

目 次

综述

- 1 基于斑马鱼毒理基因组学的化学品测试技术研究进展
王志浩, 彭颖, 王萍萍, 夏普, 张效伟
- 11 生理毒代动力学模型及其在有机污染物水生生态毒理研究中的应用
吕银知, 张芊芊, 赵建亮, 姚理, 应光国
- 27 放射性核素水环境质量标准研究进展
杜金秋, 王震, 林武辉, 关道明, 姚子伟
- 37 双酚 S 和双酚 F 在水环境中的分布、毒理效应及其生态风险研究进展
沈杰, 刘建超, 陆光华, 但孝香
- 49 纳米银的迁移转化对环境微生物毒性的影响
卢雪蓉, 冯晓丽, 刘朝莹, 李潜
- 58 多氯联苯羟基化代谢物及其雌激素效应研究进展
黄苑, 苏晓鸥, 王瑞国, 张维
- 69 草甘膦对非靶标生物的毒性研究进展
张合彩, 杨玉娟, 石长应, 陈广文

专论

- 76 环境 DNA(eDNA)宏条形码技术对枝角类浮游动物物种鉴定及其生物量监测研究
孙晶莹, 杨江华, 张效伟
- 87 我国地表水中磷酸三苯酯的多层次生态风险评估
罗莹, 刘娜, 徐建, 胡秀峰, 许宜平, 金小伟
- 97 林丹通过 MAPK 和 UPR 通路与干扰线粒体功能诱导黑腹果蝇(*Drosophila melanogaster*)肿瘤细胞迁移
沈佳颖, 于振洋, 尹大强, 李文哲
- 110 磺胺和四环素类抗生素对大肠杆菌联合突变效应的研究
宋雪薇, 马清萍, 于洋, 宋春磊, 林志芬, 张饮江
- 118 磺胺类化合物对大肠杆菌突变 QSAR 预测模型初探
巫晓丹, 马清萍, 宋春磊, 林志芬, 印春生
- 128 均分等效面设计法的建立及其用于三组分混合物等效面的构建
葛会林, 陶珊珊, 朱祥伟, 袁宏球, 吕岱竹
- 140 基于 FH 插值法构建的二元有机磷农药联合作用新模型在等效线图法中的研究
朱涛, 赵前进, 王春花
- 147 腈菌唑不同对映体对丽斑麻蜥性腺系统的影响
朱飞龙, 郝伟玉, 尹晶, 常静, 李济彤, 李建中, 李伟, 王会利
- 156 腈菌唑手性单体对雄性丽斑麻蜥肝脏代谢功能的影响
朱飞龙, 郝伟玉, 胡晓, 焦萌, 常静, 李济彤, 李建中, 李伟, 王会利
- 163 百草枯急性暴露对肝细胞 L-O2 的毒理研究
许梦川, 谈勇, 李小满, 李前, 吴跃峰, 李东明
- 171 湖北农村燃柴和燃煤家庭大气多环芳烃污染特征和呼吸暴露风险
彭彬, 苏玉红, 杜伟, 卓少杰, 韵潇, 刘伟健, 陈源琛, 沈国锋, 陶澍

- 182 室内粪土模型中土霉素对主要反硝化基因转录水平和菌群结构特征的影响
林曼霞,邹勇,孙永学
- 190 胚胎期草甘膦铵盐暴露对中华鳖幼体的表型与生理表现的影响
叶梦婷,傅诗雨,岑绮雯,吴琼,胡英超,陆洪良
- 200 低剂量丙烯酰胺多世代持续暴露对秀丽隐杆线虫的损伤作用
屠泽慧,聂文,郭肖颖,蔡克周
- 208 市政污水处理厂二级出水消毒前后对斑马鱼幼鱼的毒性
张雅晶,缪恒锋,张晓夏,阮文权
- 218 短链氯化石蜡(SCCPs)和多环芳烃(PAHs)联合暴露对 HepG2 细胞抗氧化系统的影响
王菲迪,张海军,耿柠波,任晓倩,张保琴,宫玉峰,陈吉平
- 226 锌在不同磷源条件下对铜绿微囊藻生长与产毒的影响
王举,李婧,陈荣,沈莹
- 235 2 种新烟碱类杀虫剂对秀丽隐杆线虫神经毒性研究
何雪珠,李洪博,胡亚茹,刘馥雯,林森,陆强,林匡飞
- 242 草甘膦对雄性大鼠睾酮合成的影响
赵焕焕,庚天琦,张燕,张旸
- 248 氯霉素对大型蚤的急性和慢性毒性效应研究
杨灿,沈根祥,胡双庆,朱英,张洪昌,曹国民
- 256 苯胺对小鼠成纤维细胞 L929 的体外毒性评价
蒋伟,朱洪坤,清江
- 262 磷酸三(1,3-二氯-2-丙基)酯对 L-02 肝细胞氧化应激及凋亡损伤机制
夏沪彬,陈超,李辉,张运超,王平,庄金龙,安澈,鲁军
- 272 广州市居民食品砷摄入的健康风险评价
廖文,吴烨,汪光,赵文博,李艳静,李开明,陈中颖,任秀文,吴仁人
- 281 增塑剂邻苯二甲酸二异壬酯对雄性小鼠生殖毒性的氧化损伤机制
陈莹莹,葛淑珍,黄健,张也,向先兰,武阳,晏彪,马萍
- 288 三氯化铝在酸性环境中对斑马鱼幼鱼运动及学习记忆能力的影响
张萍,贺凯宏,陈建平,尚楠,牛侨,张勤丽
- 296 纳米四氧化三铁吸附水中六价铬后的复合物对 HEK293 细胞的毒性研究
李专,刘森,陈明辉,张竹青
- 305 铀尾矿库区稻田土中放射性核素的空间分布和放射性水平评价
刘媛媛,张春艳,魏强林,郭亚丹,高柏,周维博

学术微视角

- 313 Quantum Toxicological Research is Very Important, Which Should be Paid Attention
Jiang Yunshen, Mo Baoqing

CONTENTS

- 1 Advances of Chemical Testing Methodologies Based on Zebrafish Toxicogenomics
Wang Zhihao, Peng Ying, Wang Pingping, Xia Pu, Zhang Xiaowei
- 11 Physiologically Based Toxicokinetic Models and Application in Aquatic Ecotoxicological Studies of Organic Pollutants: A Review
Lv Yinzhi, Zhang Qianqian, Zhao Jianliang, Yao Li, Ying Guangguo
- 27 Research Progress of the Water Quality Standards on Radionuclides
Du Jinqiu, Wang Zhen, Lin Wuhui, Guan Daoming, Yao Ziwei
- 37 A Review of the Occurrence, Toxicology and Ecological Risk Assessment of Bisphenol S and F in Aquatic Environment
Shen Jie, Liu Jianchao, Lu Guanghua, Dan Xiaoxiang
- 49 Impact of Migration and Transformation of AgNPs on its Toxicity towards Environmental Microorganism
Lu Xuerong, Feng Xiaoli, Liu Zhaoying, Li Qian
- 58 Advances on Hydroxylated Polychlorinated Biphenyls Metabolites and the Estrogenic Effects
Huang Yuan, Su Xiao-Ou, Wang Ruiguo, Zhang Wei
- 69 Advance in Biotoxicity Research of Glyphosate on Non-target Organisms
Zhang Hecai, Yang Yujuan, Shi Changying, Chen Guangwen
- 76 Identification and Biomass Monitoring of Zooplankton Cladocera Species with eDNA Metabarcoding Technology
Sun Jingying, Yang Jianghua, Zhang Xiaowei
- 87 A Tiered Ecological Risk Assessment of Triphenyl Phosphate in Chinese Surface Waters
Luo Ying, Liu Na, Xu Jian, Hu Xiufeng, Xu Yiping, Jin Xiaowei
- 97 Tumor Cell Migration of *Drosophila melanogaster* by Lindane Exposure with Involvement of MAPK and UPR Pathways and Mitochondrial Dysfunction
Shen Jiaying, Yu Zhenyang, Yin Daqiang, Li Wenzhe
- 110 Combined Mutation Effect of Sulfonamide and Tetracycline Antibiotics against *Escherichia coli*
Song Xuewei, Ma Qingping, Yu Yang, Song Chunlei, Lin Zhifen, Zhang Yinjiang
- 118 QSAR Prediction Model Based on the Mutation Effect of Sulfonamides on *Escherichia coli*
Wu Xiaodan, Ma Qingping, Song Chunlei, Lin Zhifen, Yin Chunsheng
- 128 Establishment of Equipartition Equivalent-Surface Design Method and Its Application in Constructing Equivalent-Surface of Ternary Components
Ge Huilin, Tao Shanshan, Zhu Xiangwei, Yuan Hongqiu, Lv Daizhu
- 140 Study on A New Combined Effects Model of Binary Mixtures of Organophosphate Pesticides Using FH Interpolation Method to Isobogram
Zhu Tao, Zhao Qianjin, Wang Chunhua
- 147 Effects of Myclobutanil Enantiomers on the Gonadal System in Mongolia Racerunner (*Eremias argus*)
Zhu Feilong, Hao Weiyu, Yin Jing, Chang Jing, Li Jitong, Li Jianzhong, Li Wei, Wang Huili
- 156 Effects of Myclobutanil Enantiomers on Liver Metabolic Function in Male Mongolia Racerunner (*Eremias argus*)
Zhu Feilong, Hao Weiyu, Hu Xiao, Jiao Meng, Chang Jing, Li Jitong, Li Jianzhong, Li Wei, Wang Huili
- 163 Toxicological Effects of Acute Paraquat Exposure on L-O2 Hepatocytes
Xu Mengchuan, Tan Yong, Li Xiaoman, Li Qian, Wu Yuefeng, Li Dongming
- 171 Household Air Pollution by Polycyclic Aromatic Hydrocarbons in Homes Burning Wood and Coals and Inhalation Exposure Risks in Rural Hubei
Peng Bin, Su Yuhong, Du Wei, Zhuo Shaojie, Yun Xiao, Liu Weijian, Chen Yuanchen, Shen Guofeng, Tao Shu

- 182 Effects of Oxytetracycline on the Transcriptional Characteristics of Dominant Denitrification Genes and Flora Structure Characteristics in Indoor Manure -Soil Model
Lin Manxia, Zou Yong, Sun Yongxue
- 190 Effects of Glyphosate-ammonium Exposure on Hatchling Phenotypes and Physiological Performances in the Chinese Soft-shelled Turtle during the Embryonic Stage
Ye Mengting, Fu Shiyu, Cen Qiwen, Wu Qiong, Hu Yingchao, Lu Hongliang
- 200 Multiple Generations Exposure of Low Dose Acrylamide Damage *Caenorhabditis elegans*
Tu Zehui, Nie Wen, Guo Xiaoying, Cai Kezhou
- 208 Toxicity Effects of Chlorinated and Non-chlorinated Secondary Effluent on Juvenile Zebrafish
Zhang Yajing, Miao Hengfeng, Zhang Xiaoxia, Ruan Wenquan
- 218 Combined Effects of SCCPs and PAHs on the Antioxidant System in HepG2 Cells
Wang Feidi, Zhang Haijun, Geng Ningbo, Ren Xiaoqian, Zhang Baoqin, Gong Yufeng, Chen Jiping
- 226 Effect of Zinc on Growth and Toxin Production of *Microcystis aeruginosa* under Different Phosphorus Sources
Wang Ju, Li Jing, Chen Rong, Shen Ying
- 235 Neurotoxicity of Two Neonicotinoid Insecticides to *Caenorhabditis elegans*
He Xuezhu, Li Hongbo, Hu Yaru, Liu Fuwen, Lin Sen, Lu Qiang, Lin Kuangfei
- 242 Effects of Glyphosate on Testosterone Synthesis in Male Rats
Zhao Huanhuan, Geng Tianqi, Zhang Yan, Zhang Yang
- 248 Acute and Chronic Toxicity of Chloramphenicol to *Daphnia magna*
Yang Can, Shen Genxiang, Hu Shuangqing, Zhu Ying, Zhang Hongchang, Cao Guomin
- 256 Cytotoxicity Evaluation of Phenylamines to L929 Cell Lines *in Vitro*
Jiang Wei, Zhu Hongkun, Qing Jiang
- 262 Oxidative Stress and Apoptosis Mechanism on Damage of L-02 Liver Cells by Tris(1,3-dicholor-2-propyl)phosphate (TDCPP)
Xia Hubin, Chen Chao, Li Hui, Zhang Yunchao, Wang Ping, Zhuang Jinlong, Varenymam Achal, Lu Jun
- 272 Human Health Risk Assessment on Residents' Arsenic Ingestion Through Food in Guangzhou City
Liao Wen, Wu Ye, Wang Guang, Zhao Wenbo, Li Yanjing, Li Kaiming, Chen Zhongying, Ren Xiuwen, Wu Renren
- 281 The Oxidative Damage Mechanism of Plasticizer Diisononyl Phthalate on Reroductive System in Male Mice
Chen Yingying, Ge Shuzhen, Huang Jian, Zhang Ye, Xiang Xianlan, Wu Yang, Yan Biao, Ma Ping
- 288 Effects of Aluminum Chloride on the Movement and Learning and Memory Performance of Zebrafish Larvae in Acidic Water Environment
Zhang Ping, He Kaihong, Chen Jianping, Shang Nan, Niu Qiao, Zhang Qinli
- 296 Toxicity of Composite of Cr(VI) Adsorbed by Magnetite Fe_3O_4 Nanoparticles on HEK293
Li Zhuan, Liu Miao, Chen Minghui, Zhang Zhuqing
- 305 Spatial Distribution and Radiation Evaluation of the Radionuclides in Paddy Soil of the Uranium Tailings Area
Liu Yuanyuan, Zhang Chunyan, Wei Qianglin, Guo Yadan, Gao Bai, Zhou Weibo
- 313 Quantum Toxicological Research is Very Important, Which Should be Paid Attention
Jiang Yunshen, Mo Baoqing