

## 目 次

### 医疗废物处置管理与技术创新实践

- 医疗废物处理处置污染控制标准解读 ..... 陈 刚,于晓东,岳佳妮,曹云霄,姚芝茂,王 龙( 1 )  
中国环境技术验证评价现状及发展 ..... 陈 扬,冯钦忠,刘俐媛,高 强,冯 煦( 7 )  
我国医疗废物应急处置管理讨论与建议 ..... 程 亮,张 箜,陶 亚,刘双柳( 13 )  
非焚烧技术医疗废物消毒效果检测与评价方法浅析 ..... 孔丽娜,周 娟,武晓娜,李新武( 17 )  
新兴医疗废物消毒处理技术环境技术验证评价方案设计——以摩擦热处理技术为例  
..... 曹云霄,陈伟星,于晓东,裴江涛,纪欣彤,蒋 帅,陈 刚( 24 )  
基于动态旋转作用的医疗废物高温蒸汽消毒处理技术研究 ..... 于晓东,曹云霄,李 辉,梁成山,张广鑫,陈 刚( 30 )  
医疗废物环氧乙烷消毒处理技术验证评价研究——以杭州某医疗废物集中处置中心为例  
..... 冯钦忠,陈 扬,刘俐媛,邹雪辉,孙 颖,高 强,冯 煦( 34 )

### 环境规划与管理

- 农业面源污染治理背景下异质性农户环保行为差异分析——以湖南省衡阳市为例 ..... 龙 云,蒋淑媛,夏 胜( 41 )  
我国村镇供排水设施建设现状、问题及应对思考 ..... 王雪莉,温 禾,张一航,郭 芳,陈 永,王国田( 47 )  
环境领域全氟和多氟类化合物研究的可视化分析——基于 Web of Science 的文献计量学研究 .....  
..... 郭 芬,张海艳,邵 波,张福俊( 54 )

### 环境综合整治

- 基于随机森林的河流总磷预测模型及影响因素分析 ..... 成浩科,沈 菲( 62 )  
钻井固化废弃物表面涂覆工艺的正交实验优化及效果评价 .....  
..... 王永超,黄维安,王晓强,李公让,蓝 强,刘均一,邱正松( 68 )  
微秒脉冲放电在污水灭菌中的理化效应和应用研究综述 ..... 杨 瑾,何正浩,殷 铭( 74 )  
纳塑料与草甘膦对铜绿微囊藻的复合毒性机制 .....  
..... 马新刚,李时畅,孙 逊,谢连科,张国英,臧玉魏,崔相宇,袁宪正,祝凡平( 82 )  
辽宁中部“城市群”环境空气 PM<sub>2.5</sub> 累积速率对比研究 .....  
..... 王 帅,林 宏,刘云霞,张丽辉,赵 帝,侯 乐,王 闯,杜毅明,邵春岩( 91 )  
阿什河干流水环境时空状况分析及治理研究 ..... 蒋本超,宋汉卿,王凤艳,李锦时( 96 )  
基于丰水、枯水期点源、面源水污染特征的水环境容量计算方法——以太湖流域某水系为例 .....  
..... 李冰阳,韩龙喜,陈丽娜( 100 )  
修正高斯扩散模型对机场污染物浓度预测影响 ..... 张 耀,王 湛,NU YU( 106 )  
兰州市道路移动源排放清单及防控政策减排核算 ..... 庞 可,祝禄祺,范建峰,马彩云,潘 峰( 113 )  
苏南地区污水处理厂恶臭气体收集处理现状研究 ..... 徐遵主,张纪文,陆朝阳,金小贤,刘 东,李 明( 118 )

### 城市生态保护

- 常州市河流水质评价及污染特征分析 ..... 熊勇峰,周 刚,徐宪根,白 静,陈振宇,呼婷婷( 123 )  
沈阳冬季 PM<sub>2.5</sub> 中水溶性离子变化特征及来源分析 ..... 卞思思,赵 帝,王维宽,刘 岩,惠 宇,王小娜( 129 )  
COVID-19 爆发前后东营市 AQI 时空特征研究 ..... 崔志浩,李成名,戴昭鑫( 133 )  
济南市典型家具企业 VOCs 排放特征及 O<sub>3</sub> 生成贡献分析 ..... 秦 华,谢建辉,杜天君,张荣荣,闫学军( 138 )  
北方重工业城市大气污染源调查评估与治理对策——以抚顺市为例 ..... 杜连刚( 146 )

### 环境风险防控

- 德普昌达克冰川和中山站抗生素抗性基因及影响因素研究 ..... 张淑红,何 瑞,侯书贵,刘 科,李治国( 151 )  
基于模糊综合评价法的北京永定河水源地生态脆弱性评价 ..... 张宪宇,郝晗彤,杨文杰( 159 )  
表层沉积物中磷释放对水体水质影响 ..... 郭晨辉,刘利军,孙晓杰,李 磊,刘剑东,李颖异( 164 )  
不同含油污泥处理工艺的生命周期评价 ..... 姜 雪,高庆国,章媛媛,俞 音( 171 )

栏目主编:葛察忠

编辑部主任:岳佳妮

责任编辑:李宁江,刘云霞,秦昌波,田仁生,靳 炜

英文编辑:肖 峰,曹云霄

## CONTENTS

Interpretation of standard for pollution control on medical waste treatment and disposal ..... CHEN Gang, YU Xiaodong, YUE Jiani, CAO Yunxiao, YAO Zhimao, WANG Long ( 1 )	( 1 )
Current status and development of environmental technology verification in China ..... CHEN Yang, FENG Qinzong, LIU Liyuan, GAO Qiang, FENG Xu ( 7 )	( 7 )
Discussion and suggestion on emergency management of medical waste disposal in China ..... CHENG Liang, ZHANG Zhen, TAO Ya, LIU Shuangliu ( 13 )	( 13 )
Analysis of detecting and evaluating the disinfection effect of non-incineration on medical waste ..... KONG Lina, ZHOU Juan, WU Xiaona, LI Xinwu ( 17 )	( 17 )
Design of environmental technology verification for novel medical waste disinfection technology ——A case study of a friction heat treatment technology ..... CAO Yunxiao, CHEN Weixing, YU Xiaodong, PEI Jiangtao, JI Xintong, JIANG Shuai, CHEN Gang ( 24 )	( 24 )
Study on steam disinfection technology based on dynamic rotation for medical waste ..... YU Xiaodong, CAO Yunxiao, LI Hui, LIANG Chengshan, ZHANG Guangxin, CHEN Gang ( 30 )	( 30 )
Study on environmental technology verification of ethylene oxide disinfection technology on medical waste——A case study of a medical waste centralized disposal center in Hangzhou ..... FENG Qinzong, CHEN Yang, LIU Liyuan, ZOU Xuehui, SUN Ying, GAO Qiang, FENG Xu ( 34 )	( 34 )
Analysis of environmental behavior difference of heterogeneous farmers against the background of agricultural non-point pollution governance ——Taking Hengyang city of Hunan province as an example ..... LONG Yun, JIANG Shuyuan, XIA Sheng ( 41 )	( 41 )
Current situation, problems and countermeasures of water supply and drainage facilities construction in villages and towns in China ..... WANG Xueli, WEN He, ZHANG Yihang, GUO Fang, CHEN Yong, WANG Guotian ( 47 )	( 47 )
Visual analysis of perfluoroalkyl and polyfluoroalkyl substances research in environment ——A bibliometric analysis based on Web of science ..... GUO Fen, ZHANG Haiyan, SHAO Bo, ZHANG Fujun ( 54 )	( 54 )
Prediction model and influencing factors of total phosphorus concentration in river based on random forest method ..... CHENG Haoke, SHEN Fei ( 62 )	( 62 )
Orthogonal experiment optimization and effect evaluation of surface coating on solidified drilling waste materials ..... WANG Yongchao, HUANG Weian, WANG Xiaoqiang, LI Gongrang, LAN Qiang, LIU Junyi, QIU Zhengsong ( 68 )	( 68 )
Review of physicochemical effect and application of microsecond pulse discharge in sewage sterilization ..... YANG Jin, HE Zhenghao, YIN Ming ( 74 )	( 74 )
Mechanism of the joint toxicity of nanoplastics and glyphosate on <i>Microcystis aeruginosa</i> ..... MA Xingang, LI Shichang, SUN Xun, XIE Lianke, ZHANG Guoying, ZANG Yuwei, CUI Xiangyu, YUAN Xianzheng, ZHU Fanping ( 82 )	( 82 )
Study on accumulation rate of PM <sub>2.5</sub> in urban agglomeration of central Liaoning province ..... WANG Shuai, LIN Hong, LIU Yunxia, ZHANG Lihui, ZHAO Di, HOU Le, WANG Chuang, DU Yiming, SHAO Chunyan ( 91 )	( 91 )
Research on temporal-spatial status and treatment countermeasures of water environmental quality of Ashi River mainstream ..... JIANG Benchao, SONG Hanqing, WANG Fengyan, LI Jinshi ( 96 )	( 96 )
A calculation method of water environmental capacity based on water pollution characteristics of point and non-point sources in abundant and dry season ——A case study of a river system in Taihu Basin ..... LI Bingyang, HAN Longxi, CHEN Lina ( 100 )	( 100 )
Influence of modified Gaussian diffusion model on airport pollutant concentration forecast ..... ZHANG Yao, WANG Zhan, NU YU ( 106 )	( 106 )
On-road mobile source emission inventory and emission reduction accounting of control policies in Lanzhou ..... PANG Ke, ZHU Luqi, FAN Jianfeng, MA Caiyun, PAN Feng ( 113 )	( 113 )
Research on collection and treatment of odor gas from sewage treatment plants in Southern Jiangsu ..... XU Zunzhu, ZHANG Jiwen, LU Zhaoyang, JIN Xiaoxian, LIU Dong, LI Ming ( 118 )	( 118 )
Assessment of river water quality and analysis of pollution characteristics in Changzhou City ..... XIONG Yongfeng, ZHOU Gang, XU Xiangen, BAI Jing, CHEN Zhenyu, HU Tingting ( 123 )	( 123 )
Variation characteristics and source analysis of water-soluble ions in PM <sub>2.5</sub> during winter in Shenyang ..... BIAN Sisi, ZHAO Di, WANG Weikuan, LIU Yan, HUI Yu, WANG Xiaona ( 129 )	( 129 )
Spatio-temporal characteristics of AQI in Dongying city before and after COVID-19 outbreak ..... CUI Zhihao, LI Chengming, DAI Zhaoxin ( 133 )	( 133 )
Analysis on VOCs emission characteristics and ozone generation contribution of typical furniture enterprises in Jinan ..... QIN Hua, XIE Jianhui, DU Tinanjun, ZHANG Rongrong, YAN Xuejun ( 138 )	( 138 )
Investigation and assessment of air pollution sources and treatment countermeasures in northern heavy industrial cities of China ——Taking Fushun as an example ..... DU Liangang ( 146 )	( 146 )
Antibiotic resistance genes and their influencing factors in Depuchangdake Glacier and Zhongshan Station ..... ZHANG Shuhong, HE Rui, HOU Shugui, LIU Ke, LI Zhiguo ( 151 )	( 151 )
Assessment of ecological vulnerability of water source in Yongding River based on fuzzy comprehensive evaluation method ..... ZHANG Xianyu, QIE Hantong, YANG Wenjie ( 159 )	( 159 )
The influence of phosphorus release from surface sediments on water quality ..... GUO Chenhui, LIU Lijun, SUN Xiaojie, LI Lei, LIU Jiandong, LI Yingyi ( 164 )	( 164 )
Life cycle assessment of different treatment processes for oily sludge ..... JIANG Xue, GAO Qingguo, ZHANG Yuanyuan, YU Yin ( 171 )	( 171 )