



中国科技核心期刊
华东地区优秀期刊

2021
总第40卷
10

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 : zsjt.cbpt.cnki.net

净水技术

Water Purification Technology

蒙脱石 (001) 面俯视图

[大家之言]

城乡统筹背景下农村供水面临的挑战与解决对策

[封面文章]

蒙脱石及其衍生物吸附水体中二价镉的研究进展

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

上海城市水资源开发利用国家工程中心有限公司

协办 : 上海市政工程设计研究总院 (集团) 有限公司

同济大学环境科学与工程学院



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

城乡统筹背景下农村供水面临的挑战与解决对策

赵志伟, 梁志杰, 李莉-----01

净水技术前沿与热点综述

砷、氟污染地下水净化技术进展
饮用水处理技术去除微塑料的效果及进展
饮用水中溴酸盐的生成及控制进展
蒙脱石及其衍生物吸附水体中二价镉的研究进展

周振, 马文, 方小军, 等----07
王赛, 张岚, 陈永艳, 等----20
沈杰, 熊安越, 关小红, 等----26
杜佳, 刘军龙, 樊海, 等----36

“水体污染控制与治理”科技重大专项成果专栏

折流板水车驱动生物转盘水力流态及启动挂膜试验

胡成琼, 汪思宇, 吕锡武-----43

水源与饮用水保障

后置臭氧-下向流活性炭工艺中臭氧投加量的中试优化
水厂排泥水处理系统全自动运行方法
供水管网DMA优化分区设计方案
分区计量体系下的供水管网建模节点用水量分配
降水及人类活动对北京市平原区地下水位变化影响分析

武珉辉, 钱庆玲, 刘爽, 等----49
饶明朋, 冯冰妍, 潘铁军, 等----56
刘子叶, 谢予婕, 李树平, 等----62
陈欣然, 黄强, 陈志辉, 等----70
梁灵君, 刘翠珠-----78

污水处理与回用

AO与后置生物滤池工艺在村镇污水处理中的应用
生物膜耦合工艺在污水处理中的应用
国内地下式污水处理厂的发展现状和关键技术分析
不同水平低水量运行对AAO工艺的影响
城市水系统关键环节碳排放影响因素分析及减排对策建议

李媛, 孙捷, 张永来, 等----86
蒋维卿, 么兴荣, 王帆, 等----94
杨一烽, 杜炯, 张欣-----101
韩小蒙, 白海梅, 李明杰, 等---107
郭恰, 陈广, 马艳 -----113

其他水系统研究与应用

应用集对分析数学模型对给水管网综合水质的模拟分析
工艺参数对CRI削减雨水径流中氮磷污染物的影响
养殖固废再利用的高效磷吸附剂制备与作用机制
防汛泵站放江污染削减对策探索
基于分级需求的乡村厕所建造技术

王丹宁, 赵洪宾, 袁渊, 等---118
王沐晴, 卞兆勇, 张丹丹, 等---122
李广英, 杜敏洁, 谈成英, 等---131
顾一鸣, 马艳 -----138
周学翀, 刘永旺, 赵树旗, 等---144

城镇给排水工程设计案例专栏

长距离输水系统非满管运行时的充水对策措施
超滤反渗透组合工艺在水厂硝酸盐深度处理中的工程应用
某工业园区污水处理厂升级改造工程案例分析

刘伟 -----150
李洁 -----155
岳利涛, 郝杨, 谭朝洪, 等---160

“清时捷”供排水企业运行及管理成果专栏

水厂处理工艺中不同设计的实践效果评估——以锡东水厂为例
城镇污水处理厂强化生物脱氮除磷的工艺优化探索与应用

陈燚, 笛跃武, 袁君, 等---167
袁飞, 马一行, 卫鸣志 -----173

勘误

-----172

CONTENTS

2021 No.10 Vol. 40 Serial No. 239

SUMMIT FORUM

- Challenges and Solutions to Rural Water Supply under the Background of Urban and Rural Overall Planning
ZHAO Zhiwei, LIANG Zhijie, LI Li ----- 01

FRONTIER OF WATER PURIFICATION TECHNOLOGY AND HOTSPOT OVERVIEW

- Advances in Purification Technology for Groundwater Polluted by Arsenic and Fluorine
ZHOU Zhen, MA Wen, FANG Xiaojun, et al. ----- 07
Effect and Progress of Microplastics Removal in Drinking Water Treatment Process
WANG Sai, ZHANG Lan, CHEN Yongyan, et al. ----- 20
Progress of Formation and Control of Bromate in Drinking Water
SHEN Jie, XIONG Anyue, GUAN Xiaohong, et al. ----- 26
Advances in Research of Adsorption of Cd (II) in Water by Montmorillonite and the Derivatives
DU Jia, LIU Junlong, FAN Hai, et al. ----- 36

ACHIEVEMENT OF MAJOR SCIENCE AND TECHNOLOGY PROGRAM OF WATER POLLUTION CONTROL AND TREATMENT

- Experiment of Hydraulic Flow Pattern and Biofilm Formation Start-Up for the Waterwheel Driving Baffled Rotating Biological Contactor
HU Chengqiong, WANG Siyu, LÜ Xiwu ----- 43

GUARANTEE FOR WATER SOURCES AND DRINKING WATER

- Pilot-Scale Optimization of Ozone Dosage in Rear Ozone-Downflow Activated Carbon Process
WU Minhui, QIAN Qingling, LIU Shuang, et al. ----- 49
Full-Automatic Operation Method for Sludge Wastewater Treatment System of WTP
RAO Mingming, FENG Bingyan, PAN Tiejun, et al. ----- 56
Scheme of Optimized DMA Design for Water Supply Pipelines Network
LIU Ziye, XIE Yujie, LI Shuping, et al. ----- 62
Node-Flow Distribution in Modeling of Water Supply Pipelines Network under the System of District Metering Area
CHEN Xinran, HUANG Qiang, CHEN Zhihui, et al. ----- 70
Influence of Precipitation and Human Activities on Groundwater Level Change in Plain Area of Beijing City
LIANG Lingjun, LIU Cuizhu ----- 78

WASTEWATER TREATMENT AND REUSE

- Application of Anoxic-Aerobic and Post-Biofilter Processes in Town Sewage Treatment
LI Yuan, SUN Jie, ZHANG Yonglai, et al. ----- 86
Application of Biofilm Coupling Processes in Wastewater Treatment
JIANG Weiqing, YAO Xingrong, WAN Fan, et al. ----- 94
Development Status and Key Technology Analysis of Underground Wastewater Treatment Plants (UWWTPs) at Home
YANG Yifeng, DU Jiong, ZHANG Xin ----- 101
Influence of Low Flow Rate Operation with Different Levels on AAO Reactors
HAN Xiaomeng, BAI Haimei, LI Mingjie, et al. ----- 107
Analysis on Influencing Factors of Carbon Emission in Key Processes of Urban Water System and Suggestions for Emission Reduction
GUO Qia, CHEN Guang, MA Yan ----- 113

RESEARCH AND APPLICATION OF OTHER WATER SYSTEMS

- Simulation Analysis for Application of Set Pair Mathematic Model in Integrated Water Quality of Water Supply Distribution Networks
WANG Danning, ZHAO Hongbin, YUAN Yuan, et al. ----- 118
Effect of Technological Parameters on Nitrogen and Phosphorus Pollutants Reduction in Stormwater Runoff by CRI Process
WANG Muqing, BIAN Zhao Yong, ZHANG Dandan, et al. ----- 122
Preparation and Mechanism of Efficient Phosphorus Adsorbent for Reuse of Bio-Solid Wastes in Breeding Industry
LI Guangying, DU Minjie, TAN Chengying, et al. ----- 131
Discussion on the Countermeasures of Discharge Pollution Reduction in Stormwater Pumping Station
GU Yiming, MA Yan ----- 138
Technology of Rural Toilets Construction Based on Classified Demands
ZHOU Xuechong, LIU Yongwang, ZHAO Shuqi, et al. ----- 144

COLUMN OF DESIGN CASE OF WATER SUPPLY AND DRAINAGE ENGINEERING

- Countermeasures of Water Filling for Partially Filled Pipelines in Operation of Long-Distance Water Diversion System
LIU Wei ----- 150
Engineering Application of Advanced Treatment for Nitrate Removal in Ultrafiltration-Reverse Osmosis Processes in WTP
LI Jie ----- 155
Case Study of Upgrading and Reconstruction Project of Wastewater Treatment Plant in an Industrial Park
YUE Litao, HAO Yang, TAN Chaohong, et al. ----- 160

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

- Practical Effect Assessment of Different Design Proposal for Water Treatment Processes—Case of Xidong WTP
CHEN Yi, DA Yuewu, YUAN Jun, et al. ----- 167
Exploration and Application of Process Optimization for Enhanced Biological Nitrogen and Phosphorus Removal in Municipal Sewage Treatment Plant
YUAN Fei, MA Yixing, WEI Mingzhi ----- 173