

目次

特别关注

- 1 内分泌干扰物对鱼类跨世代毒性效应及机制的研究进展
赵飞, 杨艳羽, 汝少国, 陈栋, 施雪卿, 魏朋浩
- 17 微囊藻毒素异构体产生的调控因子及其在自然水体中分布的研究进展
顾毓蓉, 程晨, 赵雁雁, 薛庆举, 万翔, 张凯晔, 谢丽强
- 33 海洋中微塑料的老化机理及老化后环境行为研究进展
郭威, 罗雅丹, 李晨光, 陈琳, 杨宇航, 杨翔昊, 李锋民
- 47 氯化石蜡的毒代动力学研究进展
陈双双, 耿柠波, 曹蓉, 高媛, 张海军, 陈吉平
- 59 被动采样技术在水环境暴露监测评估中的应用与挑战
蒋沛瑛, 许宜平, 马梅, 王子健
- 72 雌激素的3D-QSAR模型构建及其预测饲料与猪肉中雌激素对人体内分泌影响的应用
方菁, 申哲民, 袁涛, 张徐祥
- 80 磷酸三(2-丁氧基乙基)酯及其代谢产物在大鼠体内的排泄动力学研究
邓臣, 刘云浪, 胡蓉, 陈建义, 王金玲, 齐秀娟, 申芝芝, 谢林伸, 蒙艳, 朱婷婷
- 87 对羟基苯甲酸丙酯和对羟基苯甲酸丁酯对人和大鼠肝微粒体CYP450酶活性的抑制作用
史丰收, 赵潺, 王聪, 李雅倩, 余梦圆, 郑君, 李萍, 李贺, 商静静, 顾凌郡, 陈云霞, 苏宁
- 96 双酚类化合物污染现状及对生命早期的不良影响
田华, 单立鑫, 崔凯洁, 汝少国
- 112 亚慢性低砷暴露对大鼠肠道及菌群的影响研究
左佩佩, 王国泽, 魏绍峰, 罗鹏
- 122 四环素类抗生素耐药研究进展: 质粒介导的替加环素耐药机制
叶卓幸, 汤燕君, 何璐茜, 白红, 高方舟, 张敏, 刘有胜, 熊倩, 赵建亮, 何良英, 应光国
- 141 卤代有机污染物的组织差异性生物富集研究
江逸野, 曾艳红, 张艳婷, 唐斌, 罗孝俊, 麦碧娟
- 150 稀有鮟鮓脑中KISS/GPR54系统介导MT对性腺发育影响研究
陈越, 杨琼, 王贤珍, 吕晓洁, 荣伟雅, 李宇星, 刘青, 王伟伟, 宋晶, 王宪宗, 刘少贞
- 164 TREM2基因的敲低加重纳米氧化铝导致的神经发育障碍
郭馨岳, 赵锦津, 高晓诚, 张兰, 黄涛, 王艳红, 牛侨, 张勤丽

“环境DNA与生态健康评估”专栏

- 175 eDNA宏条形码监测沉积物原生生物群落多样性
薛棋文, 杨江华, 张丽娟, 张效伟, 雷春生

“新污染物筛查与评估”专栏

- 187 亚太经济合作组织化工对话会进展及我国应对策略研究
赵静, 李仓敏, 王燕飞, 管小东, 林军, 葛海虹
- 197 基于逼近理想解排序的江苏省优先控制毒害有机化学物质筛查研究
王伟霞, 姚焯焯, 赵静, 顾凤琳, 张丹, 刘伟
- 213 典型北方城市河流中抗生素污染特征及风险评价
李清雪, 董天羽, 孙王茹, 刘含雨, 武丽娜, 汪庆
- 230 噬菌酯对典型农田周边水生生态风险评估
郑豪杰, 孙健, 张鲲, 程涵智, 刘沁雨, 曹玲, 尹晓辉

综述

- 243 水生生物毒性试验在环境损害司法鉴定领域的应用与发展
刘军, 李珊, 张雅楠, 王元凤
- 265 微塑料的毒理学研究进展——微塑料对微生物、藻类、鱼类和哺乳动物类的毒理学效应
景美琪, 李绰然, 王隆清, 王天傲, 薛肖玥, 张笑寒, 马永正
- 281 纳米塑料对生物的毒性效应及作用机制研究进展
刘沙沙, 梁绮彤, 陈诺, 杨晓茵
- 291 多溴联苯醚类污染物在水体中的分布、转化和生态毒性研究进展
陈美林, 高雅倩, 郭瑞昕, 刘艳华, 陈建秋
- 302 磷石膏堆存过程中重金属的迁移转化及其生态效应
刘珊, 吴丰辉, 瞿广飞, 赵晨阳, 陈帮金, 杨玉益

- 315 稀土掺杂的上转换纳米材料的生物毒性与其作用机制研究进展
彭微,程娇娇,张凌燕,殷慧,孟颖,罗利霞,李淑荣,孟佩俊

专论

- 323 硫酸铜对关键食物链环节毒性作用的微宇宙模拟研究
彭子乐,王良韬,吴永贵,伍建业
- 333 北京市设施农业土壤微塑料的污染特征及潜在来源
吴亚梅,王育鹏,王康,田佳宇,陈延华,邹国元,徐笠
- 345 儿童玩具中重金属污染及健康风险评价
张杰聪,温云锋,吴晓丹,郑晓波
- 354 南水北调中线总干渠水中酞酸酯类物质含量及风险评价
华江环,郭勇勇,宋高飞,李瑞雯,韩建,杨丽华,周炳升
- 367 场地实际重金属复合污染土壤生态毒性效应定量评价
马喆,王美娥,姜蓉,陈卫平
- 378 异菌脉在油菜植株、土壤和水中的代谢途径及代谢物 3,5-DCA 的毒性研究
汪震,华修德,施海燕,王鸣华
- 386 TLR4/Akt 相关分子在 DMF 暴露小鼠肝损伤中的作用
桑灵丽,王扬眉,李宏慧,肖静
- 395 二氯喹啉酸及其代谢物残留的 QuEChERS-UHPLC/MS/MS 分析及其室内消解动态研究
范金平,张盈,魏进,罗世霞,段婷婷
- 405 黑藻(*Hydrilla verticillat*)在铅、锌胁迫下的代谢组学研究
陈卓,胡芯,唐洪玉
- 417 草甘膦对苦草种子萌发及幼苗生长的影响
沈路遥,张世懿,彭自然,张馨予,何文辉
- 426 不同碳链长度离子液体对模式植物拟南芥和小麦的光合致毒效应
奚豪,李哲,方治国,刘惠君
- 433 北京市密云某私采金矿洞废水对大型溞的急性毒性研究
李珊,王潇逸,刘军,张雅楠,王元凤
- 441 基于 IBR 模型研究磷化工区溪流水体对斑马鱼的毒性效应
代恒美,郭子毓,徐玉艳,张华,潘莎
- 451 大连近岸海域表层海水中典型人工甜味剂的浓度分布及生态风险评估
岳扬,李莉,王炫凯,王侯宇,张玉凤,张倩,刘鹰,曲宝成
- 460 某铀水冶厂周边土壤放射性核素 U 和 Th 分布特征及污染评价
钟可意,王笠成,邵波霖,朱殿梅,胡雨婷,程馨
- 471 石油烃污染土壤中蚯蚓对 PAHs 富集研究
黄盼盼,陶宗鑫,王佳佳,徐晶,欧阳少虎
- 482 氯氰菊酯和马拉硫磷对斑马鱼下丘脑-垂体-性腺轴基因的雌激素联合效应
郭东梅,邱静,钱永忠,徐丽红,徐明

“第七届青年地学论坛”专栏

- 489 市政污水处理厂出水及接纳水体污染和毒性研究进展
黎伟宗,刘源,李慧珍,游静
- 503 微生物吸附去除重金属效率与应用研究综述
李林,艾雯妍,文思颖,苏奇倩,徐其静,刘雪
- 523 三角褐指藻对环丙沙星的去除过程及影响因素
姜现静,吕剑,武君,王建华,张翠
- 533 个人护理品中纳米二氧化钛调查及健康风险评价
师曜,王颖,李焱,郁美枫,董兆敏,范文宏

“第七届全国生态毒理学大会”专栏

- 545 纳米氧化物对耐四环素屎肠球菌的毒性研究及机制初探
高艺凡,毛步云,王艺,程远,袁青彬
- 554 甲氧虫酰肼对家蚕的急慢性毒性效应及生态风险评估
柳新菊,俞瑞鲜,吴声敢,安雪花,吕露,王菲迪,赵洋,赵学平
- 563 鄱阳湖流域袁河水体典型抗生素分布特征及生态风险评价
李佳乐,王瑶,董一慧,王萌,赵齐灵,周永康,丁惠君,尹柳权,曹扬艺,谢居雄,孙占学

CONTENTS

- 1 Transgenerational Toxicity Induced by Endocrine Disrupting Chemicals on Fish and Underlying Mechanisms
Zhao Fei, Yang Yanyu, Ru Shaoguo, Chen Dong, Shi Xueqing, Wei Penghao
- 17 Advances on Regulation Impact Factors and Geographical Distribution of Microcystin Congeners
Gu Yurong, Cheng Chen, Zhao Yanyan, Xue Qingju, Wan Xiang, Zhang Kaiye, Xie Liqiang
- 33 Research Progress on Aging Mechanism and Environmental Behavior of Marine Microplastics
Guo Wei, Luo Yadan, Li Chenguang, Chen Lin, Yang Yuhang, Yang Xianghao, Li Fengmin
- 47 Toxicokinetics of Chlorinated Paraffin: A Review
Chen Shuangshuang, Geng Ningbo, Cao Rong, Gao Yuan, Zhang Haijun, Chen Jiping
- 59 Passive Sampling in Aquatic Exposure Assessment: Applications and Challenges
Jiang Peiyu, Xu Yiping, Ma Mei, Wang Zijian
- 72 Construction of 3D-QSAR Model of Estrogen and Its Effect on Human Endocrine in Pork and Feed
Fang Jing, Shen Zhemin, Yuan Tao, Zhang Xuxiang
- 80 Excretion Kinetics of Tris(2-butoxy)ethyl Phosphate and Its Metabolites in Rats
Deng Chen, Liu Yunlang, Hu Rong, Chen Jianyi, Wang Jinling, Qi Xiujian, Shen Zhizhi, Xie Linshen, Meng Yan, Zhu Tingting
- 87 Inhibitory Effects of Propylparaben and Butylparaben on CYP450 Enzyme Activity in Human and Rat Liver Microsomes
Shi Fengshou, Zhao Chan, Wang Cong, Li Yaqian, Yu Mengyuan, Zheng Jun, Li Ping, Li He, Shang Jingjing, Gu Lingjun, Chen Yunxia, Su Ning
- 96 Pollution Status and Adverse Effects of Bisphenols on Early Life
Tian Hua, Shan Lixin, Cui Kaijie, Ru Shaoguo
- 112 Effects of Subchronic Low-arsenic Exposure on Intestine and Gut Microbiota in Rats
Zuo Peipei, Wang Guoze, Wei Shaofeng, Luo Peng
- 122 Mechanisms of Tetracycline Resistance: Plasmid-Mediated Tigecycline Resistance
Ye Zhuoxing, Tang Yanjun, He Luxi, Bai Hong, Gao Fangzhou, Zhang Min, Liu Yousheng, Xiong Qian, Zhao Jianliang, He Liangying, Ying Guangguo
- 141 Tissue-specific Bioaccumulation of Halogenated Organic Pollutants in Fish
Jiang Yiye, Zeng Yanhong, Zhang Yanting, Tang Bin, Luo Xiaojun, Mai Bixian
- 150 Effect of 17 α -methyltestosterone on Gonad Development Mediated through KISS/GPR54 System in Brain of *Gobiocypris rarus*
Chen Yue, Yang Qiong, Wang Xianzhen, Lv Xiaojie, Rong Weiya, Li Yuxing, Liu Qing, Wang Weiwei, Song Jing, Wang Xianzong, Liu Shaozhen
- 164 Knockdown of TREM2 Gene Aggravates Neural-developmental Disorders Induced by Aluminum Oxide Nanoparticles
Guo Xinyue, Zhao Jinjin, Gao Xiaocheng, Zhang Lan, Huang Tao, Wang Yanhong, Niu Qiao, Zhang Qinli
- 175 Using Environmental DNA Metabarcoding to Monitor Community Diversity of Protist in Sediments
Xue Qiwen, Yang Jianghua, Zhang Lijuan, Zhang Xiaowei, Lei Chunsheng
- 187 Latest Progress on APEC Chemical Dialogue and Countermeasures Study
Zhao Jing, Li Cangmin, Wang Yanfei, Jian Xiaodong, Lin Jun, Ge Haihong
- 197 Screening System for Priority Control of Toxic Organic Chemicals in Jiangsu Province Based on Technique for Order Preference by Similarity to an Ideal Solution
Wang Weixia, Yao Hongye, Zhao Jing, Gu Huanglin, Zhang Dan, Liu Wei
- 213 Pollution Characteristics and Risk Assessment of Antibiotics in Typical Northern Urban Rivers
Li Qingxue, Dong Tianyu, Sun Wangru, Liu Hanyu, Wu Lina, Wang Qing
- 230 Risk Assessment of Azoxystrobin to Aquatic Ecological Systems around Farmland in China
Zheng Haojie, Sun Jian, Zhang Kun, Cheng Hanzhi, Liu Qingyu, Cao Ling, Yin Xiaohui
- 243 Application and Development of Aquatic Toxicity Test in Environmental Forensics
Liu Jun, Li Shan, Zhang Yanan, Wang Yuanfeng
- 265 Toxicological Research Progress of Microplastics: Toxicological Effects of Microplastics on Microorganism, Algae, Fish and Mammal
Jing Meiqi, Li Chوران, Wang Longqing, Wang Tian'ao, Xue Xiaoyue, Zhang Xiaohan, Ma Yongzheng
- 281 Research Progress on Toxic Effects and Mechanisms of Nanoplastics on Organisms
Liu Shasha, Liang Qitong, Chen Nuo, Yang Xiaoyin
- 291 Distribution, Transformation and Ecotoxicity of Polybrominated Diphenyl Ethers in Aquatic Environments: A Review
Chen Meilin, Gao Yaqian, Guo Ruixin, Liu Yanhua, Chen Jianqiu
- 302 Migration and Transformation of Heavy Metals in Phosphogypsum Storage Process and Their Ecological Effect
Liu Shan, Wu Fenghui, Qu Guangfei, Zhao Chenyang, Chen Bangjin, Yang Yuyi

- 315 Research Progress on Biological Toxicity and Its Mechanism of Rare-earth-elements-doped Upconversion Nanoparticles
Peng Wei, Cheng Jiaojiao, Zhang Lingyan, Yin Hui, Meng Ying, Luo Lixia, Li Shurong, Meng Peijun
- 323 Microcosmic Simulation Studies of Toxic Effects of Copper Sulfate on Key Food Chain Links
Peng Zile, Wang Liangtao, Wu Yonggui, Wu Jianye
- 333 Pollution Characteristics and Potential Sources of Microplastics in Facility Agriculture Soil in Beijing
Wu Yamei, Wang Yupeng, Wang Kang, Tian Jiayu, Chen Yanhua, Zou Guoyuan, Xu Li
- 345 Contamination and Health Risk Assessment of Heavy Metals in Toys
Zhang Jiecong, Wen Yunduo, Wu Xiaodan, Zheng Xiaobo
- 354 Levels and Risk Assessment of PAEs in Surface Water in Main Canal of Middle Route of South-to-North Water Diversion Project
Hua Jianghuan, Guo Yongyong, Song Gaofei, Li Ruiwen, Han Jian, Yang Lihua, Zhou Bingsheng
- 367 Quantitative Evaluation of Ecological Toxicity Effect of Real Heavy Metal Combined Pollution in Site Soil
Ma Zhe, Wang Meic, Jiang Rong, Chen Weiping
- 378 Studies on Metabolic Pathways of Iprodione in Rape Plant, Soil, and Water and Toxicity of Metabolite 3,5-DCA
Wang Zhen, Hua Xiude, Shi Haiyan, Wang Minghua
- 386 Role of TLR4/Akt Related Molecules in Liver Injury of Mice Exposed to DMF
Sang Lingli, Wang Yangmei, Li Honghui, Xiao Jing
- 395 Studies on Simultaneous Analysis of Residues and Dissipation Dynamics of Quinclorac and Its Metabolites in Soil by QuEChERS-UHPLC/MS/MS
Fan Jinping, Zhang Ying, Wei Jin, Luo Shixia, Duan Tingting
- 405 Metabolomics Study of *Hydrilla verticillata* under Heavy Metal Stress of Lead and Zinc
Chen Zhuo, Hu Xin, Tang Hongyu
- 417 Effects of Glyphosate on Germination and Growth of *Vallisneria natans*
Shen Luyao, Zhang Shiyi, Peng Ziran, Zhang Xinyu, He Wenhui
- 426 Photosynthetic Toxicity of Ionic Liquids with Varying Alkyl Chains to Model Plants *Arabidopsis* and Wheat
Xi Hao, Li Zhe, Fang Zhiguo, Liu Huijun
- 433 Acute Toxicity of Metallurgical Sewage from a Private Gold Mine in Miyun, Beijing on *Daphnia magna*
Li Shan, Wang Xiaoyi, Liu Jun, Zhang Yanan, Wang Yuanfeng
- 441 Toxicity Effects of Stream Water in Phosphorus Chemical Industrial Area on Zebrafish Based on IBR Model
Dai Hengmei, Guo Ziyu, Xu Yuyan, Zhang Hua, Pan Sha
- 451 Concentration Distribution and Risk Assessment of Typical Artificial Sweeteners in Surface Seawater of Dalian Coastal Area
Yue Yang, Li Li, Wang Xuankai, Wang Houyu, Zhang Yufeng, Zhang Qian, Liu Ying, Qu Baocheng
- 460 Distribution Characteristics and Pollution Evaluation of Soil Radionuclides U and Th around a Uranium Hydrometallurgy Plant
Zhong Keyi, Wang Licheng, Shao Bolin, Zhu Dianmei, Hu Yuting, Cheng Xin
- 471 Enrichment of PAHs by Earthworms in Petroleum Hydrocarbon Contaminated Soil
Huang Panpan, Tao Zongxin, Wang Jiajia, Xu Jing, Ouyang Shaohu
- 482 Combined Estrogen Effects of Cypermethrin and Malathion on Hypothalamic-pituitary-gonad Axis Gene in Zebrafish
Guo Dongmei, Qiu Jing, Qian Yongzhong, Xu Lihong, Xu Ming
- 489 Research Advances in Evaluating Occurrence and Toxicity of Contaminants in Wastewater Treatment Plant Effluents and Receiving Waterways
Li Weizong, Liu Yuan, Li Huizhen, You Jing
- 503 Efficiency and Application of Microbial-sorption Removal of Heavy Metals: A Review
Li Lin, Ai Wenyan, Wen Siying, Su Qiqian, Xu Qijing, Liu Xue
- 523 Removal Process of Ciprofloxacin by *Phaeodactylum tricornutum* and Its Influencing Factors
Jiang Xianjing, Lu Jian, Wu Jun, Wang Jianhua, Zhang Cui
- 533 Titanium Dioxide Nanoparticles in Personal Care Products and Titanium Health Risk Assessment to Adult Consumers
Shi Yao, Wang Ying, Li Yao, Yu Meifeng, Dong Zhaomin, Fan Wenhong
- 545 A Preliminary Exploration for Toxicity and Mechanism of Nano Metal Oxides to Tetracycline Resistant *Enterococcus faecium*
Gao Yifan, Mao Buyun, Wang Yi, Cheng Yuan, Yuan Qingbin
- 554 Acute and Chronic Toxic Effects of Methoxyfenozide on Silkworm and Its Ecological Risk Assessment
Liu Xinju, Yu Ruixian, Wu Shenggan, An Xuehua, Lv Lu, Wang Feidi, Zhao Yang, Zhao Xueping
- 563 Distribution Characteristics and Ecological Risk Assessment of Typical Antibiotics in Yuanhe River of Poyang Lake Basin
Li Jiale, Wang Yao, Dong Yihui, Wang Meng, Zhao Qiling, Zhou Yongkang, Ding Huijun, Yin Liuquan, Cao Yangyi, Xie Juxiong, Sun Zhanxue