



中国科技核心期刊
华东地区优秀期刊

2021

总第40卷

04

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 : zsjz.cbpt.cnki.net

净水技术[®]

Water Purification Technology

输入层



预臭氧出水水质预测神经网络结构

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



推荐/自荐审稿人



微信订阅号 sh_jsjs

大家之言

农村生活污水处理系统的构建与评估

徐亚同----01

“水体污染控制与治理”科技重大专项成果专栏

形成针对太湖流域三类水源的综合解决方案实现典型和新型污染物的协同控制
采用金泽原水的水厂工艺集成优化关键技术研究成果
管网消毒、清洗、非开挖修复诊断与评估技术

楚文海, 杨 旭, 周子翀, 等 ---- 06
刘 爽, 王 锋, 武珉辉, 等 ---- 12
刘辛悦, 沈玉琼, 杨 坤, 等 ---- 18

水源与饮用水保障

天然沸石与纳滤组合工艺处理铜突发污染的应用
曝气生物滤池-超滤组合工艺处理高氨氮高有机物原水的效果
预氯化对原水管道含氮污染物转化及微生物群落结构的影响
次氯酸钠在长距离原水管中辅助减阻的工程效应
直接进样—超高效液相色谱—串联质谱法测定水中乙草胺
气相色谱法测定水中N-甲基甲酰胺

赵 炜, 武 睿, 郭卫鹏, 等 ---- 24
雷晓玲, 梁 寒, 杨 程, 等 ---- 31
周正协, 徐 巧, 何建荣, 等 ---- 36
朱 杰, 匡海鹰, 王海明, 等 ---- 43
黄允河, 吴春玲, 张立亚 ----- 49
何园缘, 张德明, 张凌云, 等 ---- 52

污水处理与回用

农村分散生活污水治理技术探讨
电化学除磷系统的工艺运行条件优化
降雨对污水处理厂进水污染物浓度的影响

孔 进, 张百德, 宋玉亮 ----- 56
周小燕, 时海建, 张 刚 ----- 62
李 晶----- 68

其他水系统研究与应用

淡化海水的矿化方法浅析
基于BP神经网络的臭氧精确投加控制系统
水厂臭氧发生器的经济运行分析
城镇居住小区人均污水污染物产生量测算方法与应用

王 琳, 张程贻, 牟春霞 ----- 73
沈恺乐, 李宗强 ----- 78
刘佩青, 姚 青, 沈 华, 等 ---- 85
刘战广 ----- 90

工业水处理

不锈钢在水处理设备中的应用及其酸洗废水处理工艺
聚硅酸铁钛絮凝剂制备及焦化废水混凝处理试验

刘国伟, 应琦琰, 邹 婷, 等 ---- 96
齐文豪, 王淑军, 王旭明, 等 ---- 101

城镇给排水工程设计案例专栏

水厂沉淀池改造方法与应用分析
双膜法在瑞源水厂处理氟化物和硫酸盐中的应用
MSBR工艺在污水处理厂中的应用——以江苏某污水处理厂为例
污水处理厂优于一级A提标改造工程设计案例——以深圳某污水处理厂为例
某购物中心餐饮废水处理设施改造工程

张家铭, 韩庆祥, 奚影影, 等 --- 106
奚影影, 韩庆祥, 张家铭, 等 --- 116
梁 郡----- 121
沙 超----- 127
刘晓晓, 赵明杰, 刘晓静, 等 --- 133

“清时捷”供排水企业运行及管理成果专栏

微污染水库原水的消毒副产物控制
高层住宅二次供水泵房噪声控制方法与应用实例

张华军, 李梓楠, 高海燕, 等 --- 139
何建荣, 周正协, 徐 巧, 等 --- 149

CONTENTS

2021 No. 4 Vol. 40 Serial No. 232

SUMMIT FORUM

Construction and Evaluation of Rural Domestic Wastewater Treatment System

XU Yatong ----- 01

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

Comprehensive Solutions for Three Types of Water Sources in Taihu Lake Basin Based on the Water Quality Characteristics: Realizing the Integrated Control of Typical and Emerging Pollutants

CHU Wenhai, YANG Xu, ZHOU Zichong, et al. ----- 06

Research Achievement of Key Technologies of Integrated and Optimized Process for WTPS with Jinze Raw Water

LIU Shuang, WANG Zheng, WU Minhui, et al. ----- 12

Diagnosis and Evaluation Technology of Disinfection, Cleaning and Trenchless Rehabilitation for Pipelines Network

LIU Xinyue, SHEN Yuqiong, YANG Kun, et al. ----- 18

GUARANTEE FOR WATER SOURCES AND DRINKING WATER

Application of Combined Process of Natural Zeolite and Nanofiltration for Treatment of Emergency Copper Pollution

ZHAO Yan, WU Rui, GUO Weipeng, et al. ----- 24

Effect of Combined Processes of Biological Aerated Filter and Ultrafiltration for Raw Water Treatment with High Ammonia Nitrogen and High Organics

LEI Xiaoling, LIANG Han, YANG Cheng, et al. ----- 31

Effects of Pre-Chlorination on Nitrogen Pollutant Transformation and Microbial Community Structures in Raw Water Distribution Pipelines

ZHOU Zhengxie, XU Qiao, HE Jianrong, et al. ----- 36

Engineering Effect of Sodium Hypochlorite on Drag Reduction Aid of Long-Distance Raw Water Pipelines

ZHU Jie, KUANG Haiying, WANG Haiming, et al. ----- 43

Determination of Acetochlor in Water by UPLC—MS/MS with Direct Injection

HUANG Yunhe, WU Chunling, ZHANG Liya ----- 49

Determination of N-Methylformamide (NMF) in Water by Gas Chromatography

HE Yuanyuan, ZHANG Deming, ZHANG Lingyun, et al. ----- 52

WASTEWATER TREATMENT AND REUSE

Discussion on Decentralized Domestic Sewage Treatment Technologies in Rural Areas

KONG Jin, ZHANG Baide, SONG Yuliang ----- 56

Optimization of Operational Conditions in Electrochemical Phosphate Removal System

ZHOU Xiaoyan, SHI Haijian, ZHANG Gang ----- 62

Effect of Rainfall on Influent Pollutants Concentration of Wastewater Treatment Plant

LI Jing ----- 68

RESEARCH AND APPLICATION OF OTHER WATER SYSTEMS

Brief Analysis on Methods of Mineralization for Desalinated Seawater

WANG Lin, ZHANG Chengyi, MU Chunxia ----- 73

Accurate Ozone Dosage Control System Based on BP Neural Network

SHEN Kaiyue, LI Zongqiang ----- 78

Economic Operation Analysis of Ozone Generator in Water Treatment Plant

LIU Peiqing, YAO Qing, SHEN Hua, et al. ----- 85

Measurement and Analysis of Domestic Wastewater Pollutant Production Per Capita in Urban Residential Quarters

LIU Zhanqiang ----- 90

INDUSTRIAL WATER TREATMENT

Application of Stainless Steel in Water Treatment Facilities and the Process of Pickling Wastewater Treatment

LIU Guowei, YING Qiyan, ZOU Ting, et al. ----- 96

Preparation of Polyferric Titanium Silicate Flocculant and the Experiment of Coagulation for Coking Wastewater Treatment

QI Wenhao, WANG Shujun, WANG Xuming, et al. ----- 101

COLUMN OF DESIGN CASE OF WATER SUPPLY AND DRAINAGE ENGINEERING

Reconstruction Methods and Application Analysis of Sedimentation Tank in Water Treatment Plant

ZHANG Jiaming, HAN Qingxiang, XI Yingying, et al. ----- 106

Application of Dual Membrane Process in Fluoride and Sulfate Removal in Ruiyuan Water Treatment Plant

XI Yingying, HAN Qingxiang, ZHANG Jiaming, et al. ----- 116

Application of MSBR Process in Design Case of a WWTP in Jiangsu Province

LIANG Jun ----- 121

Engineering Design and Discussion of a WWTP Better than First Grade A Standard Upgrading and Reconstruction Project in Shenzhen

SHA Chao ----- 127

Reconstruction Project of Catering Wastewater Treatment Facilities for a Shopping Center

LIU Xiaoxiao, ZHAO Mingjie, LIU Xiaojing, et al. ----- 133

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

Control of Disinfection By-Products in Micro-Polluted Raw Water of Reservoir

ZHANG Huajun, LI Zinan, GAO Haiyan, et al. ----- 139

Noise Control and Application of Secondary Water Supply Pump Room for High-Rise Buildings

HE Jianrong, ZHOU Zhengxie, XU Qiao, et al. ----- 149