

## 目 次

### 综述

- 1 紫外吸收剂在湖泊中的分布及其对底栖动物的毒性效应  
全天衡,杨慧婷,陈辉辉,梁雪芳,谷孝鸿
- 18 基于模式生物秀丽隐杆线虫的环境污染物生殖毒性研究进展  
杨振,王晶晶,聂亚光,代慧,王牧笛,程雷,许安
- 30 全氟化合物污染现状及风险评估的研究进展  
张美,楼巧婷,邵倩文,毛硕乾,李璠,林忠洲
- 54 雌激素受体作为壬基酚的主要作用靶点导致机体免疫毒性  
傅相均,许洁,蒋智钢,俞捷
- 60 太湖重污染湖区和水源地水质概况及藻毒素污染环境风险  
姜锦林,周军英,刘仁彬,单正军,王晓蓉
- 72 酚酸类自毒物质微生物降解转化研究进展  
李敏,张丽叶,张艳江,朱娟娟,马海军

### 专论

- 79 基于代谢组学技术分析磷酸三苯酯诱导斑马鱼胚胎发育毒性的分子机制  
张杏丽,邹威,周启星
- 90 外源化合物在鱼体内生物半减期的 QSAR 模型  
张文灏,陈景文,徐童,王雅
- 99 亚硝酸盐和氨对日本沼虾肝胰腺代谢的影响  
余苗苗,江敏,吴昊,吴丹,金若晨,孙世玉,姚丹,王旭娜
- 112 六溴环十二烷(HBCD)对 H4 细胞和 SK-N-AS 细胞脱碘酶 2 和 3 表达的影响  
郝小吉,尚小娜,于海华,么建萍,韩璐,刘晓晖,李亚晨,邵静
- 121 PCB118 对 GT1-7 细胞 GnRH 分泌及 Kisspeptin/GPR54 信号通路蛋白表达的影响  
黄苑,苏晓鸥,张维,齐香荣,林刚
- 130 机舱空气环境耐药基因及耐药细菌的污染特征研究  
李鹏,谭璐,李林云,薛银钢,毛大庆
- 139 全氟辛烷磺酸对哮喘小鼠炎症反应的影响  
曹文锐,任静,贺妮楠,陈静,秦小迪,董光辉,曾晓雯
- 146 拓展等效线图法评估离子液体与杀菌剂多果定之间的拮抗作用  
张瑾,姜慧,董欣琦,卞志强
- 155 壬基酚聚氧乙烯醚对斑马鱼精巢组织的影响  
刘仁彬,姜锦林,张宇峰,梁霞,单正军
- 163 不同藻密度下诺氟沙星对萼花臂尾轮虫生命表统计学参数的影响  
朱韩,席贻龙,徐秋磊,黄克强,李加男,江珊
- 174 苦马豆素致糖基转移酶活性改变对小鼠生殖激素分泌的影响  
王毅,彭铭,高欣,赵宝玉,吴晨晨

- 186 三(1,3-二氯-2-丙基)磷酸酯对大鼠的神经毒性效应  
王思敏,李学彦,周启星,胡献刚,邵晓东,张永国
- 196 有机氯类农药在残留剂量下联合诱导乳腺癌 MCF-7 细胞增殖的机制研究  
郎朗,董晓琪,狄静波
- 203 乙虫腈悬浮剂对新出房意大利蜜蜂的毒性研究  
牛新月,齐素贞,吴黎明,张中印,石明旺
- 214 Copeland 法与证据权重法在污染物危害性排序上的对比研究  
朱晓晶,于洋,竹涛,郑玉婷,任幸,林军
- 226 四溴联苯醚对小鼠的神经毒性  
庄娟,李梦秋,洪法水,胡卫成,张萌萌,周颖君,罗艳,张建梅,郑元林
- 233 京津潮白河多环芳烃及其衍生物分布  
付璐婧,乔梦,赵旭,李一兵,李卓蓉,刘冬晴
- 240 基于高通量分析方法的长江干流重庆段抗生素种类特征及来源初探  
石运刚,卓丽,陈静华,蒋小萍,蔡凤珊,严骁,郑晶,钟昌琴,刘嘉烈
- 249 咪鲜胺和多菌灵对斑马鱼联合毒性效应  
李健,吴声敢,赵慧宇,杨桂玲
- 258 北京市典型有机设施蔬菜基地重金属污染特征及风险评估  
蔚青,李巧玲,李冰茹,陆安祥,殷敬伟,徐笠
- 272 GO 通过氧化损伤激活秀丽线虫未折叠蛋白反应  
赵云利,洪运,李佳钰,李仁杰,吴华彰
- 279 3 种抗生素对黑麦草种子萌发的生态毒性效应  
邓世杰,马辰宇,严岩,叶晓枫,王国祥
- 286 水合欢对重金属 Cd、Pb 的耐受性及吸收富集特性  
黑泽文,向慧敏,章家恩,梁开明,郅帅杰,赵敏
- 297 土壤重金属镉、铅及其复合污染对羊蹄(*Rumex japonicus* Houtt)生长及其抗性生理指标的影响  
史雅甜,简敏菲,苗艳娇,贾蕊霞
- 307 番茄对污染土壤中邻苯二甲酸酯的吸收累积特征  
王爱丽,商书波,孙梦瑶,王芳

## CONTENTS

- 1 Distribution of UV Absorbers in Lake Environment and Their Toxicological Effects on Benthic Animals  
Tong Tianheng, Yang Huiting, Chen Huihui, Liang Xuefang, Gu Xiaohong
- 18 Progress on Reproductive Toxicity of Environmental Pollutants Based on Model Organism *Caenorhabditis elegans*  
Yang Zhen, Wang Jingjing, Nie Yaguang, Dai Hui, Wang Mudi, Cheng Lei, Xu An
- 30 Research Progress of Perfluorinated Compounds Pollution Status and Risk Assessment  
Zhang Mei, Lou Qiaoting, Shao Qianwen, Mao Shuoqian, Li Fan, Lin Zhongzhou
- 54 The Role of Estrogen Receptor as Main Target in the Immunotoxicity Induced by Nonylphenol  
Fu Xiangjun, Xu Jie, Jiang Zhigang, Yu Jie
- 60 General Situation of Water Quality and Environmental Risks of Algal Toxins Pollution in Major Polluted Area and Water Sources of Lake Taihu  
Jiang Jinlin, Zhou Junying, Liu Renbin, Shan Zhengjun, Wang Xiaorong
- 72 Review on the Microbial Biodegradation and Metabolism of Autotoxic Phenolic Acids  
Li Min, Zhang Liye, Zhang Yanjiang, Zhu Juanjuan, Ma Haijun
- 79 Molecular Mechanisms of Developmental Toxicity of Triphenyl Phosphate on Zebrafish Embryo Revealed by Metabonomics  
Zhang Xingli, Zou Wei, Zhou Qixing
- 90 QSAR Models for Predicting Biological Half-life of Xenobiotics in Fish  
Zhang Wenhao, Chen Jingwen, Xu Tong, Wang Ya
- 99 Effects of Nitrite and Ammonia on the Hepatopancreas Metabolism of *Macrobrachium nipponensis*  
Yu Miaomiao, Jiang Min, Wu Hao, Wu Dan, Jin Ruochen, Sun Shiyu, Yao Dan, Wang Xuna
- 112 Effect of Hexabromocyclododecane (HBCD) on the Expressions of Deiodinases 2 and 3 in the Human Neuroglioma H4 Cells and Neuroblastoma SK-N-AS Cells  
Hao Xiaoji, Shang Xiaona, Yu Haihua, Yao Jianping, Han Lu, Liu Xiaohui, Li Yachen, Shao Jing
- 121 Effects of PCB118 on GnRH Secretion and Proteins Expression of Kisspeptin/GPR54 Signaling Pathway in GT1-7 Cells  
Huang Yuan, Su Xiao-Ou, Zhang Wei, Qi Xiangrong, Lin Gang
- 130 Characteristics of Antibiotic Resistant Genes and Resistant Bacteria in the Air Environment of Cabin  
Li Peng, Tan Lu, Li Linyun, Xue Yinggang, Mao Daqing
- 139 Effects of Perfluooctane Sulfonate on Inflammatory Responses in Asthmatic Mice  
Cao Wenrui, Ren Jing, He Ninan, Chen Jing, Qin Xiaodi, Dong Guanghui, Zeng Xiaowen
- 146 Extended Isobologram for Predicting Antagonism between Pyridinium-based Ionic Liquids and Dodine  
Zhang Jin, Jiang Hui, Dong Xinqi, Bian Zhiqiang
- 155 Alterations in Testicular Histology in the Zebrafish (*Danio rerio*) Exposed to Nonylphenol Ethoxylates  
Liu Renbin, Jiang Jinlin, Zhang Yufeng, Liang Xia, Shan Zhengjun
- 163 Effects of Norfloxacin on Life-Table Demography of *Brachionus calyciflorus* under Different *Scenedesmus obliquus* Densities  
Zhu Han, Xi Yilong, Xu Qulei, Huang Keqiang, Li Jianan, Jiang Shan
- 174 Swainsonine Poisoning-induced Changes of Glycosyltransferase Activity Affected Secretion of Reproductive Hormone in Mice  
Wang Yi, Peng Ming, Gao Xin, Zhao Baoyu, Wu Chenchen

- 186 Tris(1,3-dichloro-2-propyl) Phosphate (TDCPP) Induced Neurotoxic Effects in Rats  
Wang Simin, Li Xueyan, Zhou Qixing, Hu Xiangang, Shao Xiaodong, Zhang Yongguo
- 196 Organochlorine Pesticides Combined to Induce Proliferation of Breast Cancer MCF-7 Cells at the Residual Dose: A Mechanism Study  
Lang Lang, Dong Xiaoqi, Di Jingbo
- 203 Toxicity Studies of Ethiprole Suspension Concentrate to Newly Emerged Honey Bees (*Apis mellifera* L.)  
Niu Xinyue, Qi Suzhen, Wu Liming, Zhang Zhongyin, Shi Mingwang
- 214 A Comparative Study of Copeland Method and Weight-of-Evidence Method Application on Hazard Ranking of Pollutants  
Zhu Xiaojing, Yu Yang, Zhu Tao, Zheng Yuting, Ren Xing, Lin Jun
- 226 2,2',4,4' -Tetrabromodiphenyl Ether-induced Neurotoxicity in Mice  
Zhuang Juan, Li Mengqiu, Hong Fashui, Hu Weicheng, Zhang Mengmeng, Zhou Yingjun, Luo Yan, Zhang Jianmei, Zheng Yuanlin
- 233 Distribution of Polycyclic Aromatic Hydrocarbons and Their Derivatives in Chaobai River of Beijing-Tianjin Area  
Fu Lujing, Qiao Meng, Zhao Xu, Li Yibing, Li Zhuorong, Liu Dongqing
- 240 High Throughput Screening Approach for Studing the Occurrence and Potential Sources of Antibiotics in the Chongqing Section of the Yangtze River  
Shi Yungang, Zhuo Li, Chen Jinghua, Jiang Xiaoping, Cai Fengshan, Yan Xiao, Zheng Jing, Zhong Changqin, Liu Jialie
- 249 The Combined Effects of Prochloraz and Carbendazim on the Toxicity and Endocrine Disturbance in Zebrafish  
Li Jian, Wu Shenggan, Zhao Huiyu, Yang Guiling
- 258 Heavy Metal Pollution Characteristics and Risk Assessment of Typical Organic Facility Vegetable Bases in Beijing  
Yu Qing, Li Qiaoling, Li Bingru, Lu Anxiang, Yin Jingwei, Xu Li
- 272 GO Induced Unfolded Protein Response in *C. elegans* through Oxidative Stress  
Zhao Yunli, Hong Yun, Li Jiayu, Li Renjie, Wu Huazhang
- 279 Ecotoxicological Effects of Three Antibiotics on Seed Germination of *Lolium perenne*  
Deng Shijie, Ma Chenyu, Yan Yan, Ye Xiaofeng, Wang Guoxiang
- 286 Tolerance and Accumulation Ability of *Neptunia oleracea* to Cd and Pb Stress in Soil  
Hei Zewen, Xiang Huimin, Zhang Jiaen, Liang Kaiming, Zhi Shuaijie, Zhao Min
- 297 Effects of Cadmium and Lead Pollution in Soils on the Growth and Resistance Physiological Indexes of *Rumex japonicus* Houtt  
Shi Yatian, Jian Minfei, Miao Yanjiao, Jia Ruixia
- 307 Characterization of Uptake and Accumulation of Phthalic Acid Esters by Tomato in the Polluted Soil  
Wang Aili, Shang Shubo, Sun Mengyao, Wang Fang