



中国科技核心期刊
华东地区优秀期刊

2021
总第40卷
12

中国标准连 : ISSN 1009-0177
续出版物号 : CN 31-1513/TQ
邮发代码 : 4-652
投稿网址 : zsjc.cbpt.cnki.net

净水技术[®]

Water Purification Technology

地表水除硬形成结晶颗粒形貌图

[大家之言]

《净水厂用煤质颗粒活性炭选择、使用及更换技术规范》解读

[封面文章]

结晶软化技术对地表水中总硬度的去除效能及应用

[全年目次]

2021年全年目次 (I ~ XX)

[特别鸣谢]

2021年年度审稿专家 (J1 ~ J2)

ISSN 1009-0177

主管 : 上海市科学技术协会

主办 : 上海市净水技术学会

协办 : 上海城市水资源开发利用国家工程中心有限公司

同济大学环境科学与工程学院



12>

9 771009 017214
万方数据



推荐/自荐审稿人



微信订阅号 sh_jsjs

大家之言

《净水厂用煤质颗粒活性炭选择、使用及更换技术规范》解读

顾晨 ---- 01

净水技术前沿与热点综述

基于羟基自由基或硫酸根自由基的高级氧化技术中溴酸盐形成与控制研究进展
紫外耦合高级氧化工艺处理有机废水回用水的机理和研究进展

安琦, 刘建广----- 05
马兰, 刘建广----- 12

水源与饮用水保障

大肠埃希氏菌荧光定量PCR法与酶底物法相关性分析
生活饮用水水样保存与运输条件对菌落总数检测的影响
北方某市农村饮用水水质状况及分布特征分析
超滤/纳滤双膜技术提高农村集中式供水水质
结晶软化技术对地表水中总硬度的去除效能及应用
供水管网安全运行智能化管理技术体系研究及应用

路晓锋, 吴凡----- 20
张艳芬, 李红岩, 郑蓓, 等 ----- 26
李洁, 李红岩, 于志勇, 等 ----- 32
陈庆华, 史文悦, 张翠翠, 等 ----- 38
李长庚, 刘成, 武海霞, 等 ----- 44
周文, 潘良波, 李倩楠, 等 ----- 51

污水处理与回用

半干污泥流量计量方法与装置的研究及应用
无锡市农村生活污水治理现状问题与对策
MBBR应用于污水厂提量改造及其能耗药耗分析
AO两级生物滤池的同步硝化反硝化脱氮试验

张帅领, 邵钦, 林莉峰 ----- 58
贺琛, 周国婧, 张周, 等 ----- 63
韩锡友, 黄子进, 方金强, 等 ----- 69
李国超, 王文华, 王悦, 等 ----- 78

其他水系统研究与应用

真空膜蒸馏-反渗透联用技术处理尿液废水试验
钢渣对水体黑臭底泥磷释放的控制效果
生态修复技术在上海市黑臭水体治理工程中的应用进展
基于水力模拟的排涝泵站设计规模复核评估
某电厂反渗透系统压差上升速度过快原因分析及应对措施

刘铮, 丁平, 王剑, 等 ----- 84
鲁苇, 樊杰, 邵显涛, 等 ----- 89
刘敏, 左倬, 王嘉伟 ----- 97
谭锦欣, 林健新, 劳钊明, 等 ----- 107
高凯楠, 冯向东 ----- 111

工业水处理

碱性条件下的高频超声降解全氟辛酸
MBR工艺对高硝酸盐己二酸废水脱氮效果的试验
工业园区污水厂的处理工艺优化

顾玉蓉, 陈鑫烨, 董紫君, 等 ----- 116
王小玲 ----- 122
刘胜利 ----- 127

城镇给排水工程设计案例专栏

洋口港临港工业区污水厂改造工程设计及运行效果分析
唐山市某污水处理厂水质高标示指标改造设计案例
地下气浮与生物过滤组合工艺处理高标示景观水设计案例

沈孝辉, 蒋永伟, 郭方峥, 等 ----- 132
朱洁, 胡维杰, 周娟娟 ----- 139
吴国荣 ----- 147

“清时捷”供排水企业运行及管理成果专栏

穿孔旋流反应池改造为网格反应池的运行优化
水厂水泵房能效监控平台在优化供水调度中的应用
CO₂-石灰联用技术在水厂低硬度原水处理中的应用及成效

刘倩, 董志锋 ----- 156
崔昱, 邹琳, 张明, 等 ----- 162
李婷, 王长平, 黄婷婷, 等 ----- 170

CONTENTS

2021 No.12 Vol. 40 Serial No. 242

SUMMIT FORUM

- Interpretation of Specifications for Selection, Use and Replacement of Granular Activated Carbon from Coal for Drinking Water Treatment Plants GU Chen ----- 01

FRONTIER OF WATER PURIFICATION TECHNOLOGY AND HOTSPOT OVERVIEW

- Research Progress of Bromate Formation and Control in AOPs Based on Hydroxyl Radical or Sulfate Radical AN Qi, LIU Jianguang ----- 05
Research Progress and Mechanism of UV-Coupled AOPs for Reclaimed Water Treatment of Organic Waste-water MA Lan, LIU Jianguang ----- 12

GUARANTEE FOR WATER SOURCES AND DRINKING WATER

- Correlation Analysis of *Escherichia coli* Detection between Fluorescence Quantitative PCR and Enzyme Substrate Technique LU Xiaofeng, WU Fan ----- 20
Influence of Conditions for Preservation and Transportation of Drinking Water Samples on Determination of Total Count of Bacteria Colonies ZHANG Yanfen, LI Hongyan, ZHENG Bei, et al. ----- 26
Analysis of Drinking Water Quality and Distribution Characteristics in Rural Area of a Northern City LI Jie, LI Hongyan, YU Zhiyong, et al. ----- 32
Improvement of Rural Water Quality for Centralized Water Supply System by UF/UF Membrane Processes CHEN Qinghua, SHI Wenyue , ZHANG Cuicui, et al. ----- 38
Efficiency and Application of Crystal Softening Technology in Total Hardness Removal in Surface Water LI Changgeng, LIU Cheng, WU Haixia, et al. ----- 44
Research and Application of Safety-Operation and Intelligent Management Technology System for Water Supply Pipelines Network ZHOU Wen, PAN Liangbo, LI Qiannan, et al. ----- 51

WASTEWATER TREATMENT AND REUSE

- Research and Application of Flow Measurement Method and Device for Semi-Dry Sludge ZHANG Shuailing, SHAO Qin, LIN Lifeng ----- 58
Existing Problems and Countermeasures of Rural Domestic Sewage Treatment in Wuxi City HE Chen, ZHOU Guojing, ZHANG Zhou, et al. ----- 63
Application of MBBR in WWTP Reconstruction for Capacity Expansion and Analysis of Energy and Chemical Consumption HAN Xiyou, HUANG Zijin, FANG Jinjiang, et al. ----- 69
Experiment of Simultaneous Nitrification and Denitrification for Nitrogen Removal in Two-Stage AO Biological Filter LI Guochao, WANG Wenhua, WANG Yue, et al. ----- 78

RESEARCH AND APPLICATION OF OTHER WATER SYSTEMS

- Experiment of Urine Wastewater Treatment by Integrated Technology of Vacuum Membrane Distillation-Reverse Osmosis(VMD-RO) LIU Zheng, DING Ping, WANG Jian, et al. ----- 84
Effect of Steel Slag on Phosphorus Release Control in Black and Odorous Sediment of Water Body LU Wei, FAN Jie, SHAO Xiantao, et al. ----- 89
Application Progress of Ecological Restoration Technology for Remediation Project of Black and Odorous Water Body in Shanghai City LIU Min, ZUO Zhuo, WANG Jiawei ----- 97
Validation and Evaluation of Design Scale for Drainage Pumping Station Based on Hydraulic Simulation TAN Jinxin, LIN Jianxin, LAO Zhaoming, et al. ----- 107
Analysis and Countermeasures of the Rapid Rise of Differential Pressure in Reverse Osmosis System of a Power Plant GAO Kainan, FENG Xiangdong ----- 111

INDUSTRIAL WATER TREATMENT

- High Frequency Ultrasonic Degradation of Perfluorooctanoic Acid under Alkaline Condition GU Yurong, CHEN Xinye, DONG Zijun, et al. ----- 116
Denitrification of High Nitrate Adipic Acid Wastewater with MBR Process WANG Xiaoling ----- 122
Optimization of Wastewater Treatment Processes in WWTP of Industrial Park LIU Shengli ----- 127

COLUMN OF DESIGN CASE OF WATER SUPPLY AND DRAINAGE ENGINEERING

- Design and Operation Effect Analysis of WWTP Reconstruction Project in Industrial Zone of Yangkou Port SHEN Xiaohui, JIANG Yongwei, GUO Fangzheng, et al. ----- 132
Design Case of Upgrading and Reconstruction of High Standard WWTP in Tangshan City ZHU Jie, HU Weijie, ZHOU Juanjuan ----- 139
Design Case on Combined Process of Underground Floatation and Biological Filtration for Landscape Water Treatment WU Guorong ----- 147

SINSCHE ACHIEVEMENTS OF OPERATION AND MANAGEMENT PROGRESS OF WATER SUPPLY AND DRAINAGE ENTERPRISE

- Operation Optimization of Grid Reactor Reconstructed by Perforated Cyclone Reactor LIU Qian, DONG Zhifeng ----- 156
Application of Energy Efficiency Monitoring Platform of Secondary Pumping Station in Optimization of Water Supply Distribution Control CUI Yu, ZOU Lin, ZHANG Ming, et al. ----- 162
Application and Performance of Combined Process of CO₂-Lime for Low-Hardness Raw Water Treatment in WTP LI Ting, WANG Changping, HUANG Tingting, et al. ----- 170