

- ◆ 全国中文核心期刊
- ◆ 中国科学引文数据库（核心库）
- ◆ 中文科技期刊数据库收录期刊
- ◆ 中国期刊全文数据库全文收录期刊
- ◆ 中国生物医学文献数据库（CBM）
- ◆ 中国学术期刊综合评价数据库统计源期刊
- ◆ 中国科技论文统计源期刊（中国科技核心期刊）
- ◆ 万方数据—数字化期刊群（中国核心期刊遴选数据库）

- ◆ RCCSE中国核心学术期刊
- ◆ 美国《艾博思科数据库》（E）
- ◆ 美国化学文摘（CA）收录期刊
- ◆ 美国乌利希期刊指南（Ulrich PD）收录期刊
- ◆ 美国《剑桥科学文摘（自然科学）》（CSAI）收录期刊
- ◆ 日本科学技术振兴机构中国文献数据库（JST）收录期刊
- ◆ 英国国际农业与生物科学研究中心数据库（CABI）收录期刊



环境科学与技术

Huanjing Kexue yu Jishu

ISSN1003—6504
Vol.44 No.4
2021



Environmental Science & Technology

ISSN 1003-6504



湖北省生态环境厅 主管
湖北省环境科学研究院 主办

目 次

反硝化生物滤池出水SMP对Cu²⁺的螯合特性
..... 周雨, 姜芳媛, 石先阳(1)

复合共基质对菌群脱色性能及群落结构的影响
..... 刘娜, 秦祎婷, 吴根英, 余蕊, 张悦, 汪波, 谢学辉(9)

敌敌畏对玉米秸秆产甲烷潜力影响研究
..... 雷梦林, 黄锐, 宋云杰, 杜冬云(16)

N、P添加对亚热带森林土壤重金属活性的影响
..... 周曼, 徐燕, 赵玉皓, 鲁顺保, 朱茜, 张艳杰(23)

氮素输入对沼泽湿地碳固定和周转的影响
..... 张洛梓, 陈清(28)

植物根际降解土壤多氯联苯机理研究进展
..... 王涛, 吴启美(36)

土壤环境中微塑料污染研究进展及展望
..... 刘雅倩, 马菁, 牟键坤, 任文杰, 刘金雨, 李佳馨, 刘芯贝, 王莹(45)

新型短程反硝化耦合厌氧氨氧化工艺研究进展
..... 陈俊江, 张星星, 王超超, 杨智秋, 吴鹏(54)

磺胺类药物在水中的分布及去除技术研究进展
..... 朱珊珊, 冯传哲, 黄辉, 张徐祥, 任洪强(64)

不同配比基质层的雨水径流滞蓄截污效益研究
..... 徐晨, 刘早红, 蔡官军, 詹健(72)

长沙市冬季重污染过程PM_{2.5}污染特征和潜在源分析
..... 彭康, 侯美羽, 罗达通, 宋云飞, 徐彬, 尤翔宇, 李密(80)

芜湖市臭氧污染特征及气象成因分析
..... 王文婧, 黄凡, 李峻, 张东, 查书平(89)

鞍山市春秋季节PM_{2.5}中碳组分特征及来源
..... 林宇, 姬亚芹, 赵静琦, 林孜, 国纪良, 马妍, 王伟(97)

长江中游赤壁段农业用地多环芳烃来源解析
..... 孙岳宏, 王语嫣, 刘冲, 张雪莹, 陈朝娟, 薛建涛(104)

金华市富硒区表土重金属污染的磁学响应
..... 董颖颖, 王博, 王钊, 黄河(112)

庆大霉素降解菌的筛选及效果验证	李永杰, 卜文静, 张会敏, 王岩(125)
原位化学还原技术修复铬污染土壤及其工程应用	邱沙, 宋景鹏, 陈志国, 白鹤, 曹文庆, 刘艺芸(131)
复合螯合剂对铺地竹铅富集及土壤环境的影响	陈雅慧, 杨轶雄, 李宁锋, 许敏, 廖家蓉, 阳昱焱, 何仟怡, 江明艳(140)
生态恢复措施提升高寒沙化草地的固碳效应	郎山鑫, 胡嗣佳, 李梦, 钱虹宇, 蒲玉琳, 张世熔, 李婷, 贾永霞(149)
好氧反硝化SBR工艺启动研究	吴沛, 叶峻宏, 顾鑫, 朱继涛, 张凯, 冷俊彤, 王子婕(158)
腐朽木为填料的反硝化滤池特性研究	樊毅, 胡细全, 明佳齐(165)
人工湿地-微生物燃料电池耦合系统构造条件优化	樊志宇, 姜松鹤, 朴文华, 金明姬(171)
苦草及其附生生物膜对水体非的去除效果研究	李锐, 陈明茹, 黎明, 黄应平, 田海林, 席颖(177)
华南大型深水水库浮游植物群落特征及营养状态评价	张辉, 彭宇琼, 邹贤妮, 张婷婷, 巫楚, 乔永民, 杨洪允(186)
长江重庆段鲫鱼中邻苯二甲酸酯的残留特征	石运刚, 刘嘉烈, 唐娜, 李洁, 秦瑞欣, 汤送雄, 郑晶(195)
地下水-土壤系统中砷含量及健康风险评价	邓雯文, 罗艳丽, 王翔, 刘坤(204)
青海省“三生用地”时空演化特征及其碳排放效应	王剑, 关士钦, 严维斌, 焦贝贝(212)
基于GIS的黄河流域陆地生态系统生态敏感性评价	李元征, 冯智志, 李立, 安迪, 王文静, 柳敏(219)
乌鲁木齐市生态系统服务价值时空演变研究	杨振民, 刘新平(226)
《环境科学与技术》编辑部关于不法分子冒用《环境科学与技术》编辑部名义征稿欺诈的郑重声明	封三

CONTENTS

Metal Chelating Mechanism of Cu²⁺ by SMP of Denitrifying Biological Filters.....
.....ZHOU Yu, JIANG Fangyuan, SHI Xianyang(1)

Effect of Compound Co-substrates on Decolorization Performance and Community Structure of Bacteria Flora.....
.....LIU Na, QIN Yiting, WU Genying, YU Rui, ZHANG Yue, WANG Bo, XIE Xuehui(9)

Study on the Effect of Dichlorvos on the Potential of Methane Production by Anaerobic Fermentation of Corn Stalks.....
.....LEI Menglin, HUANG Rui, SONG Yunjie, DU Dongyun(16)

Analysis of the Activities of Heavy Metals in Forest Soil Under N and P Addition.....
.....ZHOU Man, XU Yan, ZHAO Yuhao, LU Shunbao, ZHU Xi, ZHANG Yanjie(23)

Effects of Nitrogen Input on Carbon Fixation and Turnover in Swamp Wetlands.....ZHANG Luozi, CHEN Qing(28)

Research Progress on the Mechanism of Plant Rhizosphere Degradation of Soil Polychlorinated Biphenyls.....
.....WANG Tao, WU Qimei(36)

Research Progress and Prospect of Microplastic Pollution in Soil Environment.....
.....LIU Yaqian, MA Jing, MOU Jiankun, REN Wenjie, LIU Jinyu, LI Jiaxin, LIU Xinbei, WANG Ying(45)

Research Advances of Novel Partial Denitrification Coupled with Anammox: a Review.....
.....CHEN Junjiang, ZHANG Xingxing, WANG Chaochao, YANG Zhiqiu, WU Peng(54)

Research Progress in the Distribution of Sulfonamides in Water and Their Removal Technologies.....
.....ZHU Shanshan, FENG Chuanzhe, HUANG Hui, ZHANG Xuxiang, REN Hongqiang(64)

Study on the Rainfall Retention and Pollution Interception Effect of Substrate Layer with Different Ratios.....
.....XU Chen, LIU Zaohong, CAI Guanjun, ZHAN Jian(72)

Analysis of PM_{2.5} Pollution Characteristics and Potential Sources During Heavy Pollution in Changsha in Winter.....
.....PENG Kang, HOU Meiyu, LUO Datong, SONG Yunfei, XU Bin, YOU Xiangyu, LI Mi(80)

Characteristics of Ozone Pollution and Analysis of Meteorological Causes in Wuhu City.....
.....WANG Wenjing, HUANG Fan, LI Jun, ZHANG Dong, ZHA Shuping(89)

Characteristics and Source Apportionment of Carbon in PM_{2.5} During Spring-Autumn in Anshan.....
.....LIN Yu, JI Yaqin, ZHAO Jingqi, LIN Zi, GUO Jiliang, MA Yan, WANG Wei(97)

Distribution and Source Apportionment of Polycyclic Aromatic Hydrocarbons in Different Agricultural Lands in Chibi along the
Middle Reaches of Yangtze River.....
.....SUN Yuehong, WANG Yuyan, LIU Chong, ZHANG Xueying, CHEN Chaojuan, XUE Jiantao(104)

Characteristics of Heavy Metal Pollution in Surface Soil and Magnetic Response in Selenium-rich Area of Jinhua·····	
·····DONG Yingying, WANG Bo, WANG Yi, HUANG He(112)	
Screening of Gentamicin-Degrading Bacteria and the Verification of Their Effect·····	
·····LI Yongjie, BU Wenjing, ZHANG Huimin, WANG Yan(125)	
Remediation of Chromium Contaminated Soil by <i>in situ</i> Chemical Reduction Technology and Its Engineering Application·····	
·····QIU Sha, SONG Jingpeng, CHEN Zhiguo, BAI He, CAO Wenqing, LIU Yiyun(131)	
Effect of Compound Chelating Agent on the Accumulation of Pb in <i>Sasa argenteostriata</i> E.G.Camus and Soil Environment·····	
CHEN Yahui, YANG Yixiong, LI Ningfeng, XU Min, LIAO Jiarong, YANG Yuyao, HE Qianyi, JIANG Mingyan(140)	
Ecological Restoration Measures Improved Carbon Sequestration of Desertification Grassland Ecosystem in Alpine Area·····	
·····LANG Shanxin, HU Sijia, LI Meng, QIAN Hongyu, PU Yulin, ZHANG Shirong, LI Ting, JIA Yongxia(149)	
Start-up of Aerobic Denitrification Sequencing Batch Reactor Process·····	
·····WU Pei, YE Junhong, GU Xin, ZHU Jitao, ZHANG Kai, LENG Juntong, WANG Zijie(158)	
Study on Characteristics of Denitrification Filter with Decayed Wood as Filler·····	
·····FAN Yi, HU Xiquan, MING Jiaqi(165)	
Optimization of Construction Conditions by CW-MFC·····	
·····FAN Zhiyu, JIANG Songhe, PIAO Wenhua, JIN Mingji(171)	
Removal of Phenanthrene from Water by <i>Vallisneria</i> and Its Attached Biofilm·····	
·····LI Kun, CHEN Mingru, LI Ming, HUANG Yingping, TIAN Hailin, XI Ying(177)	
Phytoplankton Community Structure and Trophic Status Evaluation of Large Reservoir in Southern China·····	
ZHANG Hui, PENG Yuqiong, ZOU Xianni, ZHANG Tingting, WU Chu, QIAO Yongmin, YANG Hongyun(186)	
Residue Characteristics of Phthalate Esters in Crucian Carps of Yangtze River System in Chongqing City·····	
·····SHI Yungang, LIU Jialie, TANG Na, LI Jie, QIN Ruixin, TANG Songxiong, ZHENG Jing(195)	
Arsenic Content and Health Risk Assessment in Groundwater-soil System·····	
·····DENG Wenwen, LUO Yanli, WANG Xiang, LIU Kun(204)	
Spatial-temporal Evolution Characteristics and Carbon Emission Effects of “Three-Generation Land” in Qinghai Province·····	
·····WANG Jian, GUAN Shiqin, YAN Weibin, JIAO Beibei(212)	
Assessment of Ecological Sensitivity of Terrestrial Ecosystem in the Yellow River Basin Based on GIS·····	
·····LI Yuanzheng, FENG Zhizhi, LI Li, AN Di, WANG Wenjing, LIU Min(219)	
Research on Ecosystem Service Value and Spatial Evolution in Urumqi City·····	
·····YANG Zhenmin, LIU Xinping(226)	

总体国家安全观

国安 家安 天下安

