

中国科技核心期刊 中国科学引文数据库 (CSCD) 核心库来源期刊

ISSN 1672-643X
CN 61-1413/TV

水资源与水工程学报

JOURNAL OF WATER RESOURCES AND WATER ENGINEERING

SHUIZIYUAN YU SHUIGONGCHENG XUEBAO

(第30卷 第4期 Vol.30 No.4)

水资源与水工程学报

第三十卷 第四期

二〇一九年八月出版

ISSN 1672-643X



主办 西北农林科技大学

主管 中华人民共和国教育部

4
2019

水 资 源 与 水 工 程 学 报

SHUIZIYUAN YU SHUIGONGCHENG XUEBAO

2019 年 第 30 卷 第 4 期(总第 146 期)

目 次

· 水文水资源 ·

基于不同碳源的硫酸盐还原菌处理硫酸酸性废水试验	狄军贞,孙 娟,郭俊杰,王明佳(1)
率水流域非点源污染分析及施肥措施模拟	王 媛,楚春礼,刘 夏,鲁海宁,毕孟飞,王玉秋(6)
基于 HMM 和 BP 神经网络组合模型的用水行为识别	赵太飞,谷伟豪,马欣媛,段延峰(14)
北京妫水河湿地植物多样性调查与评价研究	萨茹拉,刘来胜,李志萍,霍炜洁,殷淑华,程 娜(18)
基于 GC-TOPSIS 模型的水资源管理绩效评价及障碍度分析	罗 浩,周维博,白洁芳,唐继张,杨阿敏(26)
城西试验流域水文特性及水文过程模拟	刘 悦,舒心怡,管晓祥,杨勤丽,刘翠善,王国庆(32)
黄壤径流小区植被覆盖度对土壤湿度的影响	孙智妍,周秋文,罗雅雪,韦小茶,余军林(39)
基于 DPSR-改进 TOPSIS 模型的淮安市水资源承载力评价	许 杨,陈 菁,夏 欢,褚琳琳,张馨元(47)
基于 MODIS 的积雪时空变化与 CMADS 气象因子相关性研究——以塔什库尔干河流域为例	彭 亮,郑淑文,何 英,穆振侠,李晓庆(53)

“双源”分布区地下水质量及生态价值评估	徐庆勇,林 健,江 岳,杨 庆,王晓红(63)
人类活动干扰对瀾河流域设计洪水的影响研究	慕登睿,袁卫宁,吕继强,罗平平,范 磊(71)
长江源区 1980-2010 年土地利用变化及影响分析研究	金浩宇,鞠 琴,曲 珍,董小涛,郝振纯(78)
南水北调工程东线源区近 60 年降水径流特征分析	孙正兰(86)
基于 Budyko 假设的黄河下游非一致性径流模拟	丛培月,牟献友,冀鸿兰,张宝森(92)
博斯腾湖湖岸线时空变化特征	高鹏文,李新国,阿里木江·卡斯木(98)
湖南省水贫困与城市化水平测度及其时空耦合协调研究	李 欢,李景保,王 凯(105)
西安市城市化与水资源环境耦合关系研究及预测	冯文文,郭 梦,钱 会,侯 凯(113)
熵值密切值法在陆浑水库营养状况评估中的应用	张继宇,王国重,李中原,程焕玲,郝 捷(119)

· 水利水电工程 ·

基于物元分析法的泵站管理现代化评价研究	高玉琴,刘云苹,叶 柳,黄显峰,胡玉胜(124)
拱坝坝后电梯井结构应力变化规律研究	刘 鹏,邓 恒,李守义,赵 珍,李 丹(131)
山区河流溃坝洪水演进分析	王 雯,董嘉锐,杨 杰,李 鹏,李占斌,刘基兴,朱战齐(138)
楼庄子水库溢洪洞体型优化试验研究	张 军,刘景瑞(143)
淤地坝淤积对漫顶溃坝洪水影响数值模拟研究	张兆安,侯精明,刘占衍,马利平,李占斌,李小纲(148)
低水头水闸下游消力池长度优化研究	黄智敏,付 波,陈卓英(154)
深厚覆盖层中局部强透水层对渗流的影响研究	王正成,毛海涛,申纪伟,黄海均(159)
西法城际铁路眉县跨渭河特大桥壅水分析	高 原,王文娥,张维乐(167)
上游串联双调压室系统合理尺寸选择的研究	张 帅,张晓宏,张俊发(172)

· 水工结构工程 ·

纳米 CuO 改性水泥基材料力学与耐久性的试验研究	吴福飞,赵振华,董双快,刘春梅,周开州(177)
泵站深基坑支护结构的离心模型试验研究	冯 志,沈正龙,孟庆亮,卢庆根,曹天兴,岳夏冰(183)
高温后不同冷却方式对混凝土力学特性的影响	郑钰涛,李玉成,彭晨鑫(189)

· 岩土工程 ·

基于土体 $\varepsilon-p$ 曲线模型的压密注浆影响半径研究	胡焕校,张 剑,杨万松,孙端阳,陈佳乐(195)
冻融循环作用下砂岩无损测试力学特性研究	刘 杰,黎 照,杨渝南,唐洪宇,高 进,沈豪炜(201)
洞庭湖区掺粉煤灰水泥土性能试验研究	王 嵩,黄耀英,方国宝,黄绪泉,蔡 忍,殷晓慧(210)
砂岩与花岗岩在冻融循环和化学腐蚀下力学性能及断裂韧度变化的对比	印宇澄,陈有亮,孟祥瑞(217)
基于离散元法研究颗粒球度对粗粒土抗剪强度的影响	李远征,魏玉峰,雷 壮,何 亮(225)

· 农业水土工程 ·

温室中农村废水再生滴灌过程中污染物的时空变化规律	裴 亮,麦荣幸,孙莉英,栗清亚(233)
淮北平原基于水文气象多因子的土壤水分动态预测	路 璐,王振龙,杜富慧,胡永胜,张晓萌(237)
流量对微压过滤冲洗池过滤性能的影响研究	杨圆坤,陶洪飞,牧振伟,李 巧,马合木江·艾合买提,杨文新,姜有为(244)
基于 PSO-PPE 模型的宁夏扬水灌区水土资源承载力综合评价	邹全程,伍昊洋,叶 威,王春懿,赵 璐,崔宁博,梁 川(250)

期刊基本参数: CN61-1413/TV * 1990 * b * A4 * 256 * zh * P * ¥30.00 * 1000 * 39 * 2019-08

万方数据

责任编辑:聂源宏

英文审校:李 敏

CONTENTS

Experiment of sulfate acid wastewater treatment by sulfate reducing bacteria based on different carbon sources	DI Junzhen, SUN Juan, GUO Junjie, et al (1)
Non-point source pollution analysis and fertilizer management simulation in Shuaishui Basin	WANG Yuan, CHU Chunli, LIU Xia, et al (6)
Water-using behavior recognition based on HMM and BP neural network mixing model	ZHAO Taifei, GU Weihao, MA Xinyuan, et al (14)
Investigation and evaluation on plant diversity of wetlands in Guishui River, Beijing	SA Rula, LIU Laisheng, LI Zhiping, et al (18)
Performance evaluation and obstacle degree analysis of water resources management based on GC – TOPSIS Model	LUO Hao, ZHOU Weibo, BAI Jiefang, et al (26)
Hydrological characteristics and process simulation of Chengxi experimental watershed	LIU Yue, SHU Xinyi, GUAN Xiaoxiang, et al (32)
Effect of vegetation coverage on soil moisture in runoff plots filling with Yellow Soil	SUN Zhiyan, ZHOU Qiuwen, LUO Yaxue, et al (39)
Evaluation of water resource carrying capacity in Huai'an City based on DPSR – improved TOPSIS model	XU Yang, CHEN Jing, XIA Huan, et al (47)
Correlation between temporal and spatial changes of snow cover and CMADS meteorological factors based on MODIS: A case study of Tashkurgan River Basin	PENG Liang, ZHENG Shuwen, HE Ying, et al (53)
Assessment of groundwater quality and ecological value in “Double source” Distribution Area	XU Qingyong, LIN Jian, JIANG Yue, et al (63)
Impacts of human activities on design flood of Bahe River Basin	MU Dengrui, YUAN Weining, LÜ Jiqiang, et al (71)
Land use change and impact analysis in the source region of the Yangtze River from 1980 to 2010	JIN Haoyu, JU Qin, QU Zhen, et al (78)
Analysis of precipitation and runoff characteristics in recent 60 years in the Eastern Source Area of the South-to-North Water Transfer Project	SUN Zhenglan (86)
Runoff simulation of non-uniform in the lower reaches of the Yellow River based on Budyko hypothesis	CONG Peiyue, MOU Xianyou, JI Honglan, et al (92)
Temporal and spatial variation characteristics of the Bosten Lake shoreline	GAO Pengwen, LI Xinguo, Alimujiang Kasimu (98)
Spatio – temporal coupling and measurement of water poverty and urbanization level in Hunan Province	LI Huan, LI Jingbao, WANG Kai (105)
Research and prediction relationship of the coupling of urbanization and water resources environment in Xi'an City	FENG Wenwen, GUO Meng, QIAN Hui, et al (113)
Application of entropy osculation method in nutrient status assessment of Luhun Reservoir	ZHANG Jiyu, WANG Guozhong, LI Zhongyuan, et al (119)
Evaluation of pumping station management modernization based on matter-element analysis method	GAO Yuqin, LIU Yunping, YE Liu, et al (124)
Research on stress change law of elevator shaft downstream the arch dam	LIU Peng, DENG Heng, LI Shouyi, et al (131)
Analysis of dam break flood evolution in mountain river	WANG Wen, DONG Jiarui, YANG Jie, et al (138)
Experimental study on spillway hole shape optimization of Louzhuangzi Reservoir	ZHANG Jun, LIU Jingrui (143)
Numerical simulation on influence of check dam deposition on overtopping dam breaking flood	ZHANG Zhaoan, HOU Jingming, LIU Zhanyan, et al (148)
Optimization research on the length of the downstream stilling basin of low – head sluice	HUANG Zhimin, FU Bo, CHEN Zhuoying (154)
Study on effects of local strong permeable stratum characteristics in deep overburden on seepage field	WANG Zhengcheng, MAO Haitao, SHEN Jiwei, et al (159)
Backwater analysis of Mei County across Wei River Bridge of Xi'an to Famen Temple Inter-city Railway	GAO Yuan, WANG Wene, ZHANG Weile (167)
Research on the reasonable size selection of upstream series double surge chambers for hydropower station	ZHANG Shuai, ZHANG Xiaohong, ZHANG Junfa (172)
Experimental study on mechanics and durability of nano – CuO modified cement-based materials	WU Fufei, ZHAO Zhenhua, DONG Shuangkuai, et al (177)
Centrifugal model test of supporting structure of pump station deep foundation pit	FENG Zhi, SHEN Zhenglong, MENG Qingliang, et al (183)
Effect of different cooling methods on mechanical properties of concrete after high temperature	ZHENG Yutao, LI Yucheng, PENG Chenxin (189)
Influence radius of compaction grouting based on soil $\varepsilon - p$ curve model	HU Huanxiao, ZHANG Jian, YANG Wuansong, et al (195)
Study on the mechanical properties of sandstone nondestructive testing under the freeze-thaw cycle	LIU Jie, LI Zhao, YANG Yunan, et al (201)
Experimental study on performances of fly ash cement soil in Dongting Lake area	WANG Yu, HUANG Yaoying, FANG Guobao, et al (210)
Comparison of mechanical properties and fracture toughness changes of sandstone and granite under freeze-thaw cycle and chemical corrosion	YIN Yucheng, CHEN Youliang, MENG Xiangrui (217)
Research on the influence of particle sphericity on shear strength of coarse grained soil based on discrete element	LI Yuanzheng, WEI Yufeng, LEI Zhuang, et al (225)
Temporal and spatial variation of pollutants in the process of rural wastewater regenerated drip irrigation in greenhouse	PEI Liang, MAI Rongxing, SUN Liying, et al (233)
Dynamic prediction of soil moisture based on hydrometeorological multi-factors in HuaiBei Plain	LU Lu, WANG Zhenlong, DU Fuhui, et al (237)
Research on influence of flow on filtration performance of filtering and washing pool under micro-pressure	YANG Yuankun, TAO Hongfei, MU Zhenwei, et al (244)
Comprehensive evaluation of soil and water resource carrying capacity in Ningxia irrigation area based on PSO – PPE model	ZOU Quancheng, WU Haoyang, YE Wei, et al (250)