



ISSN 1001-6929
CN 11-1827 / X
CODEN HKYAEZ

第36卷 第8期 (Vol.36 No.8)

2023 / 08

环境科学研究

Research of Environmental Sciences

主编
约稿

侯德义 等

塑岩：成因、分布与
微塑料释放特征



0.8>
9 771001 692235

中华人民共和国生态环境部 主管

中国环境科学研究院 主办

☆ 中文核心期刊

☆ 中国科技核心期刊 (CSTPCD)

☆ 《国家哲学社会科学学术期刊数据库》(NSSD) 收录

★ 国际检索: Scopus、CSA: NS、AJ、CABI、ZR、JST、IC、EBSCOhost 等

☆ 中国科学引文数据库 (CSCD) 收录

☆ RCCSE 中国核心学术期刊

目次

第 36 卷 第 8 期 2023 年 8 月

主编约稿

- 塑岩: 成因、分布与微塑料释放特征 王刘炜, 侯德义 (1457)

大气环境

- 京津冀地区典型城市 PM_{2.5} 和 O₃ 污染的关联性特征分析 孙彦坤, 徐 蕾, 杨 婷, 张 聘,
崔延斌, 范 磊, 赵 晶, 危 硕, 呼亚飞, 陈碧璇, 李 亮, 赵有宇, 王富婷, 李弘毅, 李 颖, 牛春霞 (1467)
苏皖鲁豫典型区域臭氧垂直结构及其影响因素分析 王伟月, 张 红, 汪水兵, 洪星园, 王馨琦, 朱承驻 (1477)
山东省植物源挥发性有机物排放特征 赵丹青, 伦小秀, 王 强, 吴 鞠, 王 璇, 冯如帆 (1487)

水环境

- 滇池藻毒素时空分布特征及其与环境因子的相关性分析
罗 婧, 陶 冕, 李 冲, 李涛燕, 王绍艳, 蒋昌李, 程云轩, 段平洲 (1498)
调水背景下南亚热带水库蓝藻水华前后优势种变化特征及其驱动因子分析 白云浩, 黄廷林, 缪威铭 (1508)
木兰溪感潮河段沉积物耗氧速率及其相关影响因素研究
周佳男, 方梦园, 雷啟煮, 侯国庆, 赵天慧, 张思远, 赵晓丽, 汤 智 (1518)
基于鱼类生物完整性的赤水河健康评估研究
潘丽波, 黄雪妍, 刘晶晶, 谢园园, 张 坤, 刘 博, 赵清英, 关 满, 傅 博 (1532)
粤港澳大湾区水环境标准分析与衔接建议 黄宝莹, 潘 磊, 尹倩婷 (1543)
生活污水中苯二氮䓬类药物及其新型策划药分析方法优化及应用
朱 珠, 张苓荣, 赵孟林, 张 璇, 郝芳华, 李喜青, 杜 鹏 (1554)

生态环境

2000—2020年长江经济带碳汇时空演变及影响因素分析………黄汉志，贾俊松，刘淑婷，陈地兰（1564）

土壤与固废

多环芳烃污染土壤热修复预干燥过程中水分与污染物析出特性研究

………周志毅，柴 瑞，黄震威，吴 昊，王进卿，毛伟洋，詹明秀，徐 旭，池作和，焦文涛（1577）

呼伦湖蓝藻对典型退化草原区不同类型土壤性质的影响

………马欢欣，童 仪，焦琰雯，徐梓瑄，王 琪，陈星瑶，王文林，韩睿明，曹秉帅，刘宝贵（1586）

污染场地多相抽提低碳修复布井方案优化模拟研究

………金嘉路，杨逸文，王 震，张婉莹，周 龄，张 峰，李 磊，崔长征（1596）

环境健康

我国生态环境与健康一体防控的若干问题与战略对策

………段小丽，郭 倩，曹瑜函，曹素珍，王贝贝，秦 宁，赵晓丽，吴丰昌（1607）

室内外不同臭氧水平对中国城市居民健康的影响………阮芳芳，彭彦彦，李康玮，段存儒，武照亮（1616）

我国15种典型土壤中菲对白符跳的毒性阈值及其预测模型

………冯献捷，王 冕，韩东锦，侯 红，赵 龙，左晓俊（1625）

环境经济与管理

江苏省征收更高税率环境保护税的影响：基于动态CGE模型………王佳邓，赵玉婷，孙启宏，杨中雅（1634）

信息

《环境科学研究》第六届编委会名单（封二） 征稿启事（封三）



Contents



Vol.36 No.8 August 2023

Editor-in-Chief Invited

Plastistone: Diagenesis, Global Distribution, and Microplastic Generation Characteristics ... WANG Liuwei, HOU Deyi (1457)

Atmospheric Environment

Correlation Characterization of PM_{2.5} and O₃ Pollution in a Typical City in Beijing-Tianjin-Hebei Region

..... SUN Yankun, XU Lei, YANG Ting, ZHANG Pin, CUI Yanbin, MAO Lei, ZHAO Jing, WEI Shuo, HU Yafei, CHEN Bixuan, LI Liang, ZHAO Youyu, WANG Futing, LI Hongyi, LI Ying, NIU Chunxia (1467)

Vertical Structure of Ozone and Its Influencing Factors in the Border Area of Jiangsu, Anhui, Shandong and Henan

Provinces WANG Weiyue, ZHANG Hong, WANG Shuibing, HONG Xingyuan, WANG Xinqi, ZHU Chengzhu (1477)

Emission Characteristics of Biogenic Volatile Organic Compounds in Shandong Province

..... ZHAO Danqing, LUN Xiaoxiu, WANG Qiang, WU Ju, WANG Xuan, FENG Rufan (1487)

Water Environment

Seasonal and Spatial Variations of Microcystins and Their Correlations with Physiochemical and Biological Factors in Dianchi Lake

.... LUO Jing, TAO Mian, LI Chong, LI Taoyan, WANG Shaoyan, JIANG Changli, CHENG Yunxuan, DUAN Pingzhou (1498)

Characteristics of Dominant Species Changes Before and After Cyanobacterial Blooms and Its Driving Factors in a South Subtropical Diversion Reservoir BAI Yunhao, HUANG Tinglin, MIAO Weiming (1508)

Sediment Oxygen Demand and Related Influencing Factors in Mulan River Tidal Reach ZHOU Jianan,

FANG Mengyuan, LEI Qitao, HOU Guoqing, ZHAO Tianhui, ZHANG Siyuan, ZHAO Xiaoli, TANG Zhi (1518)

Chishui River Health Assessment Based on Fish Biotic Integrity Index PAN Libo,

HUANG Xueyan, LIU Jingjing, XIE Yuanyuan, ZHANG Kun, LIU Bo, ZHAO Qingying, GUAN Xiao, FU Bo (1532)

Analysis and Convergence of Water Environment Standards in Guangdong-Hong Kong-Macao Greater Bay Area

..... HUANG Baoying, PAN Lei, YIN Qianting (1543)

Optimization and Application of Analytical Methods for Benzodiazepines and New Drugs in Domestic Wastewater

..... ZHU Zhu, ZHANG Lingrong, ZHAO Menglin, ZHANG Xuan, HAO Fanghua, LI Xiqing, DU Peng (1554)

Ecological Environment

Analysis of Spatial-Temporal Evolution and Influencing Factors of Carbon Sinks in Yangtze River Economic Belt from 2000 to 2020 HUANG Hanzhi, JIA Junsong, LIU Shuteng, CHEN Dilan (1564)

Soil and Solid Waste

- Moisture and Pollutant Precipitation Characteristics during Thermal Remediation and Pre-Drying of Polycyclic Aromatic Hydrocarbon-Contaminated Soil ZHOU Zhiyi, CHAI Rui, HUANG Zhenwei, WU Hao, WANG Jinqing, MAO Weiyang, ZHAN Mingxiu, XU Xu, CHI Zuohe, JIAO Wentao (1577)
- Effects of Cyanobacteria from Hulun Lake on Properties of Different Types of Soils in Typical Degraded Grassland Area MA Huanxin, TONG Yi, JIAO Yanwen, XU Zixuan, WANG Qi, CHEN Xingyao, WANG Wenlin, HAN Ruiming, CAO Bingshuai, LIU Baogui (1586)
- Optimization of Low-Carbon Multi-Phase Extraction Remediation Well Locations in Contaminated Sites by Simulation JIN Jialu, YANG Yiwen, WANG Zhen, ZHANG Wanying, ZHOU Yan, ZHANG Feng, LI Lei, CUI Changzheng (1596)

Environmental Health

- Some Major Issues and Strategic Countermeasures of Integrated Prevention and Control of Ecology, Environment and Health in China DUAN Xiaoli, GUO Qian, CAO Yuhan, CAO Suzhen, WANG Beibei, QIN Ning, ZHAO Xiaoli, WU Fengchang (1607)
- Impact of Different Indoor and Outdoor Ozone Levels on the Health of Urban Residents in China RUAN Fangfang, PENG Yanyan, LI Kangwei, DUAN Cunru, WU Zhaoliang (1616)
- Toxicity Threshold and Prediction Model of Phenanthrene to *Folsomia candida* in 15 Typical Soils in China FENG Xianjie, WANG Mian, HAN Dongjin, HOU Hong, ZHAO Long, ZUO Xiaojun (1625)

Environmental Economy and Management

- Impact of Higher Tax Rate on Environmental Protection in Jiangsu Province: Based on Dynamic CGE Model WANG Jiadeng, ZHAO Yuting, SUN Qihong, YANG Zhongya (1634)

