

目 次

综 述

- 1 海洋放射性污染生态风险评价研究进展
叶素芬, 张璐平, 陈伟琪
- 12 邻苯二甲酸酯类对水生食物链的影响研究进展
孙翠竹, 李富云, 涂海峰, 贾芳丽, 李锋民
- 25 生物扰动对沉积物中重金属迁移转化影响的研究进展
何怡, 门彬, 杨晓芳, 徐慧, 王东升
- 37 化学污染物对鱼鳃的毒理学研究进展
韩建, 何秋霞, 韩利文, 陈锡强, 刘可春
- 44 水环境中四环素类抗生素降解及去除研究进展
张杏艳, 陈中华, 邓海明, 杨楷, 龚胜, 卢文学, 蓝海恩

专 论

- 53 有机污染物的被动采样材料-水分配系数的 QSAR 研究
杨蕾, 罗翔, 王雅, 张亚南, 陈景文
- 61 溢油分散剂中吐温 80 对石油中多环芳烃在海水中光降解的影响
陈启宁, 谢晴
- 67 蔬菜水果中的新烟碱类农药残留量与人群摄食暴露健康风险评价
谭颖, 张琪, 赵成, 王心怡, 李敬尧, 王丹, 周莹, 卢晓霞
- 82 苯系物联合暴露仿刺参管足转录组差异表达基因分析
潘永嘉, 周遵春, 王摆, 高杉, 孙红娟, 关晓燕, 董颖, 闫喜武
- 93 镉胁迫下黑点青鳉(*Oryzias melastigma*)肝脏金属硫蛋白 mRNA 性别差异性表达研究
谢晴, 薄军, 郑榕辉, 洪幅坤, 张玉生
- 102 PFOS 对多齿围沙蚕 CYPs、GST 基因转录及酶活性的毒性效应
陈西, 阎希柱, 宿丽丽
- 112 全氟辛烷磺酸(PFOS)对三角帆蚌肝胰腺的氧化性损伤
潘若雷, 杨淑雯, 江敏
- 121 基于 PBPK 模型的大鼠体内镉分布的比较:联合暴露及单独暴露
蒋艳雪, 贾宜静, 晁思宏, 曹红斌
- 128 活性氧和钙信号参与铅对酵母细胞的毒性作用
张瑞刚, 仪慧兰
- 134 罗红霉素对不同生长期小麦土壤氮形态和脲酶活性的影响
余彬彬, 程立娟, 王斐, 周启星
- 144 汞和砷单一及联合暴露对日本沼虾的氧化应激效应
刘祥, 王敏, 刘俊杰, 陈凯, 胡柳明, 陈求稳
- 153 饵料对稀有鮕鲫幼鱼和成鱼生长的影响及摄食优化策略研究
王绿平, 赵华清, 殷浩文
- 163 纹缟虾虎鱼对 Cu^{2+} 、 Cd^{2+} 和氨氮的毒性响应和敏感性分析
郝雅, 朱丽岩, 巩文静, 韩萃, 江田田
- 171 玉米赤霉烯酮暴露对秀丽线虫生殖系统的损伤作用
杨振东, 王加生, 唐莉莉, 孙秀兰, Kathy S. Xue
- 177 eChemPortal 及其在我国重点环境管理危险化学品环境风险评估中的应用
贺少鹏
- 187 水稻幼苗镉积累特征和离体叶片耐镉性的基因型差异
王龙, 杨益新, 高子平, 尹洁, 刘洋, 张长波, 汤继华, 刘仲齐

- 197 大辽河表层水中邻苯二甲酸酯分布特征及环境健康风险评价
时瑶,马迎群,秦延文,刘志超,杨晨晨,迟明慧
- 207 镉胁迫对脊尾白虾的毒性效应研究
薛蓓,张培,李志辉,赵莲,赖晓芳,陈建华,高煥,阎斌伦
- 214 狼尾草根系对阿特拉津长期胁迫的氧化应激响应
马兵兵,姜昭,Kehinde Olajide Erinle,曹博,李金梅,陈玉坤,张颖
- 223 稻瘟酰胺在水/沉积物中的降解及生物富集性研究
吴文铸,孔德洋,何健,单正军
- 230 羰基镍急性中毒对大鼠骨髓细胞的 DNA 损伤
赵亚学,李宇,马国煜,刘静,王秋英,张小培,宣小强,闫铭锋,吴喜江,程宁
- 234 吡啶硫酮金属对华美盘管虫抗氧化性的影响
陈新,覃宗敏,李紫薇,王超超,商群,唐敏
- 242 4 种甲氧基丙烯酸酯类杀菌剂不同剂型对斑马鱼急性毒性效应
贾伟,蒋红云,张兰,张燕宁,毛连刚
- 252 中国南方稻田土壤汞含量及潜在危害评价
赵慧芳,闫海鱼,王训,冯新斌
- 259 稳健统计在快速生物降解性试验质量分析中的应用
邓桂荣,梅承芳,柳燕贞,张宏涛,陈泽芳,曾国驱
- 266 悬浮物对褐牙鲈抗氧化酶活性及相关基因表达的影响
肖广侠,徐文远,贾磊,郑德斌,韩现芹,陈春秀
- 277 羰基镍急性染毒致大鼠淋巴细胞 DNA 损伤的剂量时间效应
芦永斌,李宇,马国煜,王秋英,刘静,吴喜江,宣小强,徐东海,程宁
- 282 外源 Hg 胁迫对 3 种烟草品种叶绿素含量和光合效应的影响
吴敏兰,王果,李苾苾,贾洋洋,杨林通
- 291 Definition of Planarian Mortality in an Acute Toxicity Test: A Case Study on *Dugesia japonica* Exposed to 1-Octyl-3-methylimidazolium Bromide
Zhang Hecai, Liu Tongyi, Liu Yanfang, Zhang Jie, Wang Zhige, Chen Guangwen
- 296 新型杀菌剂氟吡菌胺对 9 种环境生物急性毒性及其在斑马鱼体内的生物富集
林璁,高云,慕卫,王开运,许辉,刘杰
- 306 镉对 3 株不同地点生长的大麻生长及矿质元素吸收的影响
孙红艳,戴华鑫,卫怡颖,王宇娜,王国辉
- 313 短期酸化对新安江流域屯溪段水体浮游植物群落结构及多样性的影响
李伟,杨雨玲,董丽丽,黄松,王金币,刘家凯,方杰,陆术伟,高心明,韩兴
- 323 联苯菊酯暴露对雌性褐菟鲈卵巢发育的影响及其毒性机制
李进寿,罗芬,阮少江,阮俊峰,王楠楠
- 330 化学品急性毒性藻红测试技术的方法改进研究
郭蔚华,李星广,林艳,杨鹏飞
- 338 经皮肤暴露四溴双酚 A 对 Wistar 雄性大鼠的毒性效应
向明灯,高丹丹,李红艳,李良忠,于紫玲,汪正东,林必桂,于云江
- 345 水环境中重金属铜暴露下青鳉鱼的行为响应
梁鸿,刘勇,饶凯锋,马梅,许旺,唐亮,马嵩,潘晓峰,陈慧明,杨莹莹
- 353 总目录

CONTENTS

- 1 Progress of Ecological Risk Assessment for Marine Radioactive Pollution
Ye Sufen, Zhang Luoping, Chen Weiqi
- 12 Review on the Impact of Phthalate Esters on Aquatic Food Chain
Sun Cuizhu, Li Fuyun, Tu Haifeng, Jia Fangli, Li Fengmin
- 25 Bioturbation Effect on the Migration and Transformation of Heavy Metals in Sediment: A Review
He Yi, Men Bin, Yang Xiaofang, Xu Hui, Wang Dongsheng
- 37 Review on Toxicology of Chemical Pollutants on Fish Swimbladder
Han Jian, He Qiuxia, Han Liwen, Chen Xiqiang, Liu Kechun
- 44 A Review on Degradation and Elimination of Tetracycline Antibiotics in Water Environment
Zhang Xingyan, Chen Zhonghua, Deng Haiming, Yang Kai, Gong Sheng, Lu Wenxue, Lan Haien
- 53 QSAR Models for Predicting Partition Coefficients of Organic Pollutants between Passive Sampling Materials and Water
Yang Lei, Luo Xiang, Wang Ya, Zhang Ya'nan, Chen Jingwen
- 61 Effects of Tween 80 in Oil Spill Dispersants on Photodegradation of PAHs from Spilled Oil in Seawater
Chen Qining, Xie Qing
- 67 Residues of Neonicotinoid Pesticides in Vegetables and Fruit and Health Risk Assessment of Human Exposure via Food Intake
Tan Ying, Zhang Qi, Zhao Cheng, Wang Xinyi, Li Jingyao, Wang Dan, Zhou Ying, Lu Xiaoxia
- 82 Analysis of Differentially Expressed Genes in the Tube Feet of Sea Cucumber (*Apostichopus japonicus*) Co-exposed to BTEXs by Transcriptome Sequencing
Pan Yongjia, Zhou Zunchun, Wang Bai, Gao Shan, Sun Hongjuan, Guan Xiaoyan, Dong Ying, Yan Xiwu
- 93 Study on Gender Difference of Hepatic Metallothionein mRNA Expression of *Oryzias melastigma* Exposed to Cadmium
Xie Qing, Bo Jun, Zheng Ronghui, Hong Fukun, Zhang Yusheng
- 102 Effects of PFOS on the Genes Transcription and Enzymes Activity of CYPs, GST in Polychaete *Perinereis nuntia*
Chen Xi, Yan Xizhu, Su Lili
- 112 Perfluorooctane Sulfonate (PFOS)-Induced Oxidative Damage in Hepatopancreas of *Hyriopsis cumingii*
Pan Ruolei, Yang Shuwen, Jiang Min
- 121 Comparison of Cadmium Distribution in Rats between Exposed to Individual Cadmium and Heavy Metals Mixture Based on PB-PK Model
Jiang Yanxue, Jia Yijing, Chao Sihong, Cao Hongbin
- 128 ROS and Calcium Signal is Involved in Lead Toxicity in Yeast Cells
Zhang Ruigang, Yi Huilan
- 134 Effect of Roxithromycin (ROX) on Soil Nitrogen Speciation and Soil Urease in the Different Growth Stage of Wheat
Yu Binbin, Cheng Lijuan, Wang Fei, Zhou Qixing
- 144 Effects of Oxidative Stress on *Macrobrachium nipponense* Induced by Single and Joint Exposure to Mercury and Arsenic
Liu Xiang, Wang Min, Liu Junjie, Chen Kai, Hu Liuming, Chen Qiuwen
- 153 Effects of Fish Feed on Growth of Juvenile and Adult *Gobiocypris rarus* and Strategy Study on Feeding Optimization
Wang Lvping, Zhao Huaqing, Yin Haowen
- 163 Toxic Response and Sensitivity of *Tridentiger trionocephalus* to Cu^{2+} , Cd^{2+} and Ammonia Nitrogen
Hao Ya, Zhu Liyan, Gong Wenjing, Han Cui, Jiang Tiantian
- 171 The Reproductive Toxic Effects of Zearalenone on *Caenorhabditis elegans*
Yang Zhendong, Wang Jia-Sheng, Tang Lili, Sun Xiulan, Kathy S. Xue
- 177 eChemPortal and Its Application in the Environmental Risk Assessment of Prioritized Hazardous Chemicals for Environmental Regulation
He Shaopeng

- 187 Genotypic Difference of Cadmium Accumulation Characteristics and Cadmium Tolerance in Detached Leaves of Rice (*Oryza sativa* L.) Seedlings
Wang Long, Yang Yixin, Gao Ziping, Yin Jie, Liu Yang, Zhang Changbo, Tang Jihua, Liu Zhongqi
- 197 Distribution Characteristics and Environmental Health Risk Assessment of Phthalic Acid Esters in Surface Water of the Daliao River, China
Shi Yao, Ma Yingqun, Qin Yanwen, Liu Zhichao, Yang Chenchen, Chi Minghui
- 207 Toxicity Effects of Cadmium on the Ridgetail White Prawn *Exopalaemon carinicauda*
Xue Bei, Zhang Pei, Li Zhihui, Zhao Lian, Lai Xiaofang, Chen Jianhua, Gao Huan, Yan Binlun
- 214 Oxidative Stress Response in Root of *Pennisetum americanum* L. (cv. K. Schum) to Long Term Atrazine Exposure
Ma Bingbing, Jiang Zhao, Kehinde Olajide Erinle, Cao Bo, Li Jinmei, Chen Yukun, Zhang Ying
- 223 Degradation in Water-Sediment and Bioconcentration of Fenoxanil
Wu Wenzhu, Kong Deyang, He Jian, Shan Zhengjun
- 230 DNA Damage in Bone Marrow Cells of Rat Acutely Poisoned with Nickel Carbonyl
Zhao Yaxue, Li Yu, Ma Guoyu, Liu Jing, Wang Qiuying, Zhang Xiaopei, Xuan Xiaoqiang, Yan Mingfeng, Wu Xijiang, Cheng Ning
- 234 Effect of Metal Pyrithione on Antioxidant Activity in *Hydroides elegans*
Chen Xin, Qin Zongmin, Li Ziwei, Wang Chaochao, Shang Qun, Tang Min
- 242 Acute Toxicity of Different Formulation of Four Strobilurin Fungicides to the Zebrafish (*Brachydonio rerio*)
Jia Wei, Jiang Hongyun, Zhang Lan, Zhang Yanning, Mao Liangang
- 252 Mercury Concentrations and Potential Risk Assessment of Paddy Soil in South China
Zhao Huifang, Yan Haiyu, Wang Xun, Feng Xinbin
- 259 Application of Robust Statistic Method in Quality Analysis of Ready Biodegradability Test
Deng Guirong, Mei Chengfang, Liu Yanzhen, Zhang Hongtao, Chen Zefang, Zeng Guoqu
- 266 Effects of Suspended Substances Stress on Antioxidant System Enzyme Activities and Gene Expression of *Paralichthys olivaceus*
Xiao Guangxia, Xu Wenyan, Jia Lei, Zheng Debin, Han Xianqin, Chen Chunxiu
- 277 Dose- Response and Time- Effect Relationships between Lymphocyte DNA Damage of Rats Poisoned with Nickel Carbonyl
Lu Yongbin, Li Yu, Ma Guoyu, Wang Qiuying, Liu Jing, Wu Xijiang, Xuan Xiaoqiang, Xu Donghai, Cheng Ning
- 282 Influence of Exogenous Mercury Stress on Chlorophyll Content and Photosynthetic Effect of Three Tobacco Cultivars
Wu Minlan, Wang Guo, Li Honghong, Jia Yangyang, Yang Lintong
- 291 Definition of Planarian Mortality in an Acute Toxicity Test: A Case Study on *Dugesia japonica* Exposed to 1-Octyl-3-methylimidazolium Bromide
Zhang Hecai, Liu Tongyi, Liu Yanfang, Zhang Jie, Wang Zhige, Chen Guangwen
- 296 Acute Toxicity of Fluopicolide to 9 Kinds of Environmental Organisms and Its Bioaccumulation in Zebrafish
Lin Jin, Gao Yun, Mu Wei, Wang Kaiyun, Xu Hui, Liu Jie
- 306 Effect of Cadmium on Growth Performance and Mineral Nutrient Uptake in Three Hemp Genotypes
Sun Hongyan, Dai Huaxin, Wei Yiyi, Wang Yuna, Wang Guohui
- 313 Short-term Impact of Acidification on the Community Structure and Diversity of Aquatic Phytoplankton in Xin'anjiang River Basin (Tunxi Section)
Li Wei, Yang Yuling, Dong Lili, Huang Song, Wang Jinbi, Liu Jiakai, Fang Jie, Lu Shuwei, Gao Xinming, Han Xing
- 323 Bifenthrin Exposure Disrupts the Development of Ovary in Female *Sebastiscus marmoratus* and the Mechanism Involved
Li Jinshou, Luo Fen, Ruan Shaojiang, Ruan Junfeng, Wang Nannan
- 330 Improving Methods for Algae Infrared Radiation Technology of Testing Chemicals Acute Toxicity
Guo Weihua, Li Xingguang, Lin Yan, Yang Pengfei
- 338 Toxicity Effects of Tetrabromobisphenol A in Male Wistar Rats Following Dermal Exposure
Xiang Mingdeng, Gao Dandan, Li Hongyan, Li Liangzhong, Yu Ziling, Wang Zhengdong, Lin Bigui, Yu Yunjiang
- 345 The Behavioral Responses of the Medaka under the Stress of Heavy Metal Copper in Water Environment
Liang Hong, Liu Yong, Rao Kaifeng, Ma Mei, Xu Wang, Tang Liang, Ma Song, Pan Xiaofeng, Chen Huiming, Yang Yingying