

目次

降碳减污

- 基于 DMSP-OLS 与 NPP-VIIRS 整合数据的京津冀城市群碳排放时空演变特征 李云燕, 盛清, 代建 (447)
- 粤港澳大湾区温室气体和大气污染物协同控制现状分析 刘海艳, 于会彬, 王志刚 (455)
- 基于文献计量分析的碳中和研究进展 张楠, 吕连宏, 王斯一, 赵明轩, 白梓函, 罗宏 (464)

大气/废气污染控制与管理

- 岭南亚热带森林冠层大气挥发性有机物污染特征及区域人为源的影响 贾天蛟, 葛艳丽, 刘奔, 孙嘉胤, 吴雯璐, 叶建淮, 吴晟, 黎永杰, 傅宗玫, 陈琦 (473)
- 天山北坡区域大气污染特征及冬季重污染成因分析——以石河子市为例 杨欣, 何友江, 廉涵阳, 赵好希, 陈义珍, 杨小阳, 李富强, 彭玉杰, 李维军 (483)
- 天津工业区春夏季 VOCs 污染特征及精细化来源解析 李丛舒, 刘永全, 刘欢, 刘金玉, 程绍玲, 降升平 (491)
- 徐州市供暖期空气污染特征及来源分析 冯春莉, 饶永才, 孟庆江, 李辉, 邓国庆, 孙瑞 (501)
- 基于企业用电数据的大气污染防治工作研究进展 陈建华, 李政, 刘翰青, 高健, 杨艳, 竹双 (510)
- 废铅膏熔炼再生烟气处理设施事故下大气污染的不确定性分析 邱盼盼, 徐亚, 能昌信, 刘玉强, 董路, 林汀, 张鲁玉 (517)
- 铜锰型催化剂对低浓度乙醇的催化燃烧性能 杨曦怒, 罗兰妮, 周敬懿, 刘建英, 何俊良, 卓磊, 黎云, 于海晨 (527)
- 基于 SCR 脱硝催化剂质量评判下的排序优化及效益分析 黄奎, 何姗姗, 刘海秋 (534)

流域/区域保护与修复

- 近 60 年滇池水生态系统演替及驱动因子 蒋尖尖, 胡文, 叶春, 宋迪, 王志芸, 李春华, 李杰, 唐诚 (541)
- 我国海岸建筑退缩线研究进展、问题与对策 侯利萍, 何萍, 彭勃, 王德旺, 徐杰, 李代魁, 雷坤 (552)
- 基于大型底栖动物生物完整性的流域水生态健康评价——以辽河流域为例 刘思思, 尚光霞, 高欣, 孔维静, 夏会娟, 丁森 (559)
- EwE 模型在水生态系统中的应用研究及长潭水库案例分析 石展耀, 张靖天, 霍守亮 (567)
- 长三角一体化区域开发强度与生境质量协调状况及演化规律探析 张乐勤, 王雷 (578)
- 我国地表水和沉积物 PPCPs 赋存与交互迁移影响因素 田永静, 武宇圣, 黄天寅, 陈书琴, 张家根, 庞燕 (585)
- 呼伦湖水体溶解性有机物荧光特征及来源分析 白凯, 君珊, 郑朔方, 张博 (597)
- 乌梁素海水体与沉积物中半挥发性有机物污染水平及风险评估 黄子晏, 张亚辉, 曹家乐, 杜士林, 张瑾, 何连生 (607)
- 三峡水库补水调度对东洞庭湖典型沉水植物生境适宜性的影响 吴倩, 戴凌全, 任玉峰, 汤正阳, 戴会超, 刘新波, 刘芬, 张青森 (617)
- 云南大理洱源西湖浮游植物功能群季节演替特征 杨雅兰, 过龙根, 尹成杰, 公莉, 罗泽凤, 徐淑兰 (625)

水污染控制

- 水中聚乙烯微塑料风化行为对混凝过程的影响 徐铭遥, 彭少茵, 齐飞, 李晨, 王振北, 郭明宇 (632)
- 电絮凝-微纳米气泡臭氧氧化工艺处理高盐印染废水的研究 张亮, 周姝岑, 李攀, 陈文松 (639)
- TY-BM₁ 型多介质膜一体化设备处理农村生活污水的效果 杨明, 陈建, 潘成荣, 张雷, 马洁晨, 王琳, 龚明杰, 汪军 (648)
- 西北生态脆弱区畜禽粪污处理技术综合评价 王颖, 王月, 吴昌永, 范帅, 王浩 (654)
- 生物炭负载硫化改性纳米零价铁去除水中的 Cr(VI) 潘虹, 王兴润, 王雷, 张羽嘉, 颜湘华 (663)

- 中试 SBR 处理鸭场沼液过程中脱氮除碳效能及微生物群落演替 文红平, 杨小明, 成郁楠, 刘梦雪, 罗子锋, 李强, 李永涛, 张振 (669)
- MBBR 用于某 CAST 工艺污水处理厂提标改造的效能及碳排放分析 张玲丽, 顾敦罡, 陆嘉麒, 张楠, 李光辉, 胡立江, 贾洪柏, 王寅义 (679)
- 老城区污水管道沉积物清淤高压水射流技术研究 陈国荣, 赵青霞, 罗桂军, 童设华, 刘键, 李伟, 徐超, 龚维友, 刘智峰 (687)
- 生态修复**
- 基于土地利用变化的赤水河流域生态系统服务价值变化分析 杨应增, 周来丰, 夏伟, 王敏姿 (694)
- 低山丘陵县域生态系统服务价值的时空分异及影响因素分析——以江西德兴市为例 赵琪琛, 余敦, 王检萍, 卢一乾, 郑亚萍, 罗恬欣 (704)
- 干旱河谷区土地利用与生态系统服务价值时空演变——以四川攀西地区为例 周建伟, 杨海青, 邓青春, 刘辉, 王磊, 罗君 (715)
- 长三角地区生态承载力评价——以苏州市为例 乐晖, 金文龙, 陈亢利 (725)
- 基于鱼类产卵需求的栖息地修复效果评价 鲁芸, 吴紫涵, 刘清园, 成必新, 卿杰, 严鑫, 张泽宇, 李永 (733)
- 基于文献计量学的中国湿地碳循环研究进展 钱玺亦, 毛思湛, 蒋雨洁, 叶成辉, 卢彬富, 单楠, 严岩 (742)
- 不同规格芦苇沙障生态保护成效研究 田美荣, 田雨欣, 杨伟超, 冯朝阳, 高吉喜, 王世曦 (753)
- 土壤与固废污染控制与管理**
- 矿山公园土壤重金属的生态与健康风险评价——以湖南 M 矿为例 邓红芮, 李积普, 罗琳, 杨璐, 郭鹏飞, 谢红彬, 刘建兴 (760)
- 某废铅蓄电池炼铅遗留场地土壤重金属污染特征及健康风险评价 张浩, 王洋, 王辉, 巨文军, 黄瑞, 刘冉, 杜明 (769)
- 土壤污染物健康风险评价技术现状及发展趋势 王红梅, 吴健芳, 田自强, 李宇婷, 龚斌 (778)
- 油气田开采钻井岩屑分类利用处置现状及环境管理 周奇, 姚光远, 包为磊, 孙英杰, 黄启飞 (785)
- 黑水虻生物处理餐厨垃圾与剩余污泥的效果 毛元坤, 张子辰, 刘世奇, 张立秋, 封莉 (793)
- 基于物质流分析的电解铝氟化物全过程污染防治研究 林雨琛, 刘园, 银光, 党春阁, 熊仁艳 (800)
- 环境风险评估与管理**
- 甘肃省生态脆弱性与经济综合水平耦合协调度空间格局及影响因素 王毅, 武江民, 苗含笑, 高燕 (808)
- 基于二维和三维生态足迹的长三角城市群自然资本可持续性分析 盛若愚, 纪荣婷, 陈苏娟, 蔡金傍, 陈梅, 赵志强, 刘臣炜, 苏良湖, 曾远 (817)
- 基于多方法优化的行业优控污染物清单筛选技术研究及应用 曹婷, 刘铮, 王晓慧, 王璠, 方刚, 党春阁, 符志友 (827)
- 可持续发展视角下水环境规制研究进展及其关键问题 安敏, 王珮, 何伟军, 黄进, 谢萍 (839)
- 黄河流域城市群工业增长与碳排放脱钩关系研究 刘伟, 毛显强, 李巍, 成润禾 (849)
- 基于社会网络的我国产业系统隐含碳流动过程研究 钟诗雨, 张晓敏, 黄哲, 吴佳, 郭娜, 封强, 傅泽强 (857)
- 重型车排放远程监控技术规范制订思路及实施建议 李刚, 尹航, 吉喆, 贺可勋, 徐莎, 关敏, 王宏丽, 张明慧 (867)
- 基于 CadR 的镉生物传感器的构建与优化 蔡叶申, 张天一, 鲍凌志, 马浩, 陈少鹏 (873)
- 污染场地挥发性有机物蒸气入侵建筑物关键参数的研究 吴琳琳, 吴荣山, 郭玉婷, 吕佳佩, 郭昌胜, 徐建 (881)
- 喀斯特石漠化治理区农户适应能力研究 季天妮, 周忠发, 朱昌丽, 牛子浩, 张家硕 (889)

Contents

Spatio-temporal evolution characteristics of carbon emissions in Beijing-Tianjin-Hebei urban agglomeration derived from integrated data of DMSP-OLS and NPP-VIIRS	LI Yunyan, SHENG Qing, DAI Jian	(447)
Analysis of the present situation of greenhouse gases and air pollutants co-control in Guangdong-Hong Kong-Macao Greater Bay Area	LIU Haiyan, YU Huibin, WANG Zhigang	(455)
Analysis of research progress in carbon neutrality based on bibliometrics	ZHANG Nan, LÜ Lianhong, WANG Siyi, ZHAO Mingxuan, BAI Zihan, LUO Hong	(464)
Pollution characteristics of volatile organic compounds above subtropical forest canopy in Lingnan and the influence of regional anthropogenic emissions	JIA Tianjiao, GE Yanli, LIU Ben, SUN Jiayin, WU Wenlu, YE Jianhuai, WU Cheng, LI Yongjie, FU Tzungmay, CHEN Qi	(473)
Characteristics of the air pollution and the causes of heavy air pollution in winter in the northern slope of Tianshan Mountains: case study of Shihezi City	YANG Xin, HE Youjiang, LIAN Hanyang, ZHAO Yuxi, CHEN Yizhen, YANG Xiaoyang, LI Fuqiang, PENG Yujie, LI Weijun	(483)
Pollution characteristics and refined source apportionment for VOCs in Tianjin Industrial Area in spring and summer	LI Congshu, LIU Yongquan, LIU Huan, LIU Jinyu, CHENG Shaoling, JIANG Shengping	(491)
Characteristics and sources apportionment of air pollution during heating period in Xuzhou	FENG Chunli, RAO Yongcai, MENG Qingjiang, LI Hui, DENG Guoqing, SUN Rui	(501)
Research progress of air pollution prevention and control based on enterprise electricity consumption data	CHEN Jianhua, LI Zheng, LIU Hanqing, GAO Jian, YANG Yan, ZHU Shuang	(510)
Uncertainty analysis of air pollution under accidents of flue-gas treatment facilities for waste lead paste smelting regeneration	QIU Panpan, XU Ya, NAI Changxin, LIU Yuqiang, DONG Lu, LIN Ting, ZHANG Luyu	(517)
Catalytic combustion performance of copper manganese catalyst for low concentration ethanol	YANG Xinu, LUO Lanni, ZHOU Jingyi, LIU Jianying, HE Junliang, ZHUO Lei, LI Yun, YU Haichen	(527)
Sequencing optimization and benefit analysis based on quality evaluation of SCR denitration catalyst	HUANG Kui, HE Shanshan, LIU Haiqiu	(534)
Succession and driving factors of Lake Dianchi aquatic ecosystem in the past 60 years	JIANG Jianjian, HU Wen, YE Chun, SONG Di, WANG Zhiyun, LI Chunhua, LI Jie, TANG Cheng	(541)
Coastal construction setback line in China: research progress, problems and recommendations	HOU Liping, HE Ping, PENG Bo, WANG Dewang, XU Jie, LI Daikui, LEI Kun	(552)
Water ecological health assessment based on the biological integrity of macroinvertebrate: a case from Liaohu River Basin	LIU Sisi, SHANG Guangxia, GAO Xin, KONG Weijing, XIA Huijun, DING Sen	(559)
Research on the application of EwE model in aquatic ecosystems and a case study of Changtan Reservoir	SHI Zhanyao, ZHANG Jingtian, HUO Shouliang	(567)
Analysis of the coordination status and evolution law of development intensity and habitat quality in the Integrated Region of the Yangtze River Delta	ZHANG Leqin, WANG Lei	(578)
Occurrence of PPCPs in surface water and sediment in China and influencing factors of interactive migration	TIAN Yongjing, WU Yusheng, HUANG Tianyin, CHEN Shuqin, ZHANG Jiagen, PANG Yan	(585)
Fluorescence characteristics and sources of dissolved organic matter in Hulun Lake	BAI Kai, JUN Shan, ZHENG Shuofang, ZHANG Bo	(597)
Distribution and risk assessment of semi-volatile organic compounds in water and sediment of Ulansuhai Nur	HUANG Ziyang, ZHANG Yahui, CAO Jiale, DU Shilin, ZHANG Jin, HE Liansheng	(607)
Impact of Three Gorges Reservoir water supply regulation on habitat suitability of typical submerged plants in East Dongting Lake	WU Qian, DAI Lingquan, REN Yufeng, TANG Zhengyang, DAI Huichao, LIU Xinbo, LIU Fen, ZHANG Qingsen	(617)
Study on the seasonal succession of phytoplankton functional groups in Eryuan West Lake of Dali City, Yunnan Province	YANG Yalan, GUO Longgen, YIN Chengjie, GONG Li, LUO Zefeng, XU Shulan	(625)
Effect of weathering behavior of polyethylene microplastics in water on coagulation process	XU Mingyao, PENG Shaoyin, QI Fei, LI Chen, WANG Zhenbei, GUO Mingyu	(632)
Study on treatment of high-salt printing and dyeing wastewater by electroflocculation-micro-nano-bubble ozone oxidation process	ZHANG Liang, ZHOU Shucen, LI Pan, CHEN Wensong	(639)
Effect of TY-BM₁ multi-media membrane integrated equipment on rural domestic sewage treatment	YANG Ming, CHEN Jian, PAN Chengrong, ZHANG Lei, MA Jiechen, WANG Lin, GONG Mingjie, WANG Jun	(648)
Comprehensive evaluation research of livestock and poultry waste treatment technologies in the ecological fragile areas of Northwest China	WANG Ying, WANG Yue, WU Changyong, FAN Shuai, WANG Hao	(654)
Experimental study on the removal of Cr(VI) from water by biochar-based sulfide modification loaded with nano-zero valent iron	PAN Hong, WANG Xingrun, WANG Lei, ZHANG Yujia, YAN Xianghua	(663)

- Performance of a pilot-scale sequential batch reactor (SBR) on nitrogen and carbon removals and its characteristics of microbial community succession from biogas slurry from duck farm** (669)
 ... WEN Hongping, YANG Xiaoming, CHENG Yunan, LIU Mengxue, LUO Zifeng, LI Qiang, LI Yongtao, ZHANG Zhen
- Performance and carbon emission of applying CAST embedded with MBBR to retrofit a wastewater treatment plant** (679)
 ... ZHANG Lingli, GU Dungang, LU Jiaqi, ZHANG Nan, LI Guanghai, HU Lijiang, JIA Hongbai, WANG Yinyi
- Research on high-pressure water jet technology for sediment dredging of sewage pipeline in old urban area** (687)
 ... CHEN Guorong, ZHAO Qingxia, LUO Guijun, TONG Shehua, LIU Jian, LI Wei, XU Chao, GONG Weiyu, LIU Zhifeng
- Ecosystem service value change analysis of Chishui River Basin based on land use change** (694)
 ... YANG Yingzeng, ZHOU Laifeng, XIA Wei, WANG Minzi
- Spatial and temporal variation and impact factors analysis of ecosystem service value in low-mountain counties: taking Dexing City in Jiangxi Province as an example** (704)
 ... ZHAO Qichen, YU Dun, WANG Jianping, LU Yiqian, ZHENG Yaping, LUO Tianxin
- Spatial-temporal changes of land use and ecosystem service value in dry valleys: a case study of Panxi area, Sichuan Province** (715)
 ... ZHOU Jianwei, YANG Haiqing, DENG Qingchun, LIU Hui, WANG Lei, LUO Jun
- Evaluation of ecological carrying capacity in Yangtze River Delta: a case study of Suzhou City** (725)
 ... YUE Hui, JIN Wenlong, CHEN Kangli
- Evaluation of habitat restoration effect based on fish spawning requirements** (733)
 ... LU Yun, WU Zihan, LIU Qingyuan, CHENG Bixin, QING Jie, YAN Xin, ZHANG Zeyu, LI Yong
- Research progress of wetland carbon cycle in China based on bibliometrics** (742)
 ... QIAN Xiyi, MAO Sichen, JIANG Yujie, YE Chenghui, LU Binfu, SHAN Nan, YAN Yan
- Study on conservation effectiveness of reed sand barrier with different types** (753)
 ... TIAN Meirong, TIAN Yuxin, YANG Weichao, FENG Chaoyang, GAO Jixi, WANG Shixi
- Ecological and health risk assessment of soil heavy metals in a mining park: a case study of M Mine in Hunan Province** (760)
 ... DENG Hongrui, LI Jipu, LUO Lin, YANG Lu, GUO Pengfei, XIE Hongbin, LIU Jianxing
- Heavy metal pollution characteristics and health risk assessment of soil from an abandoned site for lead smelting of waste lead batteries** (769)
 ... ZHANG Hao, WANG Yang, WANG Hui, JU Wenjun, HUANG Rui, LIU Ran, DU Ming
- Status and development trend of soil pollutant health risk assessment technology** (778)
 ... WANG Hongmei, WU Jianfang, TIAN Ziqiang, LI Yuting, GONG Bin
- Current utilization, disposal and environmental management of drilling cuttings from oil and gas field exploitation** (785)
 ... ZHOU Qi, YAO Guangyuan, BAO Weilei, SUN Yingjie, HUANG Qifei
- Effect of biotreatment of kitchen waste and excess activated sludge by black soldier fly** (793)
 ... MAO Yuankun, ZHANG Zichen, LIU Shiqi, ZHANG Liqui, FENG Li
- Research on fluoride whole-process prevention and control in the electrolytic aluminum enterprise based on material flow analysis** (800)
 ... LIN Yuchen, LIU Yuan, YIN Guang, DANG Chungge, XIONG Renyan
- Spatial pattern and influencing factors of coupling coordination degree between ecological vulnerability and comprehensive economic level in Gansu Province** (808)
 ... WANG Yi, WU Jiangmin, MIAO Hanxiao, GAO Yan
- Analysis of natural capital sustainability of the Yangtze River Delta urban agglomeration based on two-dimensional and three-dimensional ecological footprint models** (817)
 ... SHENG Ruoyu, JI Rongting, CHEN Sujuan, CAI Jinbang, CHEN Mei, ZHAO Zhiqiang, LIU Chenwei, SU Lianghu, ZENG Yuan
- Research and application of screening technology of industrial priority control pollutants list based on multi-method optimization** (827)
 ... CAO Ting, LIU Zheng, WANG Xiaohui, WANG Fan, FANG Gang, DANG Chungge, FU Zhiyou
- Research progress of water environment regulation and its key issues from the perspective of sustainable development** (839)
 ... AN Min, WANG Bei, HE Weijun, HUANG Jin, XIE Ping
- Study on decoupling relationship between industrial growth and carbon dioxide emission in the urban agglomeration in the Yellow River Basin** (849)
 ... LIU Wei, MAO Xianqiang, LI Wei, CHENG Runhe
- Study on the embodied carbon's flow process in China's industrial system based on social networks** (857)
 ... ZHONG Shiyu, ZHANG Xiaomin, HUANG Zhe, WU Jia, WU Na, FENG Qiang, FU Zeqiang
- Formulation ideas and implementation suggestions on technical specification for emission remote supervision system of heavy-duty vehicles** ... (867)
 ... LI Gang, YIN Hang, JI Zhe, HE Kexun, XU Sha, GUAN Min, WANG Hongli, ZHANG Minghui
- Construction and optimization of cadmium-responsive bacterial biosensor based on CadR** (873)
 ... CAI Yeshen, ZHANG Tianyi, BAO Lingzhi, MA Jie, CHEN Shaopeng
- Research on key building parameters affecting the vapor intrusion of VOCs in contaminated sites** (881)
 ... WU Linlin, WU Rongshan, GUO Yuting, LÜ Jiawei, GUO Changsheng, XU Jian
- Study on the adaptability of farmers in Karst rocky desertification control area** (889)
 ... JI Tianni, ZHOU Zhongfa, ZHU Changli, NIU Zihao, ZHANG Jiashuo