



- ★ 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34卷 第7期 2021年7月

国家水体污染控制与治理科技重大专项流域水质目标管理技术及应用专题

长江经济带典型区域水质目标管理集成技术研究及应用

..... 何斐，李维新，马秋霞，徐斌，晁建颖，刘庄，庄巍 (1523)

我国水环境风险管理进展、挑战与战略对策研究

..... 符志友，张衍燊，冯承莲，郭昌胜，游静，孙宇巍，刘新妹，吴丰昌 (1532)

浑太河流域不同水生态功能区环境要素的分布特征及其与土地利用之间的关系

..... 贾晓波，赵茜，郝韵，张新飞，林佳宁，段平洲，张远，王圣瑞 (1542)

人体健康水质基准特征参数研究及应用

..... 王晓南，崔亮，李霏，李雯雯，陈金，高祥云，范博，刘征涛 (1553)

城镇污水处理厂出水排放限值分级及提标成本研究

..... 蔡木林，卢延娜，刘琰，赵丽娜，杨占红，魏玉霞，王海燕 (1562)

农药制造业产排污系数核算技术体系框架构建..... 范文凯，连晓慧，施玛丽，郭欣妍，王娜 (1569)

大气环境

我国臭氧污染形势分析及成因初探..... 姜华，常宏咪 (1576)

大气环境容量理论的再思考和总量控制..... 孟凡，李时蓓 (1583)

基于传感器技术的渭南市道路环境颗粒物污染特征及影响因素研究

..... 任建宁，高健，秦孝良，马彤，司书春，郭英哲，倪登峰 (1592)

基于高时空辨识度实时数据的重庆二环内外区域车流特征差异分析

..... 刘亚飞，赵永明，李丽，康清蓉，黄文峰，刘永红 (1602)

珠海市降水化学与沉降特征..... 王国祯，刘偲嘉，于兴娜 (1612)

葡萄树基活性炭的制备及其 CO₂ 吸附特性

..... 吐尔逊·吐尔洪，苏比努尔·吾麦尔江，阿不都热依木·卡德尔，赛达尔·帕尔哈提 (1621)

水环境

- 河流微塑料入海通量研究进展..... 荣佳辉，牛学锐，韩美，倪娟 (1630)
地下水氯代烃污染修复技术研究进展
..... 任加国，邹普闻，徐祥健，夏甫，韩旭，尚长健，生贺，杨昱，姜永海 (1641)
岷江成都段水生态健康评价研究..... 欧阳莉莉，韩迁，何鑫，贾滨洋 (1654)
奎屯河流域平原区地下水水化学特征及成因分析..... 张福初，吴彬，高凡，杜明亮，徐连统 (1663)
城市污水中新兴微量有机污染物控制目标与再生处理技术
..... 王文龙，吴乾元，杜烨，黄南，陆韻，魏东斌，胡洪营 (1672)
酸-低热联合处理对剩余污泥脱水性能的影响
..... 王坤，钱洁，唐玉朝，黄显怀，伍昌年，张倩倩，袁文晨，牟为刚 (1679)
BiOAc/BiOX(X=Cl, Br) 复合材料的制备及其对混合染料的去除
..... 张慧，刘海津，陈敏，王冰杰，张亚昆，彭建彪，蒋凯 (1687)

生态环境

- 黄河流域生态质量时空变化分析..... 计伟，刘海江，高吉喜，马欢，宋婷，高艳妮，冯朝阳 (1700)
金沙江下游向家坝水库不同出库流量对四大家鱼生境面积影响的定量分析
..... 戴凌全，王煜，戴会超，刘海波，郭家力，汤正阳，蔡卓森 (1710)
贵州省河谷型村镇建设中外来植物的入侵风险评估
..... 王楠，吕锡斌，李辉，杨帆，马伟波，王和玉，赵立君，田美荣，李海东，王莉 (1719)
不同生育期转基因抗虫棉根际土壤细菌群落特征..... 王甜甜，闫冰，陈彦君，关潇，李俊生 (1728)

土壤与固废

- 不同土地利用方式下土壤腐殖质作为胞外电子穿梭体的持续能力分析
..... 余红，范萍，檀文炳，张颖 (1737)
老化前后聚乳酸和聚乙烯微塑料对抗生素的吸附解吸行为
..... 范秀磊，甘容，谢雅，刘加强，李莹，刘强，侯俊 (1747)
污泥好氧堆肥对PAHs的处理效果和抗生素及抗性基因消解效果
..... 孙伟，匡科，严兴，李碧清，雷芳，王双，肖先念 (1757)

环境经济与管理

- 基于DEA和SBM-Undesirable模型的山东省污水处理效率研究..... 曹嘉琪，张英奎，徐晓萌，房柏莹 (1764)

信息

- 庆祝中国共产党成立100周年宣传内容（封二） 《环境科学研究》第五届编委会名单（封三）



Contents

Vol.34 No.7 July 2021

SERIES ON WATER QUALITY TARGET MANAGEMENT TECHNOLOGY AND APPLICATION IN BASIN OF NATIONAL MAJOR SCIENCE AND TECHNOLOGY PROGRAM FOR WATER POLLUTION CONTROL AND TREATMENT OF CHINA

- Research and Application of Integrated Technology of Water Quality Target Management in Typical Areas of Yangtze River Economic Belt..... HE Fei, LI Weixin, MA Qiuxia, XU Bin, CHAO Jianying, LIU Zhuang, ZHUANG Wei (1523)
- Progress, Challenge and Strategic Countermeasures of Chinese Pollution Risk Management of Water Environment FU Zhiyou, ZHANG Yanshen, FENG Chenglian, GUO Changsheng, YOU Jing, SUN Yuwei, LIU Xinmei, WU Fengchang (1532)
- Spatial Distribution Characteristics of Environmental Variables and Response to Land Use Patterns in Different Aquatic Ecological Functional Regions of Hun-Tai River Basin..... JIA Xiaobo, ZHAO Qian, HAO Yun, ZHANG Xinfei, LIN Jianing, DUAN Pingzhou, ZHANG Yuan, WANG Shengrui (1542)
- Study and Recommendation on Characteristic Parameters of the Water Quality Criteria for the Protection of Human Health WANG Xiaonan, CUI Liang, LI Ji, LI Wenwen, CHEN Jin, GAO Xiangyun, FAN Bo, LIU Zhengtao (1553)
- Classification of Effluent Discharge Limits of Municipal Sewage Treatment Plant and Cost of Upgrading Standard CAI Mulin, LU Yanna, LIU Yan, ZHAO Lina, YANG Zhanhong, WEI Yuxia, WANG Haiyan (1562)
- Construction of Technical Accounting System Framework of Pollutant Generation and Discharge Coefficient: Case of Pesticide Manufacturing Industry..... YUAN Wenkai, ZE Xiaohui, SHI Mali, GUO Xinyan, WANG Na (1569)

ATMOSPHERIC ENVIRONMENT

- Analysis of China's Ozone Pollution Situation, Preliminary Investigation of Causes and Prevention and Control Recommendations..... JIANG Hua, CHANG Hongmi (1576)
- Revisiting Atmospheric Environmental Capacity Theory and Emission Cap..... MENG Fan, LI Shibei (1583)
- Pollution Characteristics and Its Impact Factors of Particulate Matter in Street Canyon of Weinan Based on PM Sensor REN Jianning, GAO Jian, QIN Xiaoliang, MA Tong, SI Shuchun, GUO Yingzhe, NI Dengfeng (1592)
- Temporal-Spatial Distribution Characteristics of Traffic Volume and Technical Level in Chongqing LIU Yafei, ZHAO Yongming, LI Li, KANG Qingrong, HUANG Wenfeng, LIU Yonghong (1602)
- Characteristics of Precipitation Chemistry and Wet Deposition in Zhuhai, China WANG Guozhen, LIU Sijia, YU Xingna (1612)
- Preparation of Grape Tree Based Activated Carbon and Its CO₂ Adsorption Capacity TUERXUN Tuerhong, SUBINUER Wumaierjiang, ABUDOUREYIMU Kadeer, SAIDAER Paerhati (1621)

WATER ENVIRONMENT

- Global River Microplastics Flux into the Sea: a Review..... RONG Jiahui, NIU Xuerui, HAN Mei, NI Juan (1630)

Contents

- Advances in Remediation Technology for Chlorinated Hydrocarbons Contamination in Groundwater.....REN Jiaguo,
GAO Puchuang, XU Xiangjian, XIA Fu, HAN Xu, SHANG Changjian, SHENG He, YANG Yu, JIANG Yonghai (1641)
Health Assessment of Min River in Chengdu Section OUYANG Lili, HAN Qian, HE Xin, JIA Binyang (1654)
Hydrochemical Characterization and Cause of Groundwater in Plain Area of Kuitun River Basin
..... ZHANG Fuchu, WU Bin, GAO Fan, DU Mingliang, XU Liantong (1663)
Objective and Treatment Technology of Control of Emerging Trace Organic Contaminants in Municipal Wastewater
Reclamation..... WANG Wenlong, WU Qianyuan, DU Ye, HUANG Nan, LU Yun, WEI Dongbin, HU Hongying (1672)
Effect of Acid-Heat Combined Treatment on Residual Sludge Dewatering at Low TemperatureWANG Kun,
QIAN Jie, TANG Yuchao, HUANG Xianhuai, WU Changnian, ZHANG Qianqian, YUAN Wenchen, MU Weigang (1679)
Synthesis of BiOAc/BiOX (X=Cl, Br) Composites for Removal of Mixed Dyes
..... ZHANG Hui, LIU Haijin, CHEN Min, WANG Bingjie, ZHANG Yakun, PENG Jianbiao, JIANG Kai (1687)

ECOLOGICAL ENVIRONMENT

- Spatial-Temporal Variations of Ecological Quality in the Yellow River Basin
..... JI Wei, LIU Haijiang, GAO Jixi, MA Huan, SONG Ting, GAO Yanni, FENG Chaoyang (1700)
Effect of Different Release from Xiangjiaba Reservoir in the Lower Reaches of Jinsha River on Habitat Area of Four
Major Chinese Carps
..... DAI Lingquan, WANG Yu, DAI Huichao, LIU Haibo, GUO Jiali, TANG Zhengyang, CAI Zhuosen (1710)
Invasion Risk Assessment of Alien Plants in Valley-Type Villages and Towns in Guizhou Province.....WANG Nan,
LÜ Xibin, LI Hui, YANG Fan, MA Weibo, WANG Heyu, ZHAO Lijun, TIAN Meirong, LI Haidong, WANG Li (1719)
Characteristics of Bacterial Community of Rhizosphere Soil of Transgenic Insect-Resistant Cotton at Different Growth
Stages..... WANG Tiantian, YAN Bing, CHEN Yanjun, GUAN Xiao, LI Junsheng (1728)

SOIL AND SOLID WASTE

- Sustainability of Soil Humic Substances as Extracellular Electron Shuttle in Different Types of Land Use
..... YU Hong, FAN Ping, TAN Wenbing, ZHANG Ying (1737)
Adsorption and Desorption Behavior of Antibiotics on Polylactic Acid and Polyethylene Microplastics before and after
Aging..... FAN Xiulei, GAN Rong, XIE Ya, LIU Jiaqiang, LI Ying, LIU Qiang, HOU Jun (1747)
Sludge Aerobic Composting to Treat PAHs, Antibiotics and Resistance Genes
..... SUN Wei, KUANG Ke, YAN Xing, LI Biqing, LEI Fang, WANG Shuang, XIAO Xiannian (1757)

ENVIRONMENTAL ECONOMY AND MANAGEMENT

- Efficiency of Sewage Treatment in Shandong Province Based on DEA and SBM-Undesirable Model
..... CAO Jiaqi, ZHANG Yingkui, XU Xiaomeng, FANG Baiying (1764)

