

节水灌溉



2021 8

武汉大学 中国灌溉排水发展中心 主办

WATER SAVING IRRIGATION



大禹节水
DAYU WATER-SAVING

股票简称：大禹节水 股票代码：300021

国际灌排委员会（ICID）第一家中国企业成员

「物联网+云技术」 智慧化控制平台

智慧水务



大禹节水集团股份有限公司
Dayu Water-saving Group Co.,Ltd

地址：天津市武清区京滨工业园民旺路10号

电话：022-59679301

传真：022-59679307

<http://www.dyjs.com>

E-mail:dyjs@dyjs.com

ISSN 1007-4929



9 771007 492082

0.8>

节 水 灌 溉

2021年第8期 总第312期

目 次

- 基肥施用方式和灌水量对土壤水分动态和玉米产量影响 王利书 杨宝斌 王丽玄 等(1)
- 不同调亏灌溉模式对冬小麦生长、生理及产量的影响 王东博 王书吉 韩玉薪(8)
- 基于XGBoost的土壤含水量传感器温度补偿模型研究 沈 欣 吴 勇 孟范玉 等(13)
- 水稻节水灌溉技术模式研究进展 马世浩 杨 丞 王贵兵 等(19)
- 风沙土膜下滴灌氮肥运筹对玉米生长、干物质和产量的影响 顾桂栋 窦超银 孟维忠 等(25)
- 中贫营养湖泊叶绿素a预测模型探讨 刘 宇 朱丹瑶(31)
- 智能氮肥在干湿交替灌溉下对水稻产量与水分利用率的影响 王易天 郭相平 Yousef Alhaj Hamoud 等(37)
- 烤烟控水节肥育苗措施对水肥利用和烟苗素质的影响 高 天 王均宜 陈亚茹 等(42)
- 测控一体化闸门及其调控技术研究分析 侯文涛 白美健 陈炳绅 等(47)
- 渠道衬砌状况对渠系水利用系数的影响分析 周玉琴 石 佳 万 昕(52)
- 水分养分胁迫对冬小麦器官生长相关性影响研究 李 炎 王 丹 王仰仁(56)
- 不同灌溉量与施氮量下稻田裸地氮素运移规律 马艳宝 童菊秀 马 越 等(62)
- 不同水氮处理对马铃薯土壤酶活性和产量的影响 王 顺 尹 娟 张海军 等(67)
- 低压对不同滴头水力技术指标的影响 郑国玉 马军勇 何 帅 等(74)
- 泰莱盆地地下水化学特征分类及成因分析 田明刚 徐 建 赵 耘 等(78)

Water Saving Irrigation

(Monthly)

August 2021

No.8(2021), Total No.312

Contents

Effects of Application Methods and Irrigation Amount on Dynamics of Soil Moisture and Maize Yield	WANG Li-shu, YANG Bao-bin, WANG Li-xuan, et al.(1)
Effects of Different Regulated Deficit Irrigation Modes on Growth, Physiology and Yield of Winter Wheat	WANG Dong-bo, WANG Shu-ji, HAN Yu-xin(8)
Research on Temperature Compensation Model for Soil Moisture Content Sensors Based XGBoost	SHEN Xin, WU Yong, MENG Fan-yu, et al.(13)
Research Progress of Rice Water-Saving Irrigation Technology Mode	MA Shi-hao, YANG Cheng, WANG Gui-bin, et al.(19)
Effects of Nitrogen Application of Drip Irrigation Under Mulch on Growth, Dry Matter and Yield of Maize in Aeolian Sandy Soil	GU Gui-dong, DOU Chao-yin, MENG Wei-zhong, et al.(25)
A Model for Predicting Chlorophyll a in a Medium-low Nutrient Lake	LIU Yu, ZHU Dan-yao(31)
Effects of Smart Fertilizer Under Alternate Wetting and Drying Irrigation on Yield and Water Use Efficiency of Rice	WANG Yi-tian, GUO Xiang-ping, Hamoud Yousef Alhaj, et al.(37)
Effects of Water Control and Fertilizer Saving Methods on Water and Fertilizer Utilization and Flue-cured Tobacco Seedling Quality	GAO Tian, WANG Jun-yi, CHEN Ya-ru, et al.(42)
An Analysis of the Integrated Measurement and Control Gate and Its Control Technology	HOU Wen-tao, BAI Mei-jian, CHEN Bing-shen, et al.(47)
Analysis of the Influence of Canal Lining Condition on Water Utilization Coefficient of Canal System	ZHOU Yu-qin, SHI Jia, WAN Xin(52)
A Study on Correlation of Winter Wheat Organ Growth Under Different Water and Nutrient Stress	LI Yan, WANG Dan, WANG Yang-ren(56)
Study on Nitrogen Transport in Bare Paddy Field Under Different Irrigation Amounts and Nitrogen Fertilizer Application Rates	MA Yan-bao, TONG Ju-xiu, MA Yue, et al.(62)
Effects of Different Water and Nitrogen Treatments on Soil Enzyme Activity and Yield of Potato	WANG Shun, YIN Juan, ZHANG Hai-jun, et al.(67)
The Effect of Low Pressure on the Hydraulic Technical Performance of Different Emitters	ZHENG Guo-yu, MA Jun-yong, HE Shuai, et al.(74)
Classification and Cause Analysis of Groundwater Chemical Characteristics in Tailai Basin	TIAN Ming-gang, XU Jian, ZHAO Yun, et al.(78)

Competent Authorities: Ministry of Water Resources

Sponsor: Chinese National Committee on Irrigation and Drainage

China Irrigation and Drainage Development Centre

Wuhan University

National Center of Efficient Irrigation Engineering and Technology Research-Beijing

Publisher and editor: Editorial Department of Water Saving Irrigation

(Wuhan University, Wuhan, 430072, China)

Editor in Chief: Cui Yuanlai **Distribute Scope:** Worldwide

Domestic Subscription: Every Post Office in China

E-mail: jieshuiguangai@188.com

Homepage: [http:// jsgu.cbpt.cnki.net](http://jsgu.cbpt.cnki.net)
