



中国百强科技期刊

全国中文核心期刊



中国期刊方阵双效



QK2234097

# 中国给水排水

®

著名商标



微信号: cnww1985

(ZHONGGUO JISHUI PAISHUI)

CHINA WATER & WASTEWATER

第38卷第16期

2022年8月

广告



金科环境股份有限公司（科创板股票代码：688466）  
是专业从事水深度处理及污废水资源化的国家高新技术企业。公司围绕水处理膜应用，为客户提供投资、建设、运营、服务四个解决方案。

Model3 NF膜水厂  
30万吨级  
纳滤饮用水深度处理项目

ISSN 1000-4602

住房和城乡建设部 主管

主办 中国市政工程华北设计研究总院有限公司  
国家城市给水排水工程技术研究中心



16

9 771000 460224

万方数据



### 述评与讨论

- 碳中和视角下城市可持续排水系统构建及评估指标体系 ..... 刘智晓(1)
- 城市绿色排水系统内涵与规划评价技术研究 ..... 王金丽,孙永利,郑兴灿,郑华清,李 檬,葛铜岗(16)
- 污水系统提质增效对策研究:以H岛污水系统为例 ..... 凌耀忠,胡和平,万晶晶,廖 瑜(24)
- 污泥中的磷及回收技术研究进展 ..... 丁燕燕,于鸿宇,戴晓虎(29)
- 基于在线模型的供水管网优化调度系统设计 ..... 赵美玲,张巧珍,朱 俊,翟春丽(35)
- 高层住宅串联叠压供水方式节能分析 ..... 雷春元,康炳卿,刘 欢,张 震,刘永佳,王 彤,范正义(40)

### 设计经验

- 生物转盘最小转速和电机功率计算公式合理性探究 ..... 赵庆良,吕佳琦,李 洋,王美玲,董志华(47)
- 脱气池控制回流混合液溶解氧技术研究 ..... 刘雷斌,高守有,李 艺(52)
- 成都合作污水处理厂三期工程MP-MBR工艺设计 ..... 贺栋才,杨 婧,蒋 彬,袁绍春,薛 岳(57)
- 双碳目标下城镇污水处理厂的绿色市政理念应用实践 ..... 宋瑞平,陶如钧,李智行,周文明,赵立佳(61)
- BIM辅助污水处理厂协同设计及信息集成平台研究 ..... 袁明昕,韦海瑞,钟 炜,张 东(66)
- 白龙港污水厂污泥流化床干化系统设计与研究 ..... 张冬凌(71)
- 长距离暗挖综合管廊设计关键技术研究 ..... 强 健,高程鹏,康明睿(77)
- 超限高层建筑消防给水系统安全性能提升措施 ..... 杨 琦,贺煜华,林 玲(83)

### 工程实例

- 杭州城西污水厂提标改造实践与思考 ..... 虞佳庆,武丹丹,王海峰,韩 丽(89)
- 基于南方典型水质的奥贝尔氧化沟升级改造 ..... 王建利,陈 霖,魏寿廷,张 驰,陈志勇,石芳永(96)
- 基于海绵城市理念的无人值守泵、闸群智慧运管 ..... 李文强,何智才,陈志平,宋 旭,李家劲,黄沃林,郑理慎(101)
- 潭头河沿线排水口整治研究及实践 ..... 任珂君,楼少华,唐颖栋,邵宇航,包 晗,雷晓霞(106)
- 基于闸、泵联合调度的半封闭水体活水工程 ..... 肖许沐,陈德业,胡和平,游 胜(113)
- 常德城区泵站群智能管控系统构建研究 ..... 刘清华,张世能(117)
- 基于BIM和3D扫描的长距离曲线钢管内穿修复技术 ..... 龙桂华,欧阳枫,胡鹰志,黄春潮(125)
- 提质增效背景下水质水量平衡简易测算与实践 ..... 李 超,鲁 梅,刘绪为,袁胜楠,崔 诺,胡馨月(129)

### 分析与监测

- H<sub>2</sub>O<sub>2</sub>还原-重铬酸钾返滴定法测定次氯酸钠中氯酸盐 ..... 张祥琼,王严鑫,刘 波,张凌云,王 曦(135)

信息:2022年《中国给水排水》青年编委增选名单(95)



## REVIEWS AND DISCUSSIONS

- Establishment and Evaluation Index System of Urban Sustainable Drainage System from the Perspective of Carbon Neutrality ..... LIU Zhi-xiao( 1 )
- Study on the Connotation and Planning Evaluation Technology of Urban Green Drainage System ..... WANG Jin-li, *et al.* (16)
- Study on Solutions for Quality and Efficiency Improvement of Wastewater System—Taking H Island Wastewater System as an Example ..... LING Yao-zhong, *et al.* (24)
- Research Progress on Phosphorus in Sludge and Its Recovery Technology ..... DING Yan-yan, *et al.* (29)
- Design of Optimal Dispatching System of Water Supply Network Based on Online Model ..... ZHAO Mei-ling, *et al.* (35)
- Energy-saving Analysis of Series Superimposed Water Supply for High-rise Residential Buildings ..... LEI Chun-yuan, *et al.* (40)

## DESIGN EXPERIENCES

- Research on Rationality of Formulas for Minimum Speed and Motor Power Calculation of Rotating Biological Contactor ..... ZHAO Qing-liang, *et al.* (47)
- Study on the Technology of Controlling Dissolved Oxygen in Reflux Mixed Liquid by Deoxy Tank ..... LIU Lei-bin, *et al.* (52)
- MP-MBR Process Design of Chengdu Hezuo Wastewater Treatment Plant Phase III Project ..... HE Dong-cai, *et al.* (57)
- Application of Green Municipal Concept in Municipal Wastewater Treatment Plant to Reach Carbon Peak and Neutrality Goals ..... SONG Rui-ping, *et al.* (61)
- BIM Aided Collaborative Design and Information Integration Platform of Wastewater Treatment Plant ... YUAN Ming-xin, *et al.* (66)
- Design and Study of Fluidized Bed Sludge Drying System in Bailonggang Wastewater Treatment Plant ..... ZHANG Dong-ling(71)
- Research on Key Technology for Design of Long-distance Utility Tunnel Constructed by Underground Excavation Method ..... QIANG Jian, *et al.* (77)
- Measures for Over-limit High-rise Building to Improve the Safety Performance of Fire Water Supply System ... YANG Qi, *et al.* (83)

## PROJECT CASES

- Practice and Thinking on Upgrading of Hangzhou Chengxi WWTP ..... YU Jia-qing, *et al.* (89)
- Upgrading of Orbal Oxidation Ditch Based on Typical Southern China Wastewater Characteristics ..... WANG Jian-li, *et al.* (96)
- Intelligent Operation and Maintenance Management System of Unattended Pumping Station and Sluice Group Based on the Concept of Sponge City ..... LI Wen-qiang, *et al.* (101)
- Research and Practice of Drainage Outlets Regulation along the Tantou River ..... REN Ke-jun, *et al.* (106)
- Semi-closed Water Flowing Project Based on Joint Scheduling of Sluice & Pumping Station ..... XIAO Xu-mu, *et al.* (113)
- Research on the Construction of Intelligent Control System of the Pumping Station Group in Changde ..... LIU Qing-hua, *et al.* (117)
- Steel Pipe Slip Lining Rehabilitation under Long-distance Curve Condition Based on BIM and 3D Scanning ..... LONG Gui-hua, *et al.* (125)
- Simple Calculation and Practice of Water Quality and Quantity Balance for Improving Quality and Efficiency ... LI Chao, *et al.* (129)

## ANALYSIS AND MONITORING

- Hydrogen Peroxide Reduction and Potassium Dichromate Reverse Titration for Determination of Chlorate in Sodium Hypochlorite ..... ZHANG Xiang-qiong, *et al.* (135)

**专注输水安全**

**承载品质生活**

**世界领先的  
离心球墨铸铁管  
及配套产品供应商**



长距离输水



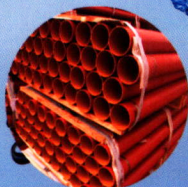
污水输送



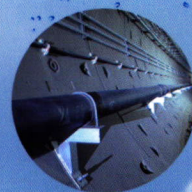
顶管



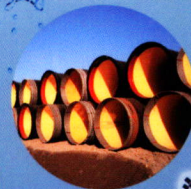
保温管



建筑排水管



消防管道



海水淡化

0310-4061535

[www.xinxing-pipes.com](http://www.xinxing-pipes.com)