

# 学术研究篇

## 目 次

### 论述与研究

- 机械蒸汽再压缩技术处理反渗透浓水的中试研究 ..... 张金鸿,侯 霖,李海芳,等(1)  
折流式 BAF/稳定塘工艺处理小城镇污水的效果分析 ..... 翟 俊,阮 雨,占 宏,等(5)  
城市污水的低氧短程脱氮中试研究 ..... 郑 舜,王荣昌,司书鹏,等(9)  
PVDF 压力式膜组件深度处理市政污水的中试 ..... 刘晓东,段 娜,王大新,等(14)  
超滤/反渗透工艺用于化工废水提标改造的处理效果 ..... 姜伟立,邹 敏,蒋永伟,等(17)  
UASB 反应器培养厌氧氨氧化菌的试验研究 ..... 彭绪亚,李治阳,王 璐,等(20)  
HA-A/A-MCO 污泥减量工艺的微生物与污泥特性 ..... 唐良建,曾 曜,左 宁(25)  
序批式生物膜法处理微污染河水的效果 ..... 龚灵潇,朱如龙,李 军,等(30)  
中空纤维膜生物反应器去除地下水中硝酸盐的效能 ..... 张彦浩,刘建广,郭忠云,等(33)  
表面改性碳纳米管粉体在微生物燃料电池中的应用 ..... 王慧勇,梁 鹏,黄 霞(37)

### 技术总结

- 基于高阶累积量的供水管道检漏系统研究 ..... 李小朋,辛云宏,刘丽丽,等(41)  
臭氧/活性炭工艺深度处理微污染水源水的中试 ..... 李思敏,赵南南,李志广(45)  
PAC/超滤工艺处理黄河原水的 GC/MS 分析 ..... 杨忆新,刘文君(48)  
采用 Visual Modflow 研究机场场区地下水渗流场 ..... 周 奇,岑国平,冀 鹏,等(51)  
加氯消毒对含盐二级出水及管道系统的影响 ..... 尹 军,翟黎明(55)  
异位/原位联合生物修复技术处理受污染河水 ..... 焦 燕,金文标,赵庆良,等(59)  
低氨氮生活污水好氧亚硝化技术研究 ..... 王宽伦,李相昆,张 杰(63)  
厌氧系统的快速启动研究 ..... 陈 前,顾卫兵,杨春和(66)  
垂直流人工湿地处理生活污水的影响因素分析 ..... 胡小兵,鲍 静,周 俊(69)  
颗粒活性炭加速厌氧反应器污泥颗粒化的研究 ..... 王 冰,韩洪军,刘 硕,等(72)  
填埋方式对污泥填埋稳定性的影响 ..... 张云霞,王 瑞,王立彤,等(75)  
钢管制造业废液的处理方法研究 ..... 崔金琪(78)  
BAF 反冲洗过程的优化控制分析 ..... 闫立龙,王兴戬,李伟光,等(80)  
提高 UNITANK 工艺去除氨氮效能的研究 ..... 陈婉如,张 勇,崔松阳(84)  
IC 反应器在抗生素废水处理中的调试运行研究 ..... 夏 怡(88)  
混凝沉淀/水解酸化/接触氧化处理水产品加工废水 ..... 刘志强,毛友同,杨 超,等(91)  
曝气生物滤池对印花废水的脱氮效果研究 ..... 李永霞,黄瑞敏,杨署军,等(94)  
生物增效法和生物铁法在炼油废水处理中的应用 ..... 王国栋,刘书琴,倪福功,等(98)

### 污泥处理与处置

- 堆肥过程中挥发性有机物的产生与释放 ..... 沈玉君,高 定,陈同斌,等(101)  
堆肥过程中臭气的产生和释放过程研究进展 ..... 沈玉君,陈同斌,刘洪涛,等(104)

技术交流:(4) 信息:(50) 会讯:(54) 更正:(71) 版权声明:(87) 企业动态:(97)

给排水专利:(J1、J2) 工程信息:(J3、J4)

## ACADEMIC RESEARCH EDITION

### CONTENTS

#### THESES AND RESEARCHES

- Pilot Study on Mechanical Vapor Recompression Technology for Treatment of Concentrated Water from Reverse Osmosis Process ..... ZHANG Jin-hong, et al. (1)
- Performance of Baffled Biological Aerated Filter/Stabilization Pond for Domestic Sewage Treatment in Small Towns ..... ZHAI Jun, et al. (5)
- Pilot Study on Shortcut Nitrogen Removal from Municipal Wastewater under Low Oxygen Concentration Condition ..... ZHENG Xiang, et al. (9)
- Pilot Test of PVDF Pressurized Module for Advanced Treatment of Municipal Wastewater ..... LIU Xiao-dong, et al. (14)
- Effect of Ultrafiltration/Reverse Osmosis on Upgrading Chemical Wastewater Treatment Process ..... JIANG Wei-li, et al. (17)
- Study on Cultivation of Anammox Bacteria in UASB Reactor ..... PENG Xu-ya, et al. (20)
- Characteristics of Microbe and Sludge in HA-A/A-MCO Sludge Reduction Process ..... TANG Liang-jian, et al. (25)
- Treatment of Micro-polluted River Water in Sequencing Batch Biofilm Reactor ..... GONG Ling-xiao, et al. (30)
- Efficiency of Hollow Fiber Membrane Biofilm Reactor for Removing Nitrate from Contaminated Groundwater ..... ZHANG Yan-hao, et al. (33)
- Application of Surface-modified Carbon Nanotubes Powder in Microbial Fuel Cell ..... WANG Hui-yong, et al. (37)

#### TECHNOLOGY SUMMARY

- Research on Leakage Detection System for Water Supply Pipeline Based on Higher-order Cumulants ..... LI Xiao-peng, et al. (41)
- Pilot Study on Advanced Treatment of Micro-polluted Source Water by O<sub>3</sub>/GAC Process ..... LI Si-min, et al. (45)
- GC/MS Analysis of Yellow River Raw Water Treated by PAC/Ultrafiltration Process ..... YANG Yi-xin, et al. (48)
- Study on Groundwater Seepage Field in Airfield with Visual Modflow ..... ZHOU Qi, et al. (51)
- Effect of Chlorination on Saline Secondary Effluent and Pipe System ..... YIN Jun, et al. (55)
- Treatment of Polluted River Water by Ex-situ and In-situ Bioremediation ..... JIAO Yan, et al. (59)
- Research on Aerobic Nitrosation of Domestic Sewage with Low Ammonia Nitrogen ..... WANG Kuan-lun, et al. (63)
- Study on Rapid Start-up Conditions of Anaerobic System ..... CHEN Qian, et al. (66)
- Analysis of Affecting Factors in Treatment of Domestic Sewage with Vertical Flow Constructed Wetland ..... HU Xiao-bing, et al. (69)
- Speeding up Sludge Granulation in Anaerobic Reactor by Adding Granular Activated Carbon ..... WANG Bing, et al. (72)
- Influence of Landfill Modes on Stabilization of Sludge Landfill ..... ZHANG Yun-xia, et al. (75)
- Study on Treatment Method of Wastewater from Steel Pipe Manufacturing ..... CUI Jin-qi (78)
- Analysis on Optimization Control of BAF Backwash ..... YAN Li-long, et al. (80)
- Measures for Improving Ammonia Nitrogen Removal Efficiency by UNITANK Process ..... CHEN Wan-ru, et al. (84)
- Commissioning and Operation of IC Reactor for Treatment of Antibiotic Wastewater ..... XIA Yi (88)
- Treatment of Aquatic Product Processing Wastewater by Coagulation Sedimentation/Hydrolysis Acidification/Contact Oxidation Process ..... LIU Zhi-qiang, et al. (91)
- Study on Removal of Nitrogen from Textile Printing Wastewater by Biological Aerated Filter ..... LI Yong-xia, et al. (94)
- Application of Bioaugmentation Process and Bioferric Process to Oil-refinery Wastewater Treatment ..... WANG Guo-dong, et al. (98)

#### SLUDGE TREATMENT AND DISPOSAL

- Production and Emission of Volatile Organic Compounds during Composting ..... SHEN Yu-jun, et al. (101)
- Research Progress in Odor Production and Emission from Composting ..... SHEN Yu-jun, et al. (104)