

“智慧水利与水利数字孪生”专题

- 智慧流域水文预报技术研究进展与开发前景 王 俊,程海云,郭生练,张 俊,崔 震(1)
- 水利数字孪生平台三维模拟仿真技术研究与应用 张 力,张 航,刘成堃,祝宪章(9)
- 数字孪生三峡库区建设关键技术研究 陈瑜彬,张 涛,牛文静,秦 昊(19)

“2022 年长江流域干旱研究”专题

- 长江流域干旱灾害应对的主要难点及其科技需求 许继军,陈桂亚,杨明智,袁 喆(25)
- 基于 Copula 的 2022 年长江流域极端干旱重现期研究 张洁祥,吕 娟,张学君,屈艳萍,冯爱青(32)
- 2022 年长江口压咸补淡调度实践及成效 许银山,曾 明,裘 诚,胡 挺(40)

流域规划与江湖治理

- 长江中游典型河段岸滩稳定性评价研究 熊海滨,谭 政,胡小龙,孙昭华(46)

防洪减灾

- 贵州省综合干旱指数构建及应用研究 刘振男,周靖楠,龚 宇,徐 敏(54)
- 基于 GIS 和组合赋权的城市洪涝灾害风险评估 熊 凡,李沛鸿,袁逸敏,吴 峰(60)

水环境与水生态

- 浙江省铜山源水库水体偏碱污染成因研究 钱 旭,蔡 梅,王元元,白君瑞(67)
- 河流生态修复曝气技术研究进展及热点分析 吴佐京通,张 训,潘红忠,廉晶晶,姚华明(76)
- 水位抬升对丹江口水库底栖动物群落的影响研究 文 威,李双双,冯桃辉,彭 祺(85)
- 黄河流域生态系统服务与城市化时空交互作用分析——以黄河宁夏段为例 肖 芳,魏文颖,周 斌(93)

水文水资源

- 陆地冰冻圈变化的水文效应:研究现状及展望 王 磊,柴晨好,齐 嘉,胡宝怡(101)
- 淮河小流域多源降水数据产品径流模拟对比分析 渠 畅,魏玲娜,董建志,徐士惠,宁 玮(109)
- HDPE 浮球覆盖率对消减水面蒸发及水质的影响 徐思远,严新军,王步之,侍克斌(118)
- 武汉市城市化与水资源协调发展研究 侯 雷(124)
- 胶东调水工程年度水量调度方案研究 金鹏宇,王 超,孙嘉辉,雷晓辉(131)
- 西北干旱区乡镇水资源承载力评价体系构建 高雅玉,宋 玉,田晋华,高金芳(139)

地质与勘测

- 基于 Massflow 的达摩沟泥石流模拟与危险性分析 杨 鑫,孟华君,路 璐,王 宇,吴季寰(146)
- 基于土壤质地分类的土壤渗透性影响因素研究 周 韩,罗 璟,杨沛璋,杨 鹏(153)

基于 PS - InSAR 与 SBAS - InSAR 的地面沉降监测分析——以长江南京段沿江区域为例
..... 陈媛媛,朱晨玮,郑加柱,王诗涵(160)

工程建设

高水压隧道盾构管片不同拼装方式力学性能分析..... 彭科峰,周书剑,李树忱,刘修义,唐苑寿(166)
隧道穿越溶洞富水区超前地质预报与处置..... 李 坚,张 铎,邓朝阳,郭亚欣,孙兴邦(173)

科学试验研究

气液两相旋喷射流流场特征及其影响因素研究..... 郑金贵(178)
基于多源信号融合的灯泡贯流式机组故障特征提取..... 陈 茗,胡 边,李 靖(185)
混流式水轮机启动过程中流场相干结构分析 苏 立,毛 成,沈春和,文贤馗(190)
新型异向流沉沙池结构优化研究 付海林,李 琳(195)
深挖方渠道边坡排水减压方案对比试验研究..... 王 兵,孙佑光,李文良,孙秀秀,王维平(203)
考虑接触问题的多边形有限元重力坝抗震断裂研究 徐 强,董金凯,陈健云,李 静(211)
基于声发射技术的再生混凝土冻融损伤特性研究..... 张 恺,尹志刚,陈 晨,董思健,周 晶(221)
MICP 联合纤维加筋黄土的力学性能及水稳性研究..... 胡其志,霍伟严,马 强,陶高梁(227)

工程运行管理

倒挂井阻渗对古防洪堤渗流稳定的影响..... 李 骞,周建芬,秦子鹏,曹明杰,严 芳(233)
水库大坝接缝开合度轻量化监测技术研究与应 用 孙 晨,丁 勇,谢东辉,李登华(240)
雅砻江梯级水电站运行数据管理优化模型..... 陈 平,何朝晖,丁 义,邵朋昊,张凯荣(249)

广告·书评

信息技术时代大学英语教学改革与发展研究——评《信息化背景下的大学英语教学改革》..... 周 茜
新世纪戏剧研究的问题意识、学术视野与理论建构——评《中国戏剧文学创作(2001~2017)》 白晨阳
新时期高中英语素质化教育与文化意识内涵探索——评《高中英语文化意识教育实践路径》 刘长江
信息化时代日语教学的创新与实践——评《日语教育学概论》 罗 兰
无人机试验测试发展研究——评《无人机系统的试验与鉴定》..... 屈文卿,张 雷,王 健,任斯卓
医院在公共卫生人才培养管理中的作用研究——评《医院管理与公共卫生服务》 贾伟帅
“互联网+”背景下高校思政课混合式教学实践探究——评《高校思想政治理论课混合式教学研究》
..... 谢 映,陈 欢
信息化时代思想政治教育文化建设路径研究——评《思政教育实践》 张 帅

封面摄影

鄱阳湖景观(大地之树) 汇图网供稿

Smart Water Conservancy and Digital Twin of Water Conservancy

- Research progress and development prospect of hydrological forecasting technology in smart watersheds
 WANG Jun, CHENG Haiyun, GUO Shenglian, ZHANG Jun, CUI Zhen (1)
- Research and application of key technologies for 3D simulation of water conservancy digital twin platform
 ZHANG Li, ZHANG Hang, LIU Chengkun, ZHU Xianzhang (9)
- Key technologies of digital twin of Three Gorges Reservoir region
 CHEN Yubin, ZHANG Tao, NIU Wenjing, QIN Hao (19)

Drought Research on Changjiang River Basin in 2022

- Difficulties and scientific and technological demands of drought disaster mitigation in the Changjiang River Basin
 XU Jijun, CHEN Guiya, YANG Mingzhi, YUAN Zhe (25)
- Return period of extreme drought over Changjiang River Basin of 2022 based on Copula function
 ZHANG Jiexiang, LYU Juan, ZHANG Xuejun, QU Yanping, FENG Aiqing (32)
- Practice and effect of recharge fresh water for repelling saltwater intrusion in Changjiang River Estuary in 2022
 XU Yinshan, ZENG Ming, QIU Cheng, HU Ting (40)

Basin Planning & River Lake Regulation

- Bank stability evaluation on typical reach of middle reaches of Changjiang River
 XIONG Haibin, TAN Zheng, HU Xiaolong, SUN Zhaohua (46)

Flood Control and Disaster Mitigation

- Construction of comprehensive drought index and its application in Guizhou Province
 LIU Zhennan, ZHOU Jingnan, GONG Yu, XU Min (54)
- Urban flood disaster risk assessment based on GIS and combined weights
 XIONG Fan, LI Peihong, YUAN Yimin, WU Feng (60)

Environment and Ecology

- Study on cause of meta – alkalence pollution of Tongshanyuan Reservoir in Zhejiang Province
 QIAN Xu, CAI Mei, WANG Yuanyuan, BAI Junrui (67)
- Research progress and hot spot analysis of aeration technology in river ecological restoration
 WU Zuojiang, ZHANG Xun, PAN Hongzhong, LIAN Jingjing, YAO Huaming (76)
- Effects of water level rising on macro – invertebrate communities in Danjiangkou Reservoir
 WEN Wei, LI Shuangshuang, FENG Taohui, PENG Qi (85)
- Spatio – temporal interaction between ecosystem services and urbanization along the Yellow River reach in Ningxia
 XIAO Fang, WEI Wenyong, ZHOU Bin (93)

Hydrology and Water Resources

- Hydrological effect of land cryosphere change: research status and prospective
 WANG Lei, CHAI Chenhao, QI Jia, HU Baoyi (101)
- Comparison of runoff simulation of multi – source precipitation data products in small watershed of Huaihe River
 QU Chang, WEI Lingna, DONG Jianzhi, XU Shihui, NING Wei (109)
- Effect of HDPE floating ball coverage rate on water surface evaporation and water body reduction
 XU Siyuan, YAN Xinjun, WANG Buzhi, SHI Kebin (118)
- Coordinated development of urbanization and water resources in Wuhan City HOU Lei (124)

Annual water scheduling scheme of Jiaodong Water Diversion Project
..... JIN Pengyu, WANG Chao, SUN Jiahui, LEI Xiaohui(131)

Evaluation system for water resources carrying capacity of villages and towns in arid region of Northwest China
..... GAO Yayu, SONG Yu, TIAN Jinhua, GAO Jinfang(139)

Geology and Survey

Numerical simulation and risk analysis of mudslide in Dharma Gully sub – basin based on Massflow
..... YANG Xin, MENG Huajun, LU Lu, WANG Yu, WU Jihuan(146)

Influence factors of soil permeability based on soil texture classification
..... ZHOU Han, LUO Jing, YANG Peizhang, YANG Peng(153)

Comparison and analysis on land subsidence based on PS – InSAR and SBAS – InSAR; case of Nanjing riparian area a-
long Chanjiang River CHEN Yuanyuan, ZHU Chenwei, ZHENG Jiazhu, WANG Shihan(160)

Engineering and Construction

Mechanical properties of shield segments by different assembling methods in high water pressure tunnels
..... PENG Kefeng, ZHOU Shujian, LI Shuchen, LIU Xiuyi, TANG Yuanshou(166)

Advanced geological prediction and disposal for tunnel crossing karst cave in water – rich area
..... LI Jian, ZHANG Duo, DENG Zhaoyang, GUO Yaxin, SUN Xingbang(173)

Experimental Research

Flow field characteristics and influencing factors of gas – liquid two – phase rotary jet grouting ... ZHENG Jingui(178)

Fault feature extraction method of bulb tubular units based on multi – source signal fusion
..... CHEN Ming, HU Bian, LI Jing(185)

Coherent structure analysis of Francis turbine during start – up
..... SU Li, MAO Cheng, SHEN Chunhe, WEN Xiankui(190)

Optimization of a new anisotropic flow sedimentation tank structure FU Hailin, LI Lin(195)

Contrast experiment of drainage and decompression scheme of deep excavation channel slope
..... WANG Bing, SUN Youguang, LI Wenliang, SUN Xiuxiu, WANG Weiping(203)

Seismic fracture analysis of gravity dam by using polygonal finite element considering contact problem
..... XU Qiang, DONG Jinkai, CHEN Jianyun, LI Jing(211)

Damage characteristics of recycled aggregate concrete subjected to freeze – thaw deterioration based on acoustic emission
technology ZHANG Kai, YIN Zhigang, CHEN Chen, DONG Sijian, ZHOU Jing(221)

Research on mechanics and water stability of fiber reinforced loess combined with MICP
..... HU Qizhi, HUO Weiyan, MA Qiang, TAO Gaoliang(227)

Operation Management
Influence of anti – seepage of upside down hanging well on seepage stability of ancient flood embankments
..... LI Qian, ZHOU Jianfen, QIN Zipeng, CAO Mingjie, YAN Fang(233)

Research and application of lightweight monitoring technology for dam joint opening
..... SUN Chen, DING Yong, XIE Donghui, LI Denghua(240)

Optimization model of operation data management for cascade hydropower stations on Yalong River
..... CHEN Ping, HE Zhaohui, DING Yi, SHAO Penghao, ZHANG Kairong(249)

EDITOR AND PUBLISHER Yangtze River Editorial Department	SPONSOR Changjiang Water Resources Commission, Ministry of Water Resources, P. R. China
EDITOR IN CHIEF ZHONG Zhiyu	DISTRIBUTOR China International Book Trading Corporation(GUOJI SHUDIAN) P. O. Box 399, Beijing, China, Code No. M962
ADDRESS 1863 Liberation Ave. , Wuhan, 430010, P. R. China	