

全国中文核心期刊
中国期刊方阵期刊
中华人民共和国建设部优秀期刊
中国科学引文数据库(CSCD)核心库期刊
中国科技论文统计源期刊(中国科技核心期刊)
中国学术期刊综合评价数据库统计源期刊
中国核心期刊(遴选)数据库收录期刊
中国期刊全文数据库收录期刊

给水排水

(月刊)

JISHUI PAISHUI

2019年第5期
(复总第45卷第441期)
(总第55卷第457期)

创刊年份:1964年

主管单位:中华人民共和国住房和城乡建设部
主办单位:亚太建设科技信息研究院

中国建筑设计研究院
中国土木工程学会

主 编:关兴旺
社 长:张 彬
副 社 长:张 杰
执行主编:顾 芳
编 辑 出 版:《给水排水》杂志社
(100120北京西城区德胜门外大街36号
中国建设科技大厦A座4层)

编辑部电话:(010)57368819/88375433

68316321/57368817

经营部电话:(010)57368815/68349352

事业发展部电话:(010)57369047

发行部电话:(010)68305036

网址:<http://www.wwe1964.com>

电子信箱:gsp@vip.163.com

在线投稿:<http://www.jzjs.cbpt.cnki.net>

本期实习责任编辑:李金龙

中国标准连续出版物号:ISSN 1002-8471
CN 11-4972/TU

印刷:北京联兴盛业印刷股份有限公司

国内总发行:北京市报刊发行局

国内订阅:全国各地邮电局(所)

国内邮发代号:2-757

国外总发行:中国国际图书贸易集团有限公司

国外发行代号:M4425

广告经营许可证:京西工商广字第0423号

出版日期:2019-05-10

定价:19.00元

目 次

水业导航

锰质活性滤膜化学催化氧化除锰机理研究 李圭白 梁 恒 余华荣等 1

城镇给排水

应对水源油类物质泄漏事故的自来水厂应急净水技术研究

张晓健 瞿强勇 陈 超 11

纳滤和反渗透技术在高含盐地下水中的应用及比较研究

郑 斌 褚 岩 赵绪军等 17

上海市《生活饮用水水质标准》制定及实施步骤与措施

陈国光 25

给水厂大型超滤膜系统招标技术细节对比与总结

芮 昱 31

市政污泥直压式压滤和高压隔膜板框压滤技术和经济对比分析

贾秀明 狄剑英 王 艳等 37

污泥水泥窑协同处置现状与展望(下) 杭世珺 关春雨 戴晓虎等 41

合肥市中心城区过渡期(2019~2021年)污泥处理处置方案分析

陶志佳 袁良松 王亚婧等 46

建成区沿河截污河流污染源权重和控制策略研究

李明柱 马圣玥 高静思等 51

基于CFD的孔板格栅过水性能研究

高 琼 秦春禹 郭 勇等 57

山东某污水处理厂基于地表Ⅲ类水体标准的改扩建工程设计

刘巨波 麻 倩 64

海绵城市规划与建设专栏

建筑与场地海绵专项设计思考

王熠宁 郑克白 李 曼 70

海绵城市典型设施设计思考

翟立晓 张 骊 郑克白 76

北方季节性降雨地区海绵城市规划建设经验探索

许申来 周影烈 韩志刚等 81

工业给排水

滨海电厂取水自清洁拦污方案物模试验研究 陈 坤 许波涛 孙世民 86

臭氧催化氧化应用于工业园区污水处理厂深度处理工艺的选择及设计

栗文明 白永刚 周 军等 90

建筑给排水

山地建筑给排水设计特点分析

张亦静 94

高海拔地区给排水设计探讨

顾燕燕 蒋海波 韩庆昌等 98



《给水排水》微信公众平台

《给水排水》各地联络站

杭州联络站长:王清华(浙江大学建筑设计研究院,13805736436)

联系人:方笑萍

电话:(0571)87951033

福州联络站长:程宏伟(福建省建筑设计研究院,13905908583)

联系人:黄文忠

电话:13705031488

广州联络站长:王峰(华南理工大学建筑设计研究院,13602866400)

电话:(020)85516734

沈阳联络站长:马黎明(辽宁省建筑设计研究院,13940514821)

联系人:张翼鸿(13940279673)

电话:(024)23390414-109

西安联络站长:刘西宝(中国建筑西北设计研究院有限公司,13991893885)

电话:(029)68519158

武汉联络站长:栗心国(中南建筑设计院股份有限公司,13607163112)

电话:(027)87336845

声明:

1 来稿要求原创、首发,不涉及国家、军事、商业等秘密,并请勿一稿多投。

2 本刊稿件处理周期一般为3个月,最迟6个月;如6个月内作者没有收到审稿意见,请与杂志社联系后再自行处理。

3 本刊刊登的所有稿件(包含文字和图片资料),自刊登之日起视同作者将该稿件著作权中的复制权、发行权、广播权、信息网络传播权、摄制权、改编权、翻译权、汇编权等专有使用权在全世界范围内授予《给水排水》杂志社,同时授权《给水排水》杂志社独家代理许可第三者使用上述权利,原著作权人可在非营利范围内继续使用。作者稿件著作权使用费计入稿酬,由杂志社一次付清,不再另付报酬。

4 作者投稿时,如未作特别申明,则视为同意以上内容,如有异议请与杂志社联系。

新苏州乐园消防给水系统介绍	石志敏 刘仁猛 王云峰等	101
仓库型特殊应用喷头在干式或预作用系统设计中的应用探讨	张舰艇	106
新型可曲挠耐高压短臂法兰介绍	黄 华 王耳其 高亮娟等	109

“十二五”水专项“建筑水系统微循环重构技术研究与示范”专栏

用水舒适度测试与节水潜力分析	吴俊奇 颜懿柔 乔晓峰等	113
----------------	--------------	-----

给排水管网

从城市地下综合管廊到新区地下市政综合体建设的思考	饶传富 毛 宇 熊小林等	119
基于未确知测度理论的供水管网漏损评价研究	李汉超 崔建国 赵 坤	124
基于水力模型的供水管网 DBS 分区及检漏研究	薛 峰 郭 瑾 郑胜达等	130

计算机技术

基于浊度与颗粒数关系的饮用水中“两虫”去除率预测模型	韩明毅 安 伟 桑晨惠等	134
----------------------------	--------------	-----

标准规范交流园地

全文强制建设规范《室外给水工程项目规范》编制研究	王蔚蔚 王全勇 李 珊等	141
--------------------------	--------------	-----

行业综合信息

南宁今年将建102个农村生活污水整治项目(16)	上海浦东2019年河长制工作要点出炉(50)	河北今年改造城市供水老旧管网不低于300 km(63)	宁夏出台推进农业农村污染治理方案(69)
《给水排水》在线投稿系统正式上线通知	93		
欢迎订阅2019年《给水排水》杂志(月刊)	144		
千人聚首襄盛举 群贤汇集绘未来——“第九届中国水业院士专家论坛”胜利召开	内折页		
广告索引	J4		

Chinese Core Journal
Chinese Statistic Journal of Science and Technology Treatises
Selected Journal of Chinese Journal Phalanx
Excellent Journal of the Ministry of Construction of P.R.China

WATER & WASTEWATER ENGINEERING

(Published Monthly)
Vol.45, No.5, May 2019

Sponsored by:

Asia - Pacific Institute of Construction
Scitech Information

China Architecture Design & Research
Group

China Civil Engineering Society

Founded in: 1964

Chief Editor: Guan Xingwang

President: Zhang Bin

Vice President: Zhang Jie

Executive Chief Editor: Gu Fang

Edited & Published by:

Water & Wastewater Engineering
Publishing House

Address: 4/F, Block A, CCTC Building,
36 Deshengmenwai Street, Xicheng
District, Beijing 100120, China

Tel: (86-10) 57368819/88375433/

68316321/57368817

68349352/57368815 (Ad. Dept.)

E-mail: gsp@vip.163.com

URL: http://www.wwe1964.com

Online submission:

http://www.jzjs.cbpt.cnki.net

Distributed in China by:

Beijing Newspaper and Magazine
Publishing Bureau

Subscribing place:

All the post offices in China
(Post distributing number: 2-757)

Distributed abroad by:

China International Book Trading
Corporation

(Post distributing number: M4425)

Publishing date: 2019-05-10

Price: 19.00(RMB) (Domestic)
10.00(USD) (Abroad)

CONTENTS

VIEW POINT

- Research on manganese removal by chemical auto-catalytic oxidation mechanism
involved in active manganese oxides film Li Guibai, Liang Heng, Yu Huarong, et al (1)

MUNICIPAL WATER & WASTEWATER ENGINEERING

- Study on emergency drinking water treatment technology against oil spill accident in
water source Zhang Xiaojian, Qu Qiangyong, Chen Chao (11)
- Application and comparison of nanofiltration and reverse osmosis technology in high
salinity groundwater Zheng Bin, Chu Yan, Zhao Xujun, et al (17)
- Formulation and implement of *Standard for drinking water quality* in Shanghai City
..... Chen Guoguang (25)
- Bidding technical specification comparison and summarization of major ultrafiltration
system in waterworks Rui Min (31)
- Technical and economic comparative analysis of municipal sludge direct pressure filter
and high pressure diaphragm plate and frame filter Jia Xiuming, Di Jianying, Wang Yan, et al (37)
- Status and prospect of sludge co-processing in cement kiln (Part 2)
..... Hang Shijun, Guan Chunyu, Dai Xiaohu, et al (41)
- Analysis of sludge treatment and disposal plan during transition period (2019~2021) in
central urban area of Hefei City Tao Zhijia, Yuan Liangsong, Wang Yajing, et al (46)
- study on pollution source weight and control strategy of river interception river in
built-up area Li Mingzhu, Ma Shengyue, Gao Jingsi, et al (51)
- Research on filtration of orifice-plate screen based on CFD Gao Qiong, Qin Chunyu, Guo Yong, et al (57)
- Design of reconstruction and expansion project in shandong municipal wastewater
treatment plant based on class III criterion of surface water Liu Jubo, Ma Qian (64)

SPONGE CITY PLANNING & CONSTRUCTION COLUMN

- Sponge specialized design of building and venue Wang Yining, Zheng Kebai, Li Man (70)
- Thoughts on design of typical facilities in sponge city Zhai Lixiao, Zhang Xiao, Zheng Kebai (76)
- Experience of sponge city construction in seasonal rainfall areas of North China
..... Xu Shenlai, Zhou Yinglie, Han Zhigang, et al (81)

INDUSTRIAL WATER & WASTEWATER ENGINEERING

- Physical model test research on auto clean trash net in water intake of coastal power
plant Chen Kun, Xu Botao, Sun Shimin (86)

Selection and design of catalytic ozonation in wastewater advanced treatment of
industrial park Li Wenming, Bai Yonggang, Zhou Jun, et al (90)

BUILDING WATER & WASTEWATER ENGINEERING

Analysis of water supply and drainage design for mountain buildings
..... Zhang Yijing (94)

Discussion on water supply and drainage design in high altitude area
..... Gu Yanyan, Jiang Haibo, Han Qingchang, et al (98)

Fire water supply system in new Suzhou Paradise
..... Shi Zhimin, Liu Renmeng, Wang Yunfeng, et al (101)

Application of storage specific application sprinkler in design of dry or pre-acting
system Zhang Jianting (106)

Introduction of short arm stainless steel flange
..... Huang Hua, Wang Erqi, Gao Liangjuan, et al (109)

RESEARCH AND DEMONSTRATION ON MICROCIRCULATION RECONSTRUCTION TECHNOLOGY OF BUILDING WATER SYSTEM COLUMN

Analysis of comfort feeling test and water saving potential
..... Wu Junqi, Yan Yirou, Qiao Xiaofeng, et al (113)

WATER SUPPLY & DRAINAGE NETWORK

Consideration on the construction from utility tunnel to new area underground municipal
complex Rao Chuanfu, Mao Yu, Xiong Xiaolin, et al (119)

Research on evaluation method of water supply pipeline leakage based on unascertained
measure theory Li Hanchao, Cui Jianguo, Zhao Kun (124)

DBS implementation of water distribution network by using a hydraulic model and its
application in NRW reduction Xue Feng, Guo Jin, Zheng Shengda, et al (130)

COMPUTER TECHNOLOGY

The prediction model for the removal rate of *Cryptosporidium* and *Giardia* in drinking
water based on the relationship between turbidity and particle counts
..... Han Mingyi, An Wei, Sang Chenhui, et al (134)

STANDARDS & REGULATION FIELD

Formulation research of mandatory construction code for *Code for water supply of
outside buildings* Wang Weiwei, Wang Quanyong, Li Shan, et al (141)

Call for Papers

As the eldest and most distributed professional journal of water industry, *Water & Wastewater Engineering (W&WE)* gained very wide acceptance from the colleagues working in this field in this country since start publication in 1964. Now it is administrated by the Ministry of Construction of the People's Republic of China and sponsored by the China Civil Engineering Society etc.

W&WE is a comprehensive monthly deal with practical techniques in design, construction and operation, also theoretical theses and information are included. Special columns of Municipal Water and Wastewater Engineering, Industrial Water and Wastewater Engineering and Building Water and Wastewater Engineering etc have been established.

In order to strengthen the contents of *W&WE* on the world wide technical advancing and dynamic developments in water industry, we call for papers including development strategy and planning, major technical practice and prospect, innovation and exploration of water industry etc. Both original scientific papers and news for new media are acceptable and welcom. We are waiting with best wishes.

Please contact to
Miss Zhang Bin and Miss Xia Yun
Tel: (86-10)57368818
E-mail:gsps@vip.163.com