

## 目次

QA-MCM-41 吸附剂脱氮除磷性能 .....	王程斋,朱志慧,王婷,赵华章(6217)
混凝-超滤过程中絮体形态对膜污染的影响 .....	邹瑜斌,陈昊雯,段淑璇,肖峰,王晓爽,伍建军(6226)
UV/SO <sub>3</sub> <sup>2-</sup> 体系降解水中十溴联苯醚 .....	苍岩,余娜,李继,杨兢欣,宋伟(6233)
海水微絮凝预处理对超滤膜通量的影响 .....	赵瑾,王文华,王勋亮,姜天翔,王静,张雨山(6240)
膜曝气生物反应器内 DO 分布变化及其对有机物和氮去除的影响 .....	刘琪,程方,张文丽,张景丽,杨南阳,樊星(6246)
双阴极 MFC 启动过程中的电化学特性 .....	张建民,魏佳齐,崔心水,薛瑶(6252)
脉冲曝气活性污泥胞外聚合物的产生特性及其与脱氮效率的关系 .....	秦丹宁,姜伟立,陈娇,程盼盼,马陈焜,高欢,张勇(6259)
基于减压脱水干燥技术的高浓度工业污水中重金属的去除与资源化 .....	吴晓芳,沈小雪,邹振东,李瑞利,范怡,邱国玉,中村和彦,高健(6266)
活性污泥吸附联合发酵产酸资源化回收污水碳源 .....	王元元,刘和,符波,王玲,刘宏波(6276)
氧化-载钠改性黑臭河道底泥对磷削减的效果及机制 .....	陈星,陆莹,黄威(6282)
钾明矾缓释除磷剂处理分散式农村生活污水 .....	王磊,黄勇,郭召海(6290)
改性核桃果皮基活性炭对 Cu <sup>2+</sup> 的吸附 .....	刘晓红,李甜甜,邓倩倩(6295)
有机-无机杂化絮凝剂 PAM-PAFC 的合成与表征 .....	蒋绍阶,王昕蕾(6301)
再生水补给河道入渗区地下水水质时空变异分析 .....	李海云,梁籍,郭道宇(6309)
多针-板脉冲放电处理模拟尾气中的 NO <sub>x</sub> .....	董冰岩,何俊文,张雨路,孙宇,甘青青(6321)
钙离子浓度对水华微囊藻生物钙化固定 CO <sub>2</sub> 的影响 .....	李晓敏,罗克梦,和凤,杨珍妮,范文宏(6327)
烟气脱硫中亚硫酸钙铁锰复合催化氧化优化 .....	蒋路漫,周振,俞杰,胡大龙(6332)
磁性载银滤料对燃煤烟气中 Hg <sup>0</sup> 的吸附性能 .....	赵艳,周发山,刁永发,刘静,傅月梅(6339)
利用反硝化法净化难降解吡啶废气 .....	卓猛,何成达,刘伟慧(6345)
K <sub>2</sub> S <sub>2</sub> O <sub>8</sub> 氧化吸收 NO 的热力学与传质分析 .....	黄浩,胡辉,陶功开,谢静,阮长超(6351)
对柴油机集成后处理系统催化性能的数值模拟 .....	谭理刚,刘少春,刘湘玲,郭雅各,冯鹏飞,杨树宝(6359)
室内外 PM <sub>2.5</sub> 污染特征、形貌及矿物组成 .....	张永勇,贾瑛,李明,侯立安(6366)
重庆城区 PM <sub>2.5</sub> 化学组分特征及季节变化 .....	余家燕,王军,许丽萍,李礼,刘芮伶,刘佳(6372)
重庆主城区近年一次典型空气重污染过程分析 .....	李礼,许丽萍,余家燕,刘芮伶(6379)

基于双权重模糊综合评判的南京空气质量评价 .....	李成, 李坤权 (6386)
不同季节工业城市大气颗粒物浓度监测与聚类分析 .....	丁朔, 沈仕亮, 黄远东 (6393)
纤维素乙醇糟液对稻秸猪粪厌氧发酵的促进机制 .....	艾平, 张济韬, 席江, 沈子赢, 杨志浩, 陆逸, 胡钊 (6404)
拜耳赤泥中镓的酸法浸出及残渣的除氟 .....	路坊海, 肖唐付, 梁杰, 伍玉娇, 黄芳, 龙琼, 肖立华, 刘冰, 周登凤, 曾英 (6415)
含油钻屑的热解特性 .....	周浩, 汪根宝, 李蒙, 张磊, 陈时熠, 向文国 (6421)
不同菌种组合对发酵残余物好氧堆肥进程及氮素变化的影响 .....	王守红, 徐荣, 朱凌宇, 寇祥明, 王小治, 王桂良, 韩光明, 毕建花, 唐鹤军, 张家宏 (6429)
污泥、皮革和煤的协同热处置 .....	钱晓峰, 王肖杭, 陆鹏, 王东科, 何石鱼, 黄群星 (6437)
PLA、PPC 或 PBAT 与 2 次改性小麦秸秆全降解复合材料的力学性能与生态风险 .....	周鑫, 韩耀霞, 邓仕槐, 王莉淋, 张静, 张蓝月, 陈红春, 李金阳, 李瑶, 张雅琪, 陈亭微 (6443)
产漆酶血红密孔菌对城市污泥堆肥过程中有机氯农药的降解效应 .....	申艳萍, 王巧利, 胡绳, 李烜楨, 李聪 (6450)
煤粉发泡剂对赤泥陶粒烧胀特性的影响 .....	谢武明, 张文治, 周峰平, 李俊, 马峡珍, 张宁, 顾舸, 邱晓盛, 钟明钊 (6458)
脂肪酶对餐厨垃圾厌氧产气的影响 .....	梁晶晶, 苏辉 (6465)
初始 pH 和温度对餐厨垃圾厌氧发酵制氢的影响 .....	王勇, 任连海, 赵冰, 贾璇 (6470)
油气田聚合物类钻井液添加剂分子结构与环境影响的相关性 .....	谢水祥, 邓皓, 孙静文, 任雯, 张明栋, 刘晓辉 (6477)
北京市生活垃圾焚烧发电厂温室气体排放及影响因素 .....	王龙, 李颖 (6490)
冻融循环对含铁材料稳定砷污染土壤的影响 .....	徐文义, 李敏, 黄民生, 马彤彤 (6497)
热解条件对茶叶渣生物炭特性及镉污染土壤钝化效果的影响 .....	李长欣, 吕严凤, 张梦迪, 蒋容, 冯映黎, 杨占彪 (6504)
改良剂对重金属复合污染土壤的修复效果 .....	许剑臣, 李晔, 肖华锋, 刘东斌, 李波 (6511)
微波强化高级氧化降解土壤中邻苯二甲酸二丁酯 .....	郑友平, 林亲铁, 罗昊昱, 彭圣鹏, 李坤, 姜洁如 (6518)
定流量条件下壤土夹层对苯和 Br <sup>-</sup> 穿透包气带的影响 .....	郭蕾蕾, 许模, 王璐, 李青山, 康小兵 (6524)
“生态沟渠+人工湿地”系统处理农田退水中噻虫嗪 .....	李本行, 李增辉, 曲丹, 孙德智 (6532)
再生水补水河道中流速对浮游藻类生长影响的模拟实验 .....	魏楨, 贾海峰, 姜其贵, 孟德娟, 杨舒媛 (6540)
云南某铬渣污染场地土壤修复工程实例 .....	孟祥瑞, 许超, 杨远强, 李书鹏, 朱宏伟, 周强 (6547)
生活垃圾分选线上柔性破袋机的原理与设计 .....	高根树, 任悦, 刘中明, 刘淑芬 (6554)
祝贺《环境工程学报》副主编贺泓研究员当选中国工程院院士 .....	插页
祝贺《环境工程学报》编委张福锁教授当选中国工程院院士 .....	插页
2017 年总目次 .....	(1)

## CONTENTS

<b>Performance of QA-MCM-41 adsorbent for nitrate and phosphate removal</b>	··· WANG Chengzhai, ZHU Zhihui, WANG Ting, ZHAO Huazhang (6217)
<b>Effect of floc morphology on membrane fouling in a coagulation-ultrafiltration process</b>	····· ZOU Yubin, CHEN Haowen, DUAN Shuxuan, XIAO Feng, WANG Xiaoshuang, WU Jianjun (6226)
<b>Degradation of decabromodiphenyl ether in water by UV/SO<sub>3</sub><sup>2-</sup> system</b>	····· CANG Yan, YU Na, LI Ji, YANG Jingxin, SONG Wei (6233)
<b>Influence of seawater micro-flocculation pretreatment on ultrafiltration membrane flux</b>	····· ZHAO Jin, WANG Wenhua, WANG Xunliang, JIANG Tianxiang, WANG Jing, ZHANG Yushan (6240)
<b>Distribution change of DO and its influence on organic and nitrogen removal in membrane aeration bioreactor</b>	····· LIU Qi, CHENG Fang, ZHANG Wenli, ZHANG Jingli, YANG Nanyang, FAN Xing (6246)
<b>Electrochemical characterization of dual cathode MFC during start-up phase</b>	····· ZHANG Jianmin, WEI Jiaqi, CUI Xinchui, XUE Yao (6252)
<b>Characteristics of extracellular polymeric substances of pulse aerated activated sludge and its relationships with nitrogen removal efficiency</b>	····· QIN Danning, JIANG Weili, CHEN Jiao, CHENG Panpan, MA Chenhuang, GAO Huan, ZHANG Yong (6259)
<b>Removal and resources of heavy metals in high concentration industrial wastewater based on decompression-dehydration-drying technology</b>	····· WU Xiaofang, SHEN Xiaoxue, ZOU Zhendong, LI Ruili, FAN Yi, QIU Guoyu, NAKAMURA Kazuhiko, GAO Jian (6266)
<b>Combination of activated sludge adsorption and anaerobic fermentation to recycle wastewater carbon source</b>	····· WANG Yuanyuan, LIU He, FU Bo, WANG Ling, LIU Hongbo (6276)
<b>Effect evaluation and mechanism of phosphorus removal using oxidation-Na<sup>+</sup> doped sediment from malodorous river</b>	····· CHEN Xing, LU Ying, HUANG Wei (6282)
<b>Potassium alum sustained-release tablets for treatment of decentralized rural domestic sewage</b>	··· WANG Lei, HUANG Yong, GUO Zhaohai (6290)
<b>Adsorption of Cu<sup>2+</sup> onto modified activated carbon prepared from walnut peel</b>	····· LIU Xiaohong, LI Tiantian, DENG Qianqian (6295)
<b>Synthesis and characterization of organic-inorganic hybrid flocculant PAM-PAFC</b>	····· JIANG Shaojie, WANG Xinlei (6301)
<b>Multivariate statistical analysis of temporal-spatial variations in ground water quality of urban riverways</b>	····· LI Haiyun, LIANG Ji, GUO Xiaoyu (6309)
<b>Treatment of NO<sub>x</sub> in simulation exhaust by multi-needle to plate pulse discharge</b>	····· DONG Bingyan, HE Junwen, ZHANG Yulu, SUN Yu, GAN Qingqing (6321)
<b>Influence of calcium concentration on CO<sub>2</sub> fixation with bio-calcification of <i>Microcystis flos-aquae</i></b>	····· LI Xiaomin, LUO Kemeng, HE Feng, YANG Zhenni, FAN Wenhong (6327)
<b>Optimization for Fe-Mn catalyzed sulfite oxidation in flue gas desulfurization</b>	····· JIANG Luman, ZHOU Zhen, YU Jie, HU Dalong (6332)
<b>Adsorption performance of magnetic silver-loaded filter material on Hg<sup>0</sup> from coal combustion flue gas</b>	····· ZHAO Yan, ZHOU Fashan, DIAO Yongfa, LIU Jing, FU Yuemei (6339)
<b>Purification of refractory pyridine waste gas by anoxic denitrification</b>	····· ZHUO Meng, HE Chengda, LIU Weihui (6345)
<b>Mass transfer and thermodynamic analysis on NO oxidation by K<sub>2</sub>S<sub>2</sub>O<sub>8</sub></b>	··· HUANG Hao, HU Hui, TAO Gongkai, XIE Jing, RUAN Changchao (6351)
<b>Numerical simulation of catalytic performance of diesel engine integrated after-treatment system</b>	····· TAN Ligang, LIU Shaochun, LIU Xiangling, GUO Yage, FENG Pengfei, YANG Shubao (6359)
<b>Pollution characteristics, morphology and mineral composition of indoor and outdoor PM<sub>2.5</sub></b>	····· ZHANG Yongyong, JIA Ying, LI Ming, HOU Li'an (6366)
<b>Characteristics of chemical components of PM<sub>2.5</sub> and its seasonal variations in Chongqing urban area</b>	····· YU Jiayan, WANG Jun, XU Liping, LI Li, LIU Ruiling, LIU Jia (6372)
<b>Statistical analysis of heavy air pollution process in Chongqing</b>	····· LI Li, XU Liping, YU Jiayan, LIU Ruiling (6379)

- Application of fuzzy comprehensive assessment grounded on double weighing factors in assessment of Nanjing air quality** ..... LI Cheng, LI Kunquan (6386)
- Monitoring and cluster analysis of particulate matters in an industrial city in different seasons** ..... DING Shuo, SHEN Shiliang, HUANG Yuandong (6393)
- Promotion mechanism of Lignocellulose ethanol vinasse addition on mixed anaerobic fermentation of rice straw and swine manure** ..... AI Ping, ZHANG Jitao, XI Jiang, SHEN Ziyang, YANG Zhihao, LU Yi, HU Chai (6404)
- Leaching gallium from Bayer red mud by acid process and removing fluoride from solution with leaching residues** ..... LU Fanghai, XIAO Tangfu, LIANG Jie, WU Yujiao, HUANG Fang, LONG Qiong, XIAO Lihua, LIU Bing, ZHOU Dengfeng, ZENG Ying (6415)
- Investigation of pyrolysis characteristics of oil-contaminated drill cuttings** ..... ZHOU Hao, WANG Genbao, LI Meng, ZHANG Lei, CHEN Shiyi, XIANG Wenguo (6421)
- Effects of maturity and N variation during aerobic composting of fermentation residue by adding with different strains composition** ..... WANG Shouhong, XU Rong, ZHU Lingyu, KOU Xiangming, WANG Xiaozhi, WANG Guiliang, HAN Guangming, BI Jianhua, TANG Hejun, ZHANG Jiahong (6429)
- Co-thermal-disposal of sewage sludge, leather scraps and coal** ..... QIAN Xiaofeng, WANG Xiaohang, LU Peng, WANG Dongke, HE Shiyu, HUANG Qunxing (6437)
- Mechanical properties and ecological risk of degradable composites based on twice modified wheat straw fiber and PLA, PPC or PBAT** ..... ZHOU Xin, HAN Yaoxia, DENG Shihuai, WANG Lilin, ZHANG Jing, ZHANG Lanyue, CHEN Hongchun, LI Jinyang, LI Yao, ZHANG Yaqi, CHEN Tingwei (6443)
- Degradation of organochlorine pesticide by laccase-producing *Pycnoporus sanguineus* in process of urban sludge composting** ..... SHEN Yanping, WANG Qiaoli, HU Sheng, LI Xuanzhen, LI Cong (6450)
- Effect of pulverized coal on sintering expansion behavior of red mud ceramsite** ..... XIE Wuming, ZHANG Wenzhi, Zhou Fengping, LI Jun, MA Xiashen, ZHANG Ning, GU Ge, QIU Xiaosheng, ZHONG Mingzhao (6458)
- Effect of lipase on biogas production from kitchen waste in anaerobic digestion** ..... LIANG Jingjing, SU Hui (6465)
- Effect of initial pH and temperature on biohydrogen production from food waste by anaerobic fermentation** ..... WANG Yong, REN Lianhai, ZHAO Bing, JIA Xuan (6470)
- Correlation between molecular structure of polymer additives used for drilling fluid and environmental influence** ..... XIE Shuixiang, DENG Hao, SUN Jingwen, REN Wen, ZHANG Mingdong, LIU Xiaohui (6477)
- Greenhouse gas (GHG) emissions and its influencing factors in Beijing municipal solid waste incineration power plant** ..... WANG Long, LI Ying (6490)
- Effect of freeze-thaw cycles on stabilizing arsenic contaminated soil by iron-containing materials** ..... XU Wenyi, LI Min, HUANG Minsheng, MA Tongtong (6497)
- Influence of pyrolysis conditions on properties of tea residue biochar and its passivation effect in Cd contaminated soil** ..... LI Changxin, LYU Yanfeng, ZHANG Mengdi, JIANG Rong, FENG Yingli, YANG Zhanbiao (6504)
- Effect of amendments on remediation of heavy metal compound contaminated soil** ..... XU Jianchen, LI Ye, XIAO Huafeng, LIU Dongbin, LI Bo (6511)
- Degradation of dibutyl phthalate in soil by microwave-assisted oxidation** ..... ZHENG Youping, LIN Qintie, LUO Haoyu, PENG Shengpeng, LI Kun, JIANG Jieru (6518)
- Effect of loam interlayer on benzene and Br<sup>-</sup> breakthrough vadose zone under constant flow** ..... GUO Leilei, XU Mo, WANG Lu, LI Qingshan, KANG Xiaobing (6524)
- Ecological ditches and constructed wetland system processing thiamethoxam on farmland drainage** ..... LI Benhang, LI Zenghui, QU Dan, SUN Dezhi (6532)
- Simulation experiment of phytoplankton growth induced by flow velocity in rivers replenished with reclaimed water** ..... WEI Zhen, JIA Haifeng, JIANG Qigui, MENG Dejuan, YANG Shuyuan (6540)
- Soil remediation engineering instances of some chromium residue contaminated sites in Yunnan** ..... MENG Xiangqi, XU Chao, YANG Yuanqiang, LI Shupeng, ZHU Hongwei, ZHOU Qiang (6547)
- Principle and design of flexible bag-breaker for municipal solid waste sorting line** ..... GAO Genshu, REN Yue, LIU Zhongming, LIU Shufen (6554)