

目 次

综 述

1 我国地表水中药物与个人护理品污染现状及其繁殖毒性筛查

刘娜,金小伟,王业耀,吕怡兵,杨琦

13 海洋酸化对鱼类感觉和行为影响的研究进展

王晓杰,宋佳坤,范纯新,张旭光,郭弘艺

21 农药对陆生生物的生态毒性及风险评估

于彩虹,李春燕,林荣华,宗伏霖,姜辉,瞿唯钢

29 拟除虫菊酯杀虫剂的毒性和健康危害研究进展

李蓓茜,王安

35 纳米银材料的生物安全性研究进展

李琴琴,赵英虎,孙友谊,高莉,邵田玉

43 基于植物重金属毒性的陆地生物配体模型(t-BLM)研究进展

李季,黄益宗,胡莹,金妹兰,保琼莉,王斐,向猛,李晓敏

54 镉致癌的分子机制研究进展

吴婧,董欣敏,郑燕芳,张积仁

62 真菌毒素引起的氧化应激及其毒理学意义

王旭,黄德玉,吴庆华,程古月,袁宗辉

71 中国天然水体中五氯酚的浓度水平、管理及来源分析

陈春丽,向洪锐,戴星照,刘春英,曾艳,弓晓峰

专 论

80 环草隆对城市绿地重金属污染土壤有机氮矿化、基础呼吸及相关酶活性的影响

谷盼妮,王美娥,陈卫平

93 淮河流域安徽段水体成组生物毒性评价

阴琨,赵淑莉,郭辰,吕占禄,王先良,金小伟

101 预测沉积物-水微宇宙系统中化学品浓度变化的多介质模型

莫俊超,舒耀皋,董晶,郭丹丹,范宾,刘刚

110 纳米二氧化钛(nTiO₂)与双酚A对斜生栅藻(*Scenedesmus obliquus*)的联合毒性效应研究

赵丽红,朱小山,王一翔,晋慧,王江新,王超,劳永民,姜璐璐,陶益,周进,蔡中华

121 应用概率物种敏感度分布法研究太湖重金属水生生物水质基准

赵芊渊,侯俊,王超,王沛芳,苗令占,吕博文,顾起豪

129 非毒性剂量重金属锑通过改变细胞脂代谢促进前列腺癌进展

李晓健,姜行康,高明,孔佑胜,潘东亮,李宁忱,刘思金

136 不同粒径矿化垃圾对大麦生长发育和斑马鱼胚胎毒性效应研究

李广科,贾午耀,库婷婷,闫微,宁夏,张英英,姬晓彤,桑楠

144 全氟辛烷基磺酸钾(PFOS)和纳米氧化锌(Nano-ZnO)复合暴露对斑马鱼下丘脑-垂体-甲状腺轴功能的影响

杜佳,王树涛,尤宏

154 内蒙古呼和浩特市大气TSP和PM₁₀中PAHs的健康风险评价

刘薇薇,塔娜,赵星华,韩春霞

159 围生期毒死蜱暴露致子代8周雄鼠睾丸组织的氧化损伤

徐肖倩,张敏,王学梅,方鑫,李海玲,戴红,肖瑞

166 芹菜素对丙烯腈引起大鼠精子脂质过氧化的DNA损伤的影响

陈军义,赵乾龙,张洁,常锐霞,赵晓非,党瑜慧,李芝兰

173 高碑店湖表层水中雌激素的分布及其光降解影响因素

张帅,王京刚,马晶晶,齐维晓

- 181 食物源 nC₆₀损害斑马鱼脑、鳃、肾和肝胰腺正常机能
陶贤继,黎翠兰,刘冬雨,魏华,何义亮,吕为群
- 191 消油剂与 120#燃料油对马粪海胆 (*Hemicentrotus pulcherrimus*) 抗氧化酶活性的影响
段美娜,杨柏林,丁光辉,熊德琪
- 199 黑土微生物量和酶活性对邻苯二甲酸二丁酯污染的响应
王志刚,赵晓松,徐伟慧,苏云鹏,由义敏,刘帅,胡影,胡云龙,张颖
- 206 溴氰菊酯对菲律宾蛤仔体内酶活性和组织损伤的初步探索
许贻斌,郑惠东,陈宇锋,郑盛华,陈小红,钟硕良
- 213 5 氟尿嘧啶对蛋白核小球藻和羊角月芽藻生长及叶绿素含量的影响
李威,恽烨,是怡芸,张银龙
- 219 铁矿区水环境样品对秀丽隐杆线虫的毒性研究
郭肖颖,王磊,王斌,赵竑绯,徐文静,李敏,李虹颖,施六林
- 229 漳河流域鲫鱼体内重金属分布及风险评价
王瑞霖,孙然好,武大勇
- 238 南运河重金属污染状况及生态风险评价
郭晓,李国良,陈求稳,刘孝利
- 246 基于 *esp* 基因和 JCV 标记的 MST 方法在五大流域典型水源地中的应用
王敬琦,孔维文,刘婷婷,陈南,杨柏云,何晓青
- 253 超高压工程电缆绝缘油对海洋生物的生态毒性效应
韦桂秋,蔡伟叙,郑琰晶,吕向立,易斌,徐志斌,陈嘉辉
- 264 CdTe/ZnSQDs 在小鼠肾脏中的药代动力学特征
田蜜,刘娜,于秋红,刘裕婷,黄沛力
- 269 氰戊菊酯对斑马鱼和稀有鮈类不同生命阶段的毒性效应
蒋金花,陈江滨,吴声敢,俞瑞鲜,王彦华,苍涛,蔡磊明,赵学平
- 276 5 种化学品对丽斑麻蜥和日本鹌鹑的毒性研究
常静,杨淞霖,戴欣,李济彤,王会利,李伟
- 281 5 种酚类物质对中国白羽鹌鹑和中华蜂蜜的急性毒性
戴欣,常静,李济彤,杨淞霖,李建中,王会利
- 287 6 种重金属对 3 种海水养殖生物的急性毒性效应
秦华伟,刘爱英,谷伟丽,陶慧敏,李佳蕙,李斌,孙珊,姜会超
- 297 蚕豆对铯的吸收蓄积及亚细胞分布研究
付倩,杨垒滟,赖金龙,陶宗娅,吴国,罗学刚
- 305 水胺硫磷亚急性暴露对小鼠肝脏氧化应激的影响
边高鹏,焦海华,史宝忠,张晓俊
- 313 四氯丙烯对稀有鮈类的急性毒性及安全浓度评价
胡传禄,舒耀皋,刘刚,严虎,汪丹,武娟,金昊坤,姚洪伟
- 320 双酚 AF 对雄性斑马鱼卵黄蛋白原水平与芳香化酶基因表达的影响
陈亚文,杨洋,唐天乐,唐文浩
- 328 总目录

CONTENTS

- 1 Pharmaceuticals and Personal Care Products (PPCPs) Caused Reproductive Toxicity in Surface Water of China: A Review
Liu Na, Jin Xiaowei, Wang Yeyao, Lv Yibing, Yang Qi
- 13 Impacts of Ocean Acidification on Sensory System and Behavior in Marine Fish
Wang Xiaojie, Song Jiakun, Fan Chunxin, Zhang Xuguang, Guo Hongyi
- 21 Eco-toxicity and Risk Assessment of Pesticide on Terrestrial Organisms
Yu Caihong, Li Chunyan, Lin Ronghua, Zong Fulin, Jiang Hui, Qu Weigang
- 29 A Review on the Toxicity of Pyrethroid Pesticides and Their Harms to Population Health
Li Beixi, Wang An
- 35 A Review on the Research Progress of Biological Safety of Nanosilver Materials
Li Qinjin, Zhao Yinghu, Sun Youyi, Gao Li, Shao Tianyu
- 43 Review of the Terrestrial Biotic Ligand Model in Predicting Phytotoxicity of Heavy Metals in Soil
Li Ji, Huang Yizong, Hu Ying, Jin Shulan, Bao Qiongli, Wang Fei, Xiang Meng, Li Xiaomin
- 54 Recent Research Progress in Molecular Mechanisms of Cadmium Induced Carcinogenesis
Wu Jing, Dong Xinmin, Zheng Yanfang, Zhang Jiren
- 62 Oxidative Stress Induced by Mycotoxins and Its Toxicological Significance
Wang Xu, Huang Deyu, Wu Qinghua, Cheng Guyue, Yuan Zonghui
- 71 Occurrence, Management and Source Attribution of Pentachlorophenol in Water Environment of China
Chen Chunli, Xiang Hongrui, Dai Xingzhao, Liu Chunying, Zeng Yan, Gong Xiaofeng
- 80 Effects of Siduron on Organic Nitrogen Mineralization, Basal Respiration and Related Enzyme Activities in Heavy Metal Polluted Urban Soil
Gu Panni, Wang Meie, Chen Weiping
- 93 Evaluation on Water Bodies in Anhui Section of Huaihe River Basin by a Battery of Bioassays
Yin Kun, Zhao Shuli, Guo Chen, Lv Zhanlu, Wang Xianliang, Jin Xiaowei
- 101 A Multimedia Model for Prediction of Chemicals Concentration Changes in Sediment-Water Microcosm Systems
Mo Junchao, Shu Yaogao, Dong Jing, Guo Dandan, Fan Bin, Liu Gang
- 110 The Combined Toxic Effect of Nanoscale Titanium Dioxide ($n\text{TiO}_2$) and Bisphenol A (BPA) on *Scenedesmus obliquus*
Zhao Lihong, Zhu Xiaoshan, Wang Yixiang, Jin Hui, Wang Jiangxin, Wang Chao, Lao Yongmin, Jiang Yuelu, Tao Yi, Zhou Jin, Cai Zhonghua
- 121 Deriving Aquatic Water Quality Criteria for Heavy Metals in Taihu Lake by Probabilistic Species Sensitivity Distribution
Zhao Qianyuan, Hou Jun, Wang Chao, Wang Peifang, Miao Lingzhan, Lv Bowen, Gu Qihao
- 129 Non-toxic Dose of Antimony Exposure Could Enhance the Intracellular Energy Metabolism and Promote Prostate Cancer Progression
Li Xiaoqian, Jiang Xingkang, Gao Ming, Kong Yousheng, Pan Dongliang, Li Ningchen, Liu Sijin
- 136 The Particle-size Dependent Effects of Aged Refuse on the Growth and Development of Barley Seedlings and Zebrafish Embryos
Li Guangke, Jia Wuyao, Ku Tingting, Yan Wei, Ning Xia, Zhang Yingying, Ji Xiaotong, Sang Nan
- 144 Co-Exposure to PFOS and Nano-ZnO Disrupted the Hypothalamus-Pituitary-Thyroid Axis in Zebrafish Larvae
Du Jia, Wang Shutao, You Hong
- 154 Health Risk Assessment of PAHs in Atmospheric TSP and PM_{10} of Hohhot of Inner Mongolia
Liu Weiwei, Tana, Zhao Xinghua, Han Chunxia
- 159 Perinatal Exposure to Chlorpyrifos Induced Testicular Oxidative Damage in 8 Week Offspring Male Rat
Xu Xiaoqian, Zhang Min, Wang Xuemei, Fang Xin, Li Hailing, Dai Hong, Xiao Rui
- 166 Effect of Apigenin on Acrylonitrile-Induced Lipid Peroxidation and DNA Damage in Sperm of Male Rats
Chen Junyi, Zhao Qianlong, Zhang Jie, Chang Ruixia, Zhao Xiaofei, Dang Yuhui, Li Zhilan
- 173 Occurrence and Photodegradation of Estrogens in Surface Water of Gaobeidian Reservoir
Zhang Shuai, Wang Jinggang, Ma Jingjing, Qi Weixiao
- 181 The Dietary Uptake of Nanocrystals ($n\text{C}_{60}$) Decreases the Functions of Gill, Kidney and Hepatopancreas of Zebrafish (*Danio rerio*)
Tao Xianji, Li Cuilan, Liu Dongyu, Wei Hua, He Yiliang, Lu Weiquan

- 191 Effects of Dispersant and 120 # Fuel Oil on Four Antioxidant Enzyme Activities in *Hemicentrotus pulcherrimus*
Duan Meina, Yang Bailin, Ding Guanghui, Xiong Deqi
- 199 Response of Microbial Biomass and Enzyme Activities in Black Soil to Di-*n*-butyl Phthalate Contamination
Wang Zhigang, Zhao Xiaosong, Xu Weihui, Su Yunpeng, You Yimin, Liu Shuai, Hu Ying, Hu Yunlong, Zhang Ying
- 206 Preliminary Exploration on the Effects of Deltamethrin on Enzyme Activity and Organs Injury in *Ruditapes philippinarum*
Xu Yibin, Zheng Huidong, Chen Yufeng, Zheng Shenghua, Chen Xiaohong, Zhong Shuoliang
- 213 Effects of 5-Fluorouracil on the Growth and Chlorophyll Content of *Chlorella pyrenoidosa* and *Selenastrum capricornutum*
Li Wei, Yun Ye, Shi Yiyun, Zhang Yinlong
- 219 A Study on Toxicity of Water Sample from Iron Mine Area on *Caenorhabditis elegans*
Guo Xiaoying, Wang Lei, Wang Bin, Zhao Hongfei, Xu Wenjing, Li Min, Li Hongying, Shi Liulin
- 229 Distribution and Risk Assessment of Heavy Metals in Crucian Carp (*Carassius auratus*) of Luan River
Wang Ruilin, Sun Ranhai, Wu Dayong
- 238 Contamination Status and Ecological Risk Assessments of Heavy Metals in the South Canal
Guo Xiao, Li Guoliang, Chen Qiuwen, Liu Xiaoli
- 246 Detection of *Enterococcus esp* Gene and Polyomavirus JCV and Its Application in Typical Water Sources of Five River Basins
Wang Jingqi, Kong Weiwen, Liu Tingting, Chen Nan, Yang Boyun, He Xiaoqing
- 253 Toxicity of Insulating Oil to Marine Organisms
Wei Guiqiu, Cai Weixu, Zheng Yanjing, Lv Xiangli, Yi Bin, Xu Zhibin, Chen Jiahui
- 264 Pharmacokinetic Characteristics of CdTe/ZnSQDs in Kidney of the Mice
Tian Mi, Liu Na, Yu QiuHong, Liu Yuting, Huang Peili
- 269 Toxicity Effects of Fenvalerate to Different Life Stages of Zebrafish (*Danio rerio*) and Chinese Rare Minnow (*Gobiocypris rarus*)
Jiang Jinhua, Chen Jiangbin, Wu Shenggan, Yu Ruixian, Wang Yanhua, Cang Tao, Cai Leiming, Zhao Xueping
- 276 Toxicity Assessment of Five Chemicals on *Eremias argus* and *Coturnix japonica*
Chang Jing, Yang Songlin, Dai Xin, Li Jitong, Wang Huili, Qu Weigang
- 281 Acute Toxicities of Five Phenols to Chinese Recessive White Feather Quail and *Apis cerana cerana*
Dai Xin, Chang Jing, Li Jitong, Yang Songlin, Li Jianzhong, Wang Huili
- 287 Acute Toxicity of Six Heavy Metals on Three Aquaculture Organisms
Qin Huawei, Liu Aiying, Gu Weili, Tao Huimin, Li Jiahui, Li Bin, Sun Shan, Jiang Huichao
- 297 Tissue Accumulation and Subcellular Distribution of Cesium in *Vicia Faba*
Fu Qian, Yang Leiyan, Lai Jinlong, Tao Zongya, Wu Guo, Luo Xuegang
- 305 Oxidative Stress of Isocarbophos on the Liver of Mice in A Subacute Exposure
Bian Gaopeng, Jiao Haihua, Shi Baozhong, Zhang Xiaojun
- 313 Acute Toxicity Test of Tetrachloropropene to Rare Gudgeon and Determination of Safe Concentration
Hu Chuanlu, Shu Yaogao, Liu Gang, Yan Hu, Wang Dan, Wu Juan, Jin Haokun, Yao Hongwei
- 320 Effects of Bisphenol AF on Level of Vitellogenin and Expressions of Cytochrome P450 Aromatase (*cyp 19a* and *b*) in Male Zebrafish
Chen Yawen, Yang Yang, Tang Tianle, Tang Wenhao