

水 利 学 报

SHUILI XUEBAO

第 56 卷 2025 年 第 4 期(月刊)

目 次

黄河流域系统可持续运行的“139+”水沙调控指标体系	江恩慧 李洁玉 王远见 屈博 刘刚 贾佳(423)
混流式水轮机抗泥沙磨损叶片的优化设计	钱忠东 钟琴琴 曾心成 郭志伟(433)
碾压混凝土坝仓面碾压及摊铺状态视觉监控方法	宋本扬 崔博 张天伟 吴斌平 任炳昱 佟大威(445)
渍后控制排水对土壤水分和大豆生长的短期与长期影响	张威贤 王少丽 焦平金 许迪 郑思宇(455)
海河流域 500 年尺度降水周期性分析与预测	谭伟丽 赵勇 王庆明 刘蓉(466)
伶仃洋河口枯季径-潮-盐-悬沙动力特征对海床地形异变响应	钟子悦 向波 余明辉 刘书宝(477)
基于 SSA-BP 的自压灌溉管网泄漏定位模型研究	张辉 刘宁宁 王振华 张金珠 李森 尹飞虎(488)
国家水网专题(第二十七届中国科协年会学术论文专栏)	
基于线性二次最优的多级串联明渠前馈控制方法研究	管光华 李泉华 毛中豪 罗玉峰 黄跃群 杨家亮(499)
南水北调中线工程典型建筑物冬季失温精细观测	付辉 郭新蕾 潘佳佳 脱有才 徐恒晖(511)
多模态知识图谱与大模型协同的水利工程风险应对决策推荐	杨阳蕊 潘世峰 刘雪梅 马威 冯岭(519)
国家水网对中国地级市水资源短缺的缓解效果评估	余运磊 曹一一 周琪 刘洲屹 林瑾 曲申(531)
中国流域水碳平衡模拟模型研究 I: 模型原理与构建	宋志远 段凯 赵勇 翟家齐 刘宁 孙阁(541)

JOURNAL OF HYDRAULIC ENGINEERING

Vol . 56 No . 4 2025

(Monthly)

CONTENTS

- Water and sediment regulation index system “139+” for sustainable development of the Yellow River Basin
JIANG Enhui LI Jieyu WANG Yuanjian QU Bo LIU Gang JIA Jia(423)
- Optimized design of erosion-reduced blades in a Francis turbine
QIAN Zhongdong ZHONG Qinjin ZENG Xincheng GUO Zhiwei(433)
- Visual monitoring method for the rolling and paving status of the roller compacted concrete dam
SONG Benyang CUI Bo ZHANG Tianwei WU Binping REN Bingyu TONG Dawei(445)
- Short-term and long-term effects of drainage control after waterlogging on soil water movement and soybean growth
ZHANG Weixian WANG Shaoli JIAO Pingjin XU Di ZHENG Siyu(455)
- Analysis of 500-year precipitation periodicity and prediction in Haihe River Basin
TAN Weili ZHAO Yong WANG Qingming LIU Rong(466)
- Response of river-tide-salt-suspended sediment dynamics to seabed topographic abnormality during dry season in the Lingdingyang Bay
ZHONG Ziyue XIANG Bo YU Minghui LIU Shubao(477)
- Research on leakage positioning model of self-pressure irrigation pipe network based on SSA-BP
ZHANG Hui LIU Ningning WANG Zhenhua ZHANG Jinzhu LI Miao YIN Feihu(488)
- A feedforward control method based on linear quadratic optimization for cascaded open channel
GUAN Guanghua LI Xiaohua MAO Zhonghao LUO Yufeng HUANG Yuequn YANG Jialiang(499)
- High-resolution water temperature observation of typical structures in the Middle Route of South-to-North Water Diversion Project
FU Hui GUO Xinlei PAN Jiajia TUO Youcai XU Henghui(511)
- Multimodal knowledge graph collaborated with large model for decision recommendation of water projects risk response
YANG Yangrui PAN Shifeng LIU Xuemei MA Wei FENG Ling(519)
- Assessment the impact of the National Water Network on water shortages in Chinese prefecture-level cities
SHE Yunlei CAO Yiyi ZHOU Qi LIU Zhouyi LIN Jin QU Shen(531)
- A terrestrial water-carbon balance model for China I: Concept and model structure
SONG Zhiyuan DUAN Kai ZHAO Yong ZHAI Jiaqi LIU Ning SUN Ge(541)