



## 研究队伍

您现在的位置: 首页 > 研究队伍

- 院士专家
- 百人计划
- 杰出青年
- 科研骨干
- 研究员
- 副研究员

### 专家人才库

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#### 简历:

魏东斌, 男, 博士, 副研究员。2001年毕业于南京大学环境学院, 2001至2006年, 分别在清华大学环境系、日本横滨国立大学环境情报研究院开展博士后研究, 现在中国科学院生态环境研究中心工作, 从事新型有机污染物的环境过程机制及毒理效应评价的研究。主要的研究兴趣包括: (1) 新型有机污染物的生成、生态环境行为及过程机制研究。(2) 新型有机污染物的毒性、毒理效应研究。(3) 有机污染物定量构效关系、生态风险评价研究。目前承担国家自然科学基金面上、重点课题, 国家863计划课题, 国家973计划课题, 国家科技支撑课题, 国家重大科技专项课题, 留学回国基金课题, 国际合作课题等十多项科研任务, 已在国内外学术期刊上发表论文50多篇, 其中SCI收录20余篇。

#### 研究方向:

新型有机污染物的环境过程机制及毒理效应评价

#### 专家类别:

副高级

#### 职务:

#### 社会任职:

#### 承担科研项目情况:

- 1) 国家自然科学基金重点课题: 基于聚合物吸附剂吸附的饮用水优质高效净化原理与技术
- 2) 国家自然科学基金课题: 典型紫外防晒剂在氯化消毒处理中的转化机制及风险评价
- 3) 973计划课题: 蓝藻水华衍生污染物的毒理效应与健康风险
- 4) 十一五重大科技支撑课题: 奥运景观水系水质保障综合技术与示范的子课题: 再生水源景观水系生态健康调控技术
- 5) 863计划目标导向课题: 基于水质安全的组合式强化再生水井灌集成技术
- 6) 863计划重点课题: 再生水回用的风险控制技术研究
- 7) 863计划重大课题: 重大环境污染事件特征污染物实验室检测技术系统
- 8) 国家重大科技专项: 水体污染控制与治理科技重大专项: 东江优控污染物动态控制管理技术体系研究与应用示范
- 9) 科技部中澳国家合作项目: 再生水风险评价与控制研究
- 10) 教育部留学回国人员科研启动基金课题: 基于生物毒性测试集的环境水质生态安全诊断体系的研究

#### 获奖及荣誉:

#### 代表论著:

- 1) Wei Dongbin, Lin Zhifen, Kameya Takashi, Urano Kohei Du Yuguo. Application of biological safety index in two Japanese watersheds using a bioassay battery. Chemosphere. 2008, 72(9):1303-1308.
- 2) Wei Dongbin, Kameya Takashi, Urano Kohei. Environmental management of pesticidal POPs in China: Past, present and future. Environment International. 2007, 33:894-902.
- 3) Wei Dongbin, Kisuno Akira, Kameya Takashi, Urano Kohei, A new method for evaluating biological safety of environmental water with algae, daphnia and fish toxicity ranks, Science of the Total Environment, 2006 (in press)
- 4) Wei Dongbin, Wang Lisha, Wei Jie, Hu Hongying, Toxicity screening and evaluating in chlorination disinfection of wastewater reclamation processes, Water Science and Technology, 2006, 53(9):239-246
- 5) Wei Dongbin, Wang Lisha, Wei Jie, Hu Hongying, "Effects of Chlorine Disinfection on Toxicity Formation in Reclaimed Water", Bulletin of Environmental Contamination and Toxicology, 2006, 76(2):226-232

- 6) Wang Lisha, Wei Dongbin, Wei Jie, Hu Hongying, Screening and Estimating of Toxicity Formation with Photobacterium Bioassay During Chlorine Disinfection of Wastewater, Journal of Hazardous Materials, 2007, 141:289-294
- 7) Wei Dongbin, Zhai Lihua, Dong Chunhong, Hu Hongying, QSARS-based toxicity classification and prediction for single and mixed aromatic compounds, SAR and QSAR in Environmental Research, 2004, 15(3): 207-216
- 8) Lin Zhifen, Wei Dongbin, Wang Xiaodong, Yin Kedong, Zhao Di, Chemical-chemical interaction between cyanogenic toxicants and aldehydes: a mechanism-based QSAR approach to assess the toxicological joint effects, SAR and QSAR in Environmental Research. 2004, 15(2):127-138
- 9) Wei Dongbin, Wang Liansheng, Lin Zhifen, Hu Hongying, . QSPR Prediction of Three Partition Properties for Phenylacrylates, Journal of Liquid Chromatography & Related Technologies, 2003, 26(13):2065-2082
- 10) Wei Dongbin, Wu Chunde, Wang Liansheng, Hu Hongying, QSPR-based prediction of adsorption of halogenated aromatics on yellow-brown soil, SAR and QSAR in Environmental Research, 2003, 14(3): 191 - 198
- 11) Wei Dongbin, Hu Hong-Ying, Hiramoto Kosei, Fujie Koichi, Novel Prediction Methods for Electrochemical Reduction Characteristics of Chlorinated Aromatics Based on Their Molecular Structures, Chemistry Letter, 2002, (4):456-457
- 12) Wei Dongbin, Tan Yongrui, Liu Xinhui, Wang Liansheng, Hu Hong-Ying, Partition properties of 18 polychlorinated organic compounds (pcocs): correlation with molecular structural descriptors, Journal of Liquid Chromatographic & Related Techniques, 2002, 25(4):627-637
- 13) Wei Dongbin, Zhang Aiqian, Wei Zhongbo, Han Shuokui, Wang Liansheng, .A case study of logistic QSAR modeling methods and robustness tests, Ecotoxicological Environmental Safe 2002, 52 (2):143-149
- 14) Wei Dongbin, Zhang Aiqian, Han Shuokui, Wang Liansheng, Joint QSAR analysis using the Free-Wilson approach and quantum chemical parameters, SAR and QSAR in Environmental Research, 2001, 12 (5): 471-479
- 15) Wei Dongbin, Zhang Aiqian, Wu Chunde, Han Shuokui, Wang Liansheng. "Progressive Study and Robustness Test of QSAR Model Based on Quantum Chemical Parameters for Predicting BCF of Selected Polychlorinated Organic Compounds (PCOCs)", Chemosphere, 2001, 44(6):1421-1428
- 16) Wu Chunde, Wei Dongbin, Liu Xinhui, Wang Liansheng, Estimation of the sorption of substituted aromatic compounds on the sediment of the Yangtse River, Bulletin of Environmental Contamination Toxicology, 2001, 66 (6): 777-783