

目 次

膜接触反应器臭氧传质及其对模拟印染废水的降解	张勇,王军,侯得印,刘会娟(4453)
UV-Fenton 光催化法深度处理紫胶漂白废水	陈佩佩,张弘,郑华,孙彦琳,张雯雯,李凯,李坤(4459)
生物酶-CTMAB/CPAM 联合调理对活性污泥脱水性能的影响	曹艾清,王毅力(4467)
污泥性质对动态膜形成与污染的影响	吴亚南,王晓昌,于真真,胡以松(4476)
水羟锰矿去除地下水中苯酚的影响因素及机理	董子莹,廉新颖,姜永海,席北斗,侯立安,梁冠男,孙晓玲(4481)
聚乙烯醇包埋水化硅酸钙粉末制备薄片状材料用于处理含磷废水	王涵,吉芳英,范剑平,刘大伟,吴安琪,张千(4489)
负载 CoO 催化粒子电极的制备及其对腐殖酸的降解	解迪,李雪,李飞贞,梁文艳(4497)
垃圾填埋场渗滤液和浓缩液的蒸发特性	潘松青,叶志隆,程蒙召,徐颖(4506)
洋河流域不同时空水体重金属污染及健康风险评价	程鹏,李叙勇(4513)
3 种不同工艺中莠灭净的去除特性及自由基鉴定	王超慧,李卫平,高乃云,杨文煊,于玲红(4520)
SBBR 与人工湿地组合工艺脱氮除磷	刘舒巍,张从轩,杨兴桐,李媛,王晓慧,海热提(4527)
臭氧-活性炭组合工艺深度处理垃圾渗滤液 MBR 出水	张永森,郑彤,孙彦龙,王鹏(4535)
曝气对管式 MBR 膜污染及临界通量影响	钱光磊,谢陈鑫,滕厚开,张艳芳,赵慧,周集体(4542)
氧化锌纳米颗粒对 SBR 中活性污泥脱氮性能及硝化细菌丰度的影响	李维,石先阳(4549)
曝气强化微生物功能菌修复黑臭水体	徐熊鲲,谢翼飞,陈政阳,刘国,唐彬彬,高阳阳(4559)
用作固定 SRB 碳源的玉米芯的最佳改性条件	狄军贞,任亚东,郭俊杰,韩宏泉,袁哲,林鑫,石书萌(4566)
CAST 反应池底污泥均衡化技术及设备配置	饶宾期,万延见,程霄,陈忠利,梁喜凤(4571)
高效耦合/生物再生工艺处理印染二级生化出水的脱氮效果	蒋素英,谢菁,陈园园,蔡培杰,李俊波,张波,罗志军,吴智仁(4577)
3 种修复剂对底泥中不同形态重金属去除效果评估	臧晓梅,缪爱军,郑浩,樊祥科,樊宝洪,杨柳燕(4585)
Mn 掺杂 TiO ₂ 纳米材料的制备及可见光催化降解水中腐殖酸	王菲凤,李丽丽,吴春山,林智斌,朱爽(4594)
污水生物脱氮过程硝化阶段 N ₂ O 动力学模型	刘玉田,张守彬,邱立平,张媛媛(4601)
焦化废水在厌氧反硝化产甲烷体系中降解动力学特征	王孝维,岳秀萍,薛晖军(4609)
PATS 的制备表征及其处理低浊水效能与残留铝控制	常鼎伟,任壮,武文洁(4615)
预氯化对 PDMDAAC 形成消毒副产物 NDMA 的影响	蒋绍阶,黄雪,袁秋红,谈思颖,赖阳洲,向平(4621)
间歇曝气 SBR 处理垃圾渗滤液的脱氮性能	刘亭,范举红,刘锐,川岸朋树,陈吕军(4627)
内、外循环空气净化系统理论模型构建与性能对比分析	沈志鹏,尚阔,王晋琳,郑祥,程荣(4634)
活性粉末脱硝剂制备及其催化还原 NO _x 性能	李小芝,张俊丰,黄妍(4641)
开口散射器对滤筒除尘脉冲清灰效果的影响	胥海伦,周苗苗,张情,刘东,李岚溪(4647)
采空区煤层封存 CO ₂ 影响因素分析	高飞,邓存宝,王雪峰,武司苑(4653)
忻州市大气 PM _{2.5} 的化学组成质量平衡特征及来源解析	赵雪艳,王歆华,褚彦辛,杨文,任丽红,白志鹏(4660)

- 高架覆盖的街谷内可吸入颗粒物的浓度分布 冯寒立, 赵敬德, 翟静 (4669)
- SiO₂ 掺杂对 V₂O₅-WO₃/TiO₂ 脱硝催化性能的影响 周惠, 黄华存, 董文华 (4677)
- 微波辐照活性炭还原氮氧化物 张学杨, 邹吕熙, 张茹 (4685)
- 鼓泡式 UV-Fenton 法处理二甲苯废气 于鹏, 吴成强, 许李, 蒋轶锋, 林忠秒 (4691)
- 硅钙渣用于烟气脱硫的可行性 黄利华, 张腾祥, 郎莹婕, 陈海焱 (4696)
- Cu²⁺ 对有机废物联合发酵产乳酸的影响 张婷, 李君, 张文娟, 李响, 刘亚男 (4701)
- 废弃电器再制造/再利用逆向物流库存模型 刘志峰, 赵鹏, 黄海鸿, 许泽莹 (4708)
- 泡沫混凝土对模拟氨氮废水的吸附 李金辉, 周涛, 曾超, 张杰, 李杭芬, 赵由才 (4718)
- 添加三氯化铁对中温污泥厌氧消化优化调理 杨光, 张光明, 张盼月, 杨安琪, 王园园, 唐翔 (4725)
- 加热位置对沼气罐温度场影响的实验和模拟 张君美, 李方雪, 刘洋, 宋杰青 (4732)
- 筒仓式堆肥反应器不同通风量对堆肥效果的影响 侯超, 李永彬, 徐鹏翔, 李季 (4737)
- 预处理沼液与餐厨废弃物的厌氧产气发酵特性 殷丽丽, 李文哲, 王金秋, 宋欣悦, 公维佳, 罗丽娜 (4745)
- 改性粉煤灰基脱汞吸附剂制备及性能分析 田园梦, 刘清才, 孔明, 赵冬, 杨剑, 任山 (4751)
- 浮萍与剩余污泥厌氧消化产沼气实验 姜楠, 任洪艳, 阮文权, 廖家林 (4757)
- 影响滩涂淤泥早期固化强度的多因子正交分析 严雷鸣, 祝建中, 朱晓强, 陈立, 程伦旭 (4766)
- 废旧碱性电池-活性污泥炭的制备及对废水中 Cd²⁺ 的吸附 牛志睿, 喻伟东, 冯美宁, 张立, 江明荣 (4775)
- 页岩气开发油基钻屑真空热解资源化处理 黄维巍, 周泽军, 何勇, 闫梦洋, 夏世斌 (4783)
- 活性碳纤维电极电吸附去除乙酸 王甜甜, 赵春玲, 张倩茹, 张晴, 孙桦, 党光耀, 侯超 (4789)
- 利用拜耳法赤泥和氟化钙污泥制备烧结砖块 任孟杰, 郭焱 (4797)
- 优化复合调理促进含油污泥自持燃烧 张建琴, 张凤娥, 董良飞, 高雯, 秦焱 (4803)
- 焚烧飞灰中 Pb 的浸出特征及预处理效果 肖悦, 刘童, 缪乐, 李杰瑞, 蓝天威, 刘丹 (4808)
- 水稻秸秆炭及组合改良剂对石漠化地区土壤-玉米系统中重金属迁移特征影响 孔玮琳, 叶丽丽, 李顺安, 袁贤斌, 蒋金平 (4815)
- 磷回收产物对土壤中铜的原位修复作用 成雪君, 王学江, 陈杰, 赵建夫 (4824)
- 云南个旧矿区 Pb 污染稻田土壤钝化修复 邓晓霞, 黎其万, 米艳华, 段红平, 陈璐, 张文波, 魏茂琼 (4831)
- 5 类典型土壤对村镇生活垃圾渗滤液的吸附特征 晏卓逸, 岳波, 苑广耀, 吴小卉, 黄启飞, 王琪, 高红 (4838)
- 基于寡培养可视化的铀污染检测的微生物组合 戚鑫, 肖伟, 陈晓明, 肖诗琦, 罗学刚 (4844)
- 应用多属性决策分析法筛选污染场地土壤修复技术 陶欢, 廖晓勇, 阎秀兰, 赵丹, 李尤 (4850)
- 福州市蔬菜基地土壤重金属和多环芳烃的含量及其与土壤磁性指标的关系 徐素云, 陈卫锋, 倪进治, 魏然, 钱伟, 杨柳明 (4861)
- 共基质型微生物燃料电池降解偶氮染料与产电 虞洋, 胡淑恒, 程建萍, 孙秋阳, 郭婧, 汪家权 (4868)
- 大型机力通风冷却塔噪声控制设计 黄功俊, 郭文成, 闵鹤群 (4874)
- 单机飞机噪声等值线面积与测量点噪声级关系 闫国华, 李启龙 (4881)
- 沙柳活性炭纤维的制备与表征 李严, 王欣, 黄金田, 李亚玲 (4888)
- 基于静电吸附技术对废润滑油净化再生 梁宏宝, 张德胜, 姜燕敏, 马铭, 陈洪涛, 王鸿宇, 蒋东来 (4893)

CONTENTS

Using a membrane contactor for ozone mass transfer study and model dye wastewater treatment	ZHANG Yong, WANG Jun, HOU Deyin, LIU Huijuan(4453)
Advanced treatment and degradation kinetics of shellac bleaching wastewater by UV-Fenton photocatalytic process	CHEN Peipei, ZHANG Hong, ZHENG Hua, SUN Yanlin, ZHANG Wenwen, LI Kai, LI Kun(4459)
Effect of combined enzymes-CTMAB/CPAM conditioning on activated sludge dewaterability	CAO Aiqing, WANG Yili(4467)
Effect of sludge properties on membrane formation and fouling in a dynamic membrane bioreactor	WU Yanan, WANG Xiaochang, YU Zhenzhen, HU Yisong(4476)
Impact factors and mechanism of phenol removal in groundwater by vernadite	DONG Zixuan, LIAN Xinying, JIANG Yonghai, XI Beidou, HOU Lian, LIANG Guannan, SUN Xiaoling(4481)
Preparation of PVA entrapped CSH adsorbent sheets and used for treatment of phosphorus wastewater	WANG Han, JI Fangying, FAN Jianping, LIU Dawei, WU Anqi, ZHANG Qian(4489)
Preparation of electro-catalytic particle electrodes coated by CoO and its performance on humic acid degradation	XIE Di, LI Xue, LI Feizhen, LIANG Wenyan(4497)
Evaporation characteristics of landfill leachate and its concentrate generated after MBR-NF-RO treatment process	PAN Songqing, YE Zhilong, CHENG Mengzhao, XU Ying(4506)
Heavy metals pollution and related health risk assessment of Yang River: Spatial and temporal variation	CHENG Peng, LI Xuyong(4513)
Comparing the degradation of Ametryn in three different systems and identification of radical species	WANG Chaohui, LI Weiping, GAO Naiyun, YANG Wenhuan, YU Linghong(4520)
Biological phosphorus and nitrogen removal by combined process of sequencing biofilm batch reactor and constructed wetland	LIU Shuwei, ZHANG Congxuan, YANG Xingtong, LI Yuan, WANG Xiaohui, HAI Reti(4527)
Ozone-activated carbon combined technology used in depth treatment of landfill leachate MBR effluent	ZHANG Yongsen, ZHENG Tong, SUN Yanlong, WANG Peng(4535)
Effect of aeration on membrane fouling and critical flux in microfiltration tubular membranes	QIAN Guanglei, XIE Chenxin, TENG Houkai, ZHANG Yanfang, ZHAO Hui, ZHOU Jiti(4542)
Effects of ZnO nanoparticles on nitrogen removal performance and nitrifying bacteria abundance of activated sludge in SBR	LI Wei, SHI Xianyang(4549)
Remediation of urban black-odorous river by aeration enhancing functional strains	XU Xiongkun, XIE Yifei, CHEN Zhengyang, LIU Guo, TANG Binbin, GAO Yangyang(4559)
Best conditions of modification about corncob as SRB fixed carbon source	DI Junzhen, REN Yadong, GUO Junjie, HAN Hongquan, YUAN Zhe, LIN Xin, SHI Shumeng(4566)
Equalization technology and device configuration scheme for sludge at bottom of CAST reaction tank	RAO Binqi, WAN Yanjian, CHENG Xiao, CHEN Zhongli, LIANG Xifeng(4571)
Nitrogen removal effect on treatment of secondary biochemical effluent in dyeing wastewater by high-efficiency coupling/biological regeneration process	JIANG Suying, XIE Jing, CHEN Yuanyuan, CAI Peijie, LI Junbo, ZHANG Bo, LUO Zhijun, WU Zhiren(4577)
Efficiency of three remediation agents on removal of heavy metals or metalloids from sediments	ZANG Xiaomei, MIAO Aijun, ZHENG Hao, FAN Xiangke, FAN Baohong, YANG Liuyan(4585)
Preparation of Mn doped TiO ₂ nanomaterials and their visible-light photocatalytic performance for degradation of humic acid	WANG Feifeng, LI Lili, WU Chunshan, LIN Zhibin, ZHU Shuang(4594)
N ₂ O dynamics model during nitrification phase in wastewater biological treatment process	LIU Yutian, ZHANG Shoubin, QIU Liping, ZHANG Yuanyuan(4601)
Degradation kinetics characteristics of coking wastewater in anaerobic simultaneous denitrification and methanogenesis	WANG Xiaowei, YUE Xiuping, XUE Huijun(4609)
Preparation and characterization of PATS and its effect of coagulation and control of residual aluminum on low-turbidity water treatment	CHANG Dingwei, REN Zhuang, WU Wenjie(4615)
Effect of pre-chlorination on NDMA formation from PDMDAAC	JIANG Shaojie, HUANG Xue, YUAN Qihong, TAN Siying, LAI Yangzhou, XIANG Ping(4621)
Nitrogen removal performance of an intermittent aeration sequencing batch reactor for treatment of landfill leachate	LIU Ting, FAN Juhong, LIU Rui, KAWAGISHI Tomoki, CHEN Lijun(4627)
Theoretical model and performance comparison of inner and outer circulation air purification system	SHEN Zhipeng, SHANG Min, WANG Jinlin, ZHENG Xiang, CHENG Rong(4634)
Preparation of active solid powder denitrator and performance of catalytic reduction of NO _x	LI Xiaozhi, ZHANG Junfeng, HUANG Yan(4641)
Influence of opening diffuser on pulse-jet dust-cleaning efficiency of cartridge filters	XU Hailun, ZHOU Miaomiao, ZHANG Qing, LIU Dong, LI Lanxi(4647)
Analysis on factors affecting sequestration of CO ₂ in coal seam	GAO Fei, DENG Cunbao, WANG Xuefeng, WU Siyuan(4653)
Characterization of chemical composition mass balance and source appointment of ambient PM _{2.5} in Xinzhou city	ZHAO Xueyan, WANG Xinhua, CHU Yanxin, YANG Wen, REN Lihong, BAI Zhipeng(4660)

Concentration diffusion of particulate matter in street canyon covered with elevated road	FENG Hanli, ZHAO Jingde, ZHAI Jing(4669)
Effect of SiO ₂ doped over V ₂ O ₅ -WO ₃ /TiO ₂ catalyst for selective catalytic reduction of NO by NH ₃	ZHOU Hui, HUANG Huacun, DONG Wenhua(4677)
NO _x reduction by activated carbon under microwave irradiation	ZHANG Xueyang, ZOU Lüxi, ZHANG Ru(4685)
Purification of xylenes by bubbling UV-Fenton method	YU Peng, WU Chengqiang, XU Li, JIANG Yifeng, LIN Zhongmiao(4691)
Feasibility of calcium silicate slag for flue gas desulfurization	HUANG Lihua, ZHANG Tengxiang, LANG Yingjie, CHEN Haiyan(4696)
Effect of Cu ²⁺ on yield of lactic acid from organic waste fermentation	ZHANG Ting, LI Jun, ZHANG Wenjuan, LI Xiang, LIU Yanan(4701)
Remanufacturing and reusing reverse logistics inventory model of waste electronic products	LIU Zhifeng, ZHAO Peng, HUANG Haihong, XU Zeying(4708)
Removal of NH ₄ ⁺ -N from aqueous solutions using foam concrete	LI Jinhui, ZHOU Tao, ZENG Chao, ZHANG Jie, LI Hangfen, ZHAO Youcai(4718)
Enhancement and conditioning effects of sludge anaerobic digestion by adding FeCl ₃	YANG Guang, ZHANG Guangming, ZHANG Panyue, YANG Anqi, WANG Yuanyuan, TANG Xiang(4725)
Experiment and simulate influence of heating position on biogas tank temperature field	ZHANG Junmei, LI Fangxue, LIU Yang, SONG Jieqing(4732)
Composting effects of using pilot silo reactor by different ventilation rate	HOU Chao, LI Yongbin, XU Pengxiang, LI Ji(4737)
Characteristics of pretreatments sludge on hydrogen and methane production by anaerobic fermentation	YIN Lili, LI Wenzhe, WANG Jinqiu, SONG Xinyue, GONG Weijia, LUO Lina(4745)
Modification and property analysis of fly ash based adsorbent for mercury	TIAN Yuanmeng, LIU Qingcai, KONG Ming, ZHAO Dong, YANG Jian, REN Shan(4751)
Anaerobic digestion experiments about duckweed and excess sludge to produce biogas	JIANG Nan, REN Hongyan, RUAN Wenquan, LIAO Jialin(4757)
Multi-factors orthogonal analysis on influence of early solidification strength of beach sediment	YAN Leiming, ZHU Jianzhong, ZHU Xiaoqiang, CHEN Li, CHENG Lunxu(4766)
Preparation of spent alkaline batteries-sludge-based activated carbon and its adsorption of Cd ²⁺	NIU Zhirui, YU Weidong, FENG Meining, ZHANG Li, JIANG Mingrong(4775)
Resources utilization of oil-based drilling cuttings vacuum pyrolysing in shale gas developing	HUANG Weiwei, ZHOU Zejun, HE Yong, YAN Mengyang, XIA Shibin(4783)
Removal of acetic acid by electro adsorption with activated carbon fiber electrodes	WANG Tiantian, ZHAO Chunling, ZHANG Qianru, ZHANG Qing, SUN Hua, DANG Guangyao, HOU Chao(4789)
Using Bayer red mud and calcium fluoride sludge to make co-fired bricks	REN Mengjie, GUO Yan(4797)
Optimization of Co-conditioning treatment promotes self-sustained combustion of oil sludge	ZHANG Jianqin, ZHANG Fenge, DONG Liangfei, GAO Wen, QIN Yi(4803)
Characteristic of leaching toxicity of lead in flying ash with pretreatment effect	XIAO Yue, LIU Tong, MIAO Yue, LI Jierui, LAN Tianwei, LIU Dan(4808)
Effects of straw biochar and amendments on heavy metals translocation in corn-soil system in rocky desertification area	KONG Weilin, YE Lili, LI Shunan, YUAN Xianbin, JIANG Jinping(4815)
In-situ remediation of copper in contaminated soil by addition of phosphorus recovery product	CHENG Xuejun, WANG Xuejiang, CHEN Jie, ZHAO Jianfu(4824)
Immobilization remediation of Pb-contaminated paddy soils in Gejiu Mining Area, Yunnan	DENG Xiaoxia, LI Qiwan, MI Yanhua, DUAN Hongping, CHEN Lu, ZHANG Wenbo, WEI Maoqiong(4831)
Five kind soils' static adsorption capacity to rural living garbage leachate	YAN Zhuoyi, YUE Bo, YUAN Guangyao, WU Xiaohui, HUANG Qifei, WANG Qi, GAO Hong(4838)
Monitor uranium contamination using combinatorial microorganisms with visible character based on oligotrophic culture way	QI Xin, XIAO Wei, CHEN Xiaoming, XIAO Shiqi, LUO Xuegang(4844)
Application of multiple attributes decision analysis to selection of soil remediation technologies for contaminated sites	TAO Huan, LIAO Xiaoyong, YAN Xiulan, ZHAO Dan, LI You(4850)
Contents of heavy metals and PAHs and their relationships with magnetic susceptibility in soils of vegetable base in Fuzhou city	XU Suyun, CHEN Weifeng, NI Jinzhi, WEI Ran, QIAN Wei, YANG Liuming(4861)
Decolorization of azo dye and bioelectricity generation by microbial fuel cell with co-substrate	YU Yang, HU Shuheng, CHENG Jianping, SUN Qiuyang, GUO Jing, WANG Jiaquan(4868)
Noise control of large mechanical draft cooling towers	HUANG Gongjun, GUO Wencheng, MIN Hequn(4874)
Relationship between single aircraft noise contour area and noise levels at certification points	YAN Guohua, LI Qilong(4881)
Preparation and characterization of salix psammophila-based activated carbon fibers	LI Yan, WANG Xin, HUANG Jintian, LI Yaling(4888)
Purification and regeneration of waste lubrication oil based on electrostatic adsorption technology	LIANG Hongbao, ZHANG Desheng, LOU Yanmin, MA Ming, CHEN Hongtao, WANG Hongyu, JIANG Donglai(4893)