

主管：上海市科学技术协会

主办：上海市净水技术学会 / 上海市城乡建设和交通委员会科学技术委员会办公室

净水技术

4

ISSN 1009-0177

CN 31-1513/TQ

CODEN JSJSAK

中国科技核心期刊

第四届华东地区优秀期刊

Jingshui

Jishu

2012 Vol.31 No.4

WATER PURIFICATION TECHNOLOGY

《净水技术》创刊三十周年专刊

蓄势待发 一往无前

迎风启航 不断壮大

搏击风浪 永不停歇

30
1982-2012



ISSN 1009-0177



万方数据

目 次

市政总院专栏

- 城区集中式污泥处理处置中心建设的技术方案 曹 晶 (1)
现有城镇水厂技术升级改造面临的主要问题及对策 王如华 (4)
臭氧活性炭与膜过滤联用技术在清泰水厂工艺升级改造中的应用 赵 晖, 王如华 (7)
城市污水处理厂接纳初期雨水的可行性分析 徐文征 (13)

(南方)水中心专栏

- 紫外/过氧化氢(UV/H₂O₂)高级氧化工艺在饮用水处理中的应用 ... 夏 萍, 张 东, 周新宇, 等 (17)
青草沙水库工程项目统计工作信息化管理 沈 蔚 (20)
城市二次供水系统水质管理模式浅析 黄 怡, 周文琪, 陶 诚 (24)
微囊藻毒素-RR 的提取与生物降解 钱元健 (27)
黄浦江水源原水水质安全在线监测指标筛选 刘宴辉, 王绍祥, 黄 怡, 等 (31)

科 普 论 坛

- 水蚯蚓在污水处理与污泥减量中的应用 陈光辉, 张克峰, 王洪波, 等 (34)

专 论 与 综 述

- 生物蓄渗技术控制径流污染的机理与应用 邓文珊, 李 田 (38)
人工湿地堵塞问题的机理探讨 叶 超, 叶建锋, 冯 骞, 等 (43)
水质的生物毒性检测方法 高小辉, 杨峰峰, 何圣兵, 等 (49)

水资源与给水处理

- 光照强度及温度对青草沙水库蓝藻暴发风险的模拟试验 任翔宇, 王铭玮, 顾詠洁, 等 (55)
氯胺消毒工艺在郊区水厂的应用实践 张华军 (61)
水中 1,1,1-三氯乙烷的三种去除工艺方法 姜 旭 (66)

污废水处理及回用

- UV/Fenton/草酸体系对甲基紫的光解脱色作用 高 航, 马 威, 王丽芬, 等 (70)
曝气生物滤池中无机氮转化规律与降解数学模型 夏绍凤 (74)
微氧厌氧处理糖蜜酒精废水的限制因素 黄国玲, 解庆林, 纪宏达, 等 (80)
内置式连续液-液萃取法对污泥厌氧消化液中挥发性脂肪酸的测定 赵星洁 (84)
多氨基多醚基亚甲基膦酸(PAPEMP)在乙烯生产循环冷却水处理中的应用
..... 蒋毅章, 季淑滢, 赵士峰 (89)
气液两相流方法对络合-超滤膜组件污染的清洗 乔玉柏, 邵嘉慧, 何义亮 (92)
核桃壳对二价锰离子(Mn²⁺)的吸附性能 李继云, 徐冰峰, 黄兆龙, 等 (98)
臭氧氧化联合 A/A/O 工艺污泥减量的可行性 寇青青, 朱世云, 覃 宇, 等 (102)
两级复合滤料生物滤池处理洗衣废水的试验 黄少华, 徐国勋 (105)

设 备 与 材 料

- 活性炭对单宁酸的吸附去除性能 孙 瑛, 刁炳祥 (109)
水热污泥渣活性炭的制备及其应用 许美芝, 申哲民, 董 宇, 等 (114)

分 析 与 监 测

- 粉末活性炭工艺去除水中 1,1,2,2,3-五氯丙烷 贾丽莉 (119)
紫外光谱在线监测仪预警软件的开发和应用 潘 晓, 江文华 (122)

设计与工程实例

- 玻璃钢夹砂管施工的接缝处理与试压技术 邵成猛, 王军辉 (129)
纯氧曝气工艺在 Cagnes-sur-Mer 污水处理厂的应用案例 李佳晶, 张亚雷, 周雪飞, 等 (134)

经 验 交 流

- 上海世博会罗阿案例馆种植屋面的灌溉系统设计 徐钟骏 (139)
GIS 在沪北供水管网管理中的应用 周有德 (144)
供水水量产销差和漏损率分析与控制对策 龚佩敏 (148)
排水管道检测评估与非开挖修复设计方案 吴坚慧 (152)

- 征订信息 (16, 48, 65, 69)

- 广告目次 (156)

CONTENTS

SMEDI COLUMN

- Technical Solutions of Construction for Centralized Sludge Treatment and Disposal Center in Urban Areas Cao Jing (1)
Main Problems and Solutions of Technical Upgrading and Rehabilitation for Existing Urban Water Treatment Plant
..... Wang Ruhua (4)
Joint Technological Processes of Ozone Activated Carbon and Membrane Filtration for Upgrading and Rehabilitation
in Qingtai Waterworks Zhao Hui, Wang Ruhua (7)
Feasibility Analysis of Initial Rainwater Disposal by Wastewater Treatment Plant Xu Wenzheng (13)

(SOUTH) CUWR COLUMN

- Application of Advanced Oxidation Technological Process of UV/H₂O₂ in Drinking Water Treatment
..... Xia Ping, Zhang Dong, Zhou Xinyu, *et al.* (17)
Informatization Management of Statistical Work for Qingcaosha Reservoir Engineering Project Shen Wei (20)
Elementary Analysis of Water Quality Management Mode for Secondary Water Supply System in Cities
..... Huang Yi, Zhou Wenqi, Tao Chen (24)
Extraction and Biodegradation of Microcystin-RR (MC-RR) Qian Yuanjian (27)
Screening and Selection of Online Monitoring Indicators for Safety of Raw Water Quality of Huangpu River
..... Liu Yanhui, Wang Shaoxiang, Huang Yi, *et al.* (31)

POPULAR SCIENCE FORUM

- Application of Tubificidae (Aquatic Earthworm) in Wastewater Treatment and Sludge Reduction
..... Chen Guanghui, Zhang Kefeng, Wang Hongbo, *et al.* (34)

SUMMARIES AND THESES ON SPECIAL TOPICS

- Mechanism and Application of Runoff Pollution Control with Bioretention Technology Deng Wenshan, Li Tian (38)
Exploration of Mechanism in Clogging Problems for Constructed Wetlands Ye Chao, Ye Jianfeng, Feng Qian, *et al.* (43)
Testing Methods of Biological Toxicity Detection for Water Quality Gao Xiaohui, Yang Fengfeng, He Shengbing, *et al.* (49)

WATER RESOURCE AND WATER TREATMENT

- Simulation Experiment in Different Light Intensity and Temperature Gradients for Risk of Blue-Green Algae
Outbreak in Qingcaosha Reservoir Ren Xiangyu, Wang Mingwei, Gu Yongjie, *et al.* (55)
Applications and Practice of Disinfection Process with Chloramine in Suburban Water Treatment Plants Zhang Huajun (61)
Three Methods of Processes for 1,1,1-Trichloroethane Removal in Water Jiang Xu (66)

WASTEWATER TREATMENT AND REUSE

- Photolytic Decolorization of UV/Fenton/Oxalic Acid System for Methyl Violet Gao Hang, Ma Wei, Wang Lifen, *et al.* (70)
Transformation Regularity of Inorganic Nitrogen and Mathematical Model of Degradation in Biological Aerated Filter
..... Xia Shaofeng (74)
Limiting Factors of Micro-Aeration and Anaerobic Processes for Molasses Alcohol Wastewater Treatment
..... Huang Guoling, Xie Qinglin, Ji Hongda, *et al.* (80)
Quantitative Analysis of VFAs in Anaerobic Digestion Supernatant of Sludge with Built-In Continuous Liquid-Liquid Extraction
..... Zhao Xingjie (84)
Application of Polyamino Polyether Methylene Phosphonate (PAPEMP) in Recirculated Cooling Water Treatment
System for Ethylene Production Jiang Yizhang, Ji Shuyi, Zhao Shifeng (89)
Cleaning for Fouled Membrane Module in Complexation-Ultrafiltration Processes with Gas/Liquid Two-Phase Flow Method
..... Qiao Yubai, Shao Jiahui, He Yiliang (92)
Performance of Adsorption for Manganous Ions (Mn²⁺) By Walnut Shells Li Jiyun, Xu Bingfeng, Huang Zhaolong, *et al.* (98)
Feasibility of Sludge Reduction in Combination of A/A/O and Ozone Oxidation Processes
..... Kou Qingqing, Zhu Shiyun, Qin Yu, *et al.* (102)
Experiment of Laundry Wastewater Treatment by Biological Aeration Filter (BAF) with Two-Stage Composite Filter Media
..... Huang Shaohua, Xu Guoxun (105)

EQUIPMENT AND MATERIAL

- Performance of Activated Carbon Adsorption for Tannic Acid Removal Sun Ying, Diao Bingxiang (109)
Preparation and Application of Activated Carbon Made from Sludge-Based Hydrothermal Residues
..... Xu Meizhi, Shen Zhemin, Dong Yu, *et al.* (114)

WATER ANALYSIS AND MONITORING

- Removal of 1,1,2,2,3-Pentachloropropane in Water Treated by Powdered Activated Carbon Process Jia Lili (119)
Development and Application of Early Warning Software for Online Monitoring Instrument of Ultraviolet Spectrum
..... Pan Xiao, Jiang Wenhua (122)

DESIGN AND ENGINEERING CASES

- Technology of Joint Processing and Pressure Test for FRPM Pipes Construction Shao Chengmeng, Wang Junhui (129)
Case Study of Application of Pure Oxygen Aeration Process in Cagnes-sur-Mer Wastewater Treatment Plant
..... Li Jiajing, Zhang Yalei, Zhou Xuefei, *et al.* (134)

EXCHANGES OF EXPERIENCES

- Design of Planted Roof Irrigation System of Rhone-Alps Case Pavilion in World Expo Shanghai Xu Zhongjun (139)
Application of GIS in Management of Water Supply Distribution Network in North Shanghai Zhou Youde (144)
Analysis and Control Countermeasures for Non-Revenue Water and Rate of Leakage & Loss of Water Quantity Supplied
..... Gong Peimin (148)
Inspection and Assessment of Drainage Pipelines and Design Scheme of Trenchless Rehabilitation Technology
..... Wu Jianhui (152)

SUBSCRIPTION (16,48,65,69)

ADVERTISING CONTENTS (156)