编委
- Society of Environmental Toxicology and Chemistry, (环境毒理与化学学会资深会员认证)
- American Chemical Society Member Recognition, (美国化学协会资深会员认证)

### 已完成科研项目

- The Integrated Atmospheric Deposition Network (IADN), USEPA, 主要参与者, 结题
- Polybrominated diphenyl ethers (flame retardants) in babies, sediment cores and fishes in Great Lakes are a, USEP, 执行人, 结题

- Carcinogenic heterocyclic amines (HAA) in the Chinese diet: Development of exposure assessment in population-based studies, Singapore National Medical Research Council, 主要参与者, 结题
- Development of on-line enrichment technique for capillary electrophoresis and its application in environmental analysis, Singapore National Research Council, 执行人
- 国家自然科学基金委主任基金, 《溴代阻燃剂在人体中的水平和分布研究》, 负责人, 结题
- 天津市自然科学基金, 《多溴联苯醚在陆生生态系统的迁移转化及生物有效性调控》, 负责人, 结题
- 天津市科技创新能力与环境建设平台重点项目, 《天津地区土壤中典型有机污染物环境标准与污染控制技术研究》, 副组长, 结题
- 国家自然科学基金, 《溴代阻燃剂在大气-土壤-生物的迁移转化机制》, 负责人, 结题
- 天津市应用基础计划重点项目, 《污染沉积物的活性反应格栅原位修复技术与机理的研究》, 负责人, 结题
- 天津中新生态城环保公司, 《中新天津生态城污水库底泥处置风险评估》, 负责人, 结题
- 国家自然科学基金, 《沉积物中多溴联苯醚 (PBDEs) 的解吸机制及生物可利用性》, 负责人, 结题
- 国家自然科学基金重点项目, 《土壤中持久性有机有毒污染物的迁移转化规律及对地下水的影响》, 主要参与人, 结题
- 教育部博士点基金, 《多溴联苯醚与重金属的联合毒性效应与机制》, 负责人, 结题

## 在研项目

- 国家自然科学基金, 《沉积物中多溴联苯醚 (PBDEs) 的解吸机制及生物可利用性》, 负责人
- 国家自然科学基金, 《典型全氟化合物在沉积物中的分配行为与微观机制》, 负责人
- 天津市科技支撑计划国际科技合作项目, 《中新生态城水污染整治关键技术研究-受污染沉积物的原位修复技术研究》, 负责人
- 国家水体污染控制与治理科技重大专项子课题, 《流域水环境沉积物基准方法研究》, 负责人
- 教育部重大培育项目, 《利用新型纳米技术去除饮用水中藻毒素和内分泌干扰物的研究》, 副主持
- 科技部国际合作项目, 《水体沉积物环境质量基准及原位修复关键技术研究》, 副主持
- 天津市科技创新专项资金项目, 《大沽排污河底泥安全处置与河道生态修复技术集成及应用》, 子课题第二负责人

10. 国家自然科学基金委外国青年基金, 《Study of the discipline and mechanism of accumulation and elimination of perfluorinated compounds (PFCs) in human body》, 中方负责人

11. 环保部公益项目, 新增POPs环境管理决策支撑关键技术研究, 自课题负责人

## 代表性学术论文 (2005-2011) \*表示通讯作者

- Chunying Wang, **Lingyan Zhu\***, Mingcui Wei, Peng Chen, Guoqiang Shan, Photolytic reaction mechanism and impacts of coexisting substances on photodegradation of bisphenol A by Bi<sub>2</sub>WO<sub>6</sub> in water, *Water Research*, 2011, In press
- Chao Song, Peng Chen, Chunying Wang, **Lingyan Zhu\***, Photodegradation of perfluorooctanoic acid by synthesized TiO<sub>2</sub>-MWCNT composites under 365 nm UV irradiation, *Chemosphere*, 2011, In press
- Yang Du, **Lingyan Zhu\***, Guoqiang Shan, Removal of Cd<sup>2+</sup> from contaminated water by nano-sized aragonite mollusk shell and the competition of co-existing metal ions, *Journal of Colloid and Interface Science* 2011, 159:1763-1768
- Man Liu, Shengyan Tian, Peng Chen, **Lingyan Zhu\***, Predicting the Bioavailability of Sediment-associated Polybrominated Diphenyl Ethers using a 45-d Sequential Tenax Extraction, *Chemosphere*, 2011, 85: 424-431
- Chun Chang, Fei Lian, **Lingyan Zhu\***, Simultaneous adsorption and degradation of g-HCH by nZVI/Cu bimetallic nanoparticles with activated carbon support, *Environmental Pollution*, 2011, 159: 2507-2514
- Chunying Wang, **Lingyan Zhu\***, Guoqiang Shan, Chao Song, Peng Chen. Characterization of Photocatalyst Bi<sub>3.84</sub>WO<sub>6.24</sub> and its photocatalytic degradation to bisphenol A under simulated solar light irradiation. *Applied Catalysis B: Environmental*. 2011, 105: 229-236
- Fei Lian, Baoshan Xing, **Lingyan Zhu\***, Comparative study on composition, structure, and adsorption

- n behavior of activated carbons derived from different synthetic waste polymers, *Journal of Colloid and Interface Science* 2011, 360: 725–730
- Yang Du, Fei Lian, **Lingyan Zhu\***, Biosorption of divalent Pb, Cd and Zn on aragonite and calcite mollusk shells, *Environmental Pollution* 2011, 159: 1763–1768
  - Liping Yang, **Lingyan Zhu\***, Zhengtao Liu, Occurrence and partition of perfluorinated compounds in water and sediment from Liao River and Taihu Lake, China, *Chemosphere* 2011, 83: 806–814
  - Shengyan Tian, **Lingyan Zhu\***, Bioaccumulation kinetics of sediment-associated DE-83 in benthic invertebrates (*Nereis succinea*, polychaete), *Chemosphere*, 2011, 84: 160–165
  - Tang Baohua, **Zhu Lingyan**, Zhou Qixing, Joint effects of Penta-BDE and heavy metals on *Daphnia magna* survival, its antioxidant enzyme activities and lipid peroxidation, *Frontiers of Environmental Science & Engineering in China*, 2011. 5(1): 99–110.
  - Fei Lian, Fang Huang, Wei Chen, Baoshan Xing, **Lingyan Zhu\***. Sorption of apolar and polar organic contaminants by waste tire rubber and its chars in single- and bi-solute systems. *Environmental Pollution*, 2011, 159: 850–857.
  - Chunying Wang, Hao Zhang, Fang Li, **Lingyan Zhu\***. Degradation and Mineralization of Bisphenol A by Mesoporous Bi<sub>2</sub>WO<sub>6</sub> under Simulated Solar Light Irradiation. *Environ. Sci. & Technol*, 2010, 44, 6843–6848
  - Xianwei Liang, Shuzhen Zhu, Peng Chen, **Lingyan Zhu\***, Bioaccumulation and Bioavailability of Polybrominated Diphenyl Ethers (PBDEs) in Soil, *Environmental Pollution*, 158, 2010, 2387–2392
  - Shuzhen Zhu, Shengyan Tian, **Lingyan Zhu\***, Bioaccumulation and Single and Joint Toxicities of Penta-BDE and Cadmium to Earthworms (*Eisenia fetida*) Exposed to Spiked Soils, *Science China Chemistry*, 53, 2010, 1025–1032
  - Zizhong Zhang, Mengyan Li, Wei Chen, Shuzhen Zhu, Nannan Liu and **Lingyan Zhu\***, Immobilization of lead and cadmium from aqueous solution, *Environmental Pollution*, 158, 2010, 514–519
  - Yinping Liu, Peng Dai, Jinguang Li, Lei Zhang, Yunfeng Zhao, Yongning Wu, **Lingyan Zhu**, Fast determination of polybrominated diphenyl ethers in human milk using gas chromatography-negative chemical ionization/mass spectrometry, *Chinese Journal of Chromatography*, 2008, 26(6): 687–691
  - **Lingyan Zhu\***, Baoling Ma, Ronald A. Hites, Brominated Flame Retardants in Serum from the General Population in Northern China, *Environ. Sci. & Technol*, 43, 2009, 6963–6968
  - **Lingyan Zhu\***, Baoling Ma, et al, Distribution of polybrominated diphenyl ethers in breast milk from North China: Implication of exposure pathways, *Chemosphere*, 74, 2009, 1429–1434
  - **Lingyan Zhu\***, Baoling Ma, Xianwei Liang, Quantitative analysis of polybrominated diphenyl ethers in earthworms and soil by gas chromatography coupled to ion-trap tandem mass spectrometry, *Rapid Commun. Mass Spectrom.*, 22, 2008, 394–400
  - **Lingyan Zhu\***, Baoling Ma, Lei Zhang, Li Zhang, The study of distribution and fate of nitrobenzene in water/sediment microcosm, *Chemosphere*, 69, 2007, 1579–1585
  - Janice A. Dye, Marta Venier, **Lingyan Zhu**, Cynthia R. Ward, Ronald A. Hites, Linda S. Birnbaum, Elevated PBDEs level in pet cats: Sentinels for humans? *Environ. Sci. & Technol.* 41, 2007, 6350–6356
  - Lingyan Zhu, Ronald A. Hites, Brominated Flame Retardants in Tree Bark from North America, *Environ. Sci. & Technol.* 40, 2006, 3711–3716
  - Eunha Hoh, **Lingyan Zhu**; Ronald A. Hites, Dechlorane Plus, a Chlorinated Flame Retardant, in the Great Lakes, *Environ. Sci. & Technol.* 40, 2006, 1184–1189
  - **Lingyan Zhu**, Ronald A. Hites, Identification of Brominated Carbazoles in the Sediment Cores from Lake Michigan, *Environ. Sci. & Technol.* 39, 2005, 9456–9451
  - **Lingyan Zhu**, Ronald A. Hites, Brominated Flame Retardants in Sediment Cores from Lakes Michigan and Erie, *Environ. Sci. & Technol.* 39, 2005, 3488–3494
  - Eunha Hoh; **Lingyan Zhu**; Ronald A. Hites, Novel Flame Retardants, 1,2-Bis(2,4,6-tribromophenoxy)ethane and 2,3,4,5,6-Pentabromoethylbenzene, in Environmental Samples, *Environ. Sci. & Technol.* 39, 2

201201更新

<http://env.nankai.edu.cn/>

The College of Environmental Science and Engineering of Nankai University



南开大学环境科学与工程学院  
地址：天津市卫津路94号(300071)  
电话：022-23508807 022-23501117 传真：022-23501117  
电邮：hjxy@nankai.edu.cn