



ISSN 1001—5280
CN43—1110/S

作物研究

CROP RESEARCH

2023

1

Vol.37 No.1

第37卷 第1期

湖南农业大学
湖南省作物学会 主办

CROP RESEARCH

作物研究

ZUOWU YANJIU

(双月刊)

2023 年

第 37 卷 第 1 期

(总第 183 期)

2023 年 2 月出版

主 办: 湖南农业大学

湖南省作物学会

主 管: 湖南农业大学

编辑出版: 《作物研究》编辑部

主 编: 肖 应 辉

执行主编: 黄 敏

责任编辑: 张 秋 平

王 丹

发 行: 湖南省作物学会

印 刷: 长沙新鑫印务有限公司

国际标准连续出版物号: ISSN1001-5280

中国标准连续出版物号: CN43-1110/S

广告许可证号: 4301004000099

邮政编码: 410128

地 址: 长沙市芙蓉区农大路 1 号

电 话: 0731-84618573

采编平台: <http://zwjy.cbpt.cnki.net>

E-mail: hnzwxh@163.com

1421743155@qq.com

定 价: 10.00 元

目 次

●耕作栽培·生理生化

夏播京单 28 和郑单 958 的主要性状及气候资源利用率对比分析

..... 鲁珊,毛彩云,肖荷霞,岳金生,陆建章(1)

油菜缓释配方肥施用效果研究

王馨悦,欧阳凤仔,蔡辉,陈明,周莺,罗文辉,周琦娜,高彦妮,杨红兰,许煜峰(5)

油菜角果叶绿素提取方法研究

..... 戴悦,肖钢,陈浩,谭太龙,张振乾(10)

胡麻籽粒产量形成对干旱胁迫的响应及其模拟模型研究

..... 刘莹莹,李玥,吴兵(14)

湖南稻作烟区植烟土壤全氮分布特征及其主要影响因素

肖艳松,康力夫,李宏光,刘利佳,张阳,陈舜尧,秦凌,夏冰,邓小华(22)

磷肥减量施用对土壤磷含量、微生物群落及烟株磷吸收的影响

..... 李春顺,李伟鹏,付金存,汪金玲,李振武,范伟,柳立(28)

近 30 年宁乡烤烟气候变化特征及适宜性评价

向世鹏,周世民,喻杰,翟增光,张一扬,陈治峰,谢鹏飞,龙大彬,李强(35)

采收成熟度对稻茬烤烟上部 6 片烟叶质量的影响

李齐霖,金江华,李旭,李思军,侯建林,邓小强,吴文信,朱林,夏冰,邓小华(41)

可变频热泵密集烤房烟叶烘烤性能及效益分析

张纪利,孙成林,韦建玉,金亚波,贾海江,戴林建,穰中文,徐韵清,黄崇峻(49)

●遗传育种·种质资源

芥菜型油菜 *BjuA03*. *TTG2* 基因启动子克隆及表达载体构建

..... 喻文聪,袁玉辉,李湘,余子怡,伍佳好,向国红,刘显军(55)

多抗广适小麦新品种平麦 20 选育研究

耿若飞,张慧敏,常鸿杰,王二伟,樊振杰,余从文,贾真真,王春英(62)

丰产抗病大豆新品种沧豆 15 选育及栽培技术

曹金锋,孙永媛,孙强,张卫军,任宝华,高广居,胡铁欢,祁婧(66)

新疆伊犁河谷地区籽粒玉米新品种筛选

..... 刘强,廖必勇,杨明花,达吾来,王克如,孟庆长(69)

张杂谷 24 号的选育及栽培技术

范光宇,王千,白文杰,王晓明,孟帅,王峰,冯小磊,张丽娜,赵治海(74)

利用早代定向筛选与联合鉴定技术选育专用型甘薯品种的研究

..... 张道微,董芳,黄伯军,黄艳岚,张亚,项伟,张超凡(77)

●三农论坛

永州市小籽花生产业发展现状与对策

刘华龙,梁军,魏鑫,何利庭,何显文,何勉先,曾宁波,刘登望,李林(82)

农村劳动力转移对粮食生产的影响研究

邓梦秋,安海燕(87)

●研究进展

氮肥运筹对水稻镉吸收转运影响的研究进展

..... 陆汉唐,向焱赞,张玉盛,敖和军(93)

CROP RESEARCH

2023 Vol. 37 No. 1 (Sum. 183)

CONTENTS

● Tillage and Cultivation · Physiology and Biochemistry

- Comparative analysis on main characters and utilization rate of climate resources of summer sowing between Jingdan 28 and Zhengdan 958 LU Shan, MAO Caiyun, XIAO Hexia, YUE Jinsheng, LU Jianzhang (1)
- Application effect of rapeseed slow-released formula fertilizer WANG Xinyue, OUYANG Fengzai, CAI Hui, CHEN Ming, ZHOU Ying, LUO Wenhui, ZHOU Qina, GAO Yanni, YANG Honglan, XU Yufeng (5)
- Study on extraction method of chlorophyll from rape pod DAI Yue, XIAO Gang, CHEN Hao, TAN Tailong, ZHANG Zhenqian (10)
- Study on response of flax grain yield formation to drought stress and its simulation model LIU Yingying, LI Yue, WU Bing (14)
- Distribution characteristics of tobacco-growing soil total nitrogen and its main influencing factors in Hunan tobacco-rice rotation area QUAN Keying, XIAO Yansog, KANG Lifu, LI Hongguang, LIU Lijia, ZHANG Yang, CHEN Shunyao, QIN Ling, XIA Bing, DENG Xiaohua (22)
- Effects of reduced application of phosphate fertilizer on soil phosphorus content, microbial community and phosphorus uptake in tobacco plants LI Chunshun, LI Weipeng, FU Jincun, WANG Jinling, LI Zhenwu, FAN Wei, LIU Li (28)
- Climate change characteristics and suitability evaluation of flue-cured tobacco in Ningxiang during recent 30 years XIANG Shipeng, ZHOU Shimin, YU Jie, ZHAI Zengguang, ZHANG Yiyang, CHEN Zhifeng, XIE Pengfei, LONG Dabin, LI Qiang (35)
- Effect of harvesting maturity on the quality of the upper six leaves of rice crop roasted tobacco LI Qilin, KANG Lifu, LIU Lijia, JIN Jianghua, LI Xu, DENG Xiaoqiang, WU Wenxin, ZHU Lin, XIA Bin, DENG Xiaohua (41)
- Baking performance and benefit analysis of flue-cured tobacco in frequency conversion heat pump dense barn ZHANG Jili, SUN Chenglin, WEI Jianyu, JIN Yabo, JIA Haijiang, HUANG Chongjun (49)

● Crop Genetics · Germplasm Resources · Biotechnology

- Cloning of *BjuA03*. *TTG2* gene promoter from *Brassica juncea* and construction of its plant expression vectors YU Wencong, YUAN Yuhui, LI Xiang, YU Ziyi, WU Jiahao, XIANG Guohong, LIU Xianjun (55)
- Breeding of a new wheat variety Pingmai 20 with multiple resistance and wide adaptability GENG Ruofei, ZHANG Huimin, CHANG Hongjie, WANG Erwei, FAN Zhenjie, YU Congwen, JIA Zhenzhen, WANG Chunying (62)
- Breeding and cultivation techniques of a new soybean variety Cangdou 15 with high yield and disease resistance CAO Jinfeng, SUN Yongyuan, SUN Qiang, ZHANG Weijun, REN Baohua, GAO Guangju, HU Tiehuan, QI Jing (66)
- Screening of new corn varieties in Yili Valley, Xinjiang LIU Qiang, LIAO Biyong, YANG Minghua, DA Wulai, WANG Keru, MENG Qingchang (69)
- The breeding and cultivation technique of Zhangzagu No. 24 FAN Guangyu, WANG Qian, BAI Wenjie, WANG Xiaoming, MENG Shuai, WANG Feng, FENG Xiaolei, ZHANG Lina, ZHAO Zhihai (74)
- Research of specialised varieties breeding using early generation directed screening and joint identification techniques in sweet potato ZHANG Daowei, DONG Fang, HUANG Bojun, HUANG Yanlan, ZHANG Ya, XIANG Wei, ZHANG Chaofan (77)

● Three Rural Forum

- Present development situation and countermeasures of small-seed peanut industry in Yongzhou City LIU Hualong, LIANG Jun, WEI Xin, HE Liting, HE Xianwen, HE Mianxian, ZENG Ningbo, LIU Dengwang, LI Lin (82)
- Research on the impact of rural labor transfer on grain production DENG Mengqiu, AN Haiyan (87)

● Research Progress

- Research progress on effects of nitrogen fertilizer management on cadmium uptake and transport in rice LU Hantang, XIANG Yanyun, ZHANG Yusheng, AO Hejun (93)