

GENGZUO YU ZAIPEI

ISSN 1008-2239
CN 52-1065/S

耕作与栽培

Tillage and Cultivation

★ 贵州省第一届优秀期刊 ★ 中国核心期刊（遴选）数据库收录期刊 ★ 万方数据——数字化期刊群全文上网
★ 《中国期刊网》《中国学术期刊（光盘版）》全文收录期刊 ★ 《中文科技期刊数据库》全文收录期刊



耕作与栽培
2022年第3期
(总第247期)

ISSN 1008-2239



贵州农业职业学院 主办

2022 6月
第3期（双月刊）

耕作与栽培

(GENGZUO YU ZAIPEI)

第 42 卷 第 3 期 2022 年 06 月

双月刊(总第 247 期)

目 次

· 研究报告 ·

- 8 个金荞麦种质光合及光响应曲线特性研究
陈可可,黄 宣,黄莉娟,孙小富,赵丽丽 (1)
- 新麦系列品种主要产量性状分析
王士坤,杨丽娟,路永才,杨海峰,董彦琪,蒋志凯 (7)
- 融水香粳糯提纯复壮及品种改良研究
廖春良,曾华忠,杨光照,吴庚勇,莫荣清 (10)
- 新麦系列品种遗传基础及性状变化趋势研究
王映红,马华平,李晓航,王士坤,马晓红,董 昀 (15)
- 鲜艳乳菇母种培养基的配方优化研究
郑 旋,康 超,王 晶,曾维军,王万坤,杨彝华,向 准 (19)
- 不同种植密度对玉米新品种郑单 5179 生长及产量的影响
齐建双,夏来坤,马智艳,丁 勇,李春盈,唐保军,张凤启,张 君,穆心愿,赵发欣 (24)
- 吉林省西部干旱地区优质谷子品种筛选
刘婷婷,王 辉,冷静文,郝曦煜,宫世航,刘 伟,王立群,程微娜 (28)
- 芦笋雄性两性株的外部形态特征研究
李 霞,李保华,包艳存,牛晓雪,路 远,牟 萌,杨 林 (33)
- 红缨子高粱植物学特征及生物量的研究
潘昌滨,张金梁,汪弋盟,王 聪,钟宁强,潘自平 (37)
- 化肥减量配施有机硅有机肥对盐碱土改良及玉米产量的影响
肖占文,鄂利锋,任建忠,袁群英,程红玉,谷科强,王治江,高小军 (42)
- 山地烟叶长及其钾氯含量的相关性研究
汤雯雯,刘 琳,陈 飞,朱徐睿,刘梓安,吴文龙,朱英华 (46)
- 不同药剂组合对马铃薯晚疫病的防治效果
莫庆忠,吕树鸣,岳永贵,罗 凯,吕金丽,吴 迪 (50)

· 综 述 ·

- 密蒙花药用资源分布及现代药理研究进展
龙登凯,宋善敏,艾 强,王思花,杜富强,魏怡冰 (53)
- 贵州辣椒育种研究进展
赵靛瑜,王洪亮,吴康云 (56)

· 问题探讨 ·

- 不同生育期氮肥施用量对稻米品质的影响
蒙秀菲,伍 祥,金 明,张上都,彭 菊,曾 涛,周乐良,陈文强,熊玉堂,张元虎 (59)
- 高产优质鲜食糯玉米品种筛选研究
孙海潮,张莹莹,张晓辉,牛永锋,张 盼,史丽丽,董文恒,李永江,庞文喜,卢道文 (62)
- 新疆博州节水灌溉条件下玉米适宜性筛选评价
董秀丽,毛国锋,王 珊,闫靖华,刘 娜,戴爱梅,李俊杰,张玉霞,艾力禾木 (66)
- 中高海拔地区春玉米对比试验
张建强,吉凤桂,李文林,杨保中,杨延萍,罗玉梅,张中华,单 艳 (70)
- 控温 1 号缓释掺混肥料对玉米生长及产量的影响
王从欣,朱容辰,郭玉玲 (73)
- 6 个优质红米品种引种试验初报
严 菊,刘衍彬,李治福,黄光文,李世刚 (75)
- 太湖地区优质稻米生产技术集成
李育娟,周正权,王坚钢,蔡克成,鲁 超,周丽瑶 (78)

猕猴桃磷肥总量控制试验分析 陈开富,刁艳梅,高翔,汪丰琴,王凯旋,吴道明	(83)
正安县鲜食糯玉米品种比较试验 冯育伟,赵小敏,袁雨晴,苟开礼	(86)
不同蚕豆品种农艺性状及抗性分析 苏晚会,管正策,吴亨进,廖晨鹭,王开猛,李承波,谯莉萍	(89)
测土配方施肥对玉米肥料利用率的影响 张燕,丁敏,王秋,王瑜,潘小宇	(92)
· 植物资源 ·	
重庆阴条岭国家级自然保护区蕨类植物新记录 陈锋,熊驰	(95)
三系杂交中粳新组合川优542的选育与应用 蔡娟,王刚,姚健,陈继富,李春勇,李洪胜,李继辉,黄海清	(100)
· 良种良法 ·	
节水耐旱冬小麦新品种长麦3809选育研究 刘丽,明庭会,陈诚,常云龙,袁峰,刘彤	(103)
三系杂交稻赣优735的特征特性及栽培技术 陆晓清,唐继生,王世杰,兰健源	(106)
优质、高产粳稻新品种松粳208的选育及栽培技术 高洪儒,张国民,张君,赵北平,马军韬,邓凌韦,王永力,王南博	(108)
内蒙古中西部青贮玉米绿色栽培技术研究 王岩,王绎,陈新华,宋伟,张秋颖	(111)
玉米新品种新中玉4号的选育及应用 罗勇,廉书华,舒中兵,刘文亮,王进	(113)
· 应用技术 ·	
药材丹参高效栽培技术要点 杨红旗,安素妨,鲁丹丹,李磊,梁慧珍	(116)
宁夏干旱半干旱区高粱覆膜栽培技术 罗世武,李凯,程炳文	(119)
基于 Zigbee-Wifi 技术的茶园自动化实时监控系统建设 党永超	(121)
贵州梯田机械化保护性耕作技术探讨 刘芳,明莉,冯梅	(125)
强优势玉米品种引智创新及绿色控污增效技术 何川,唐明双,王颖,蒲全波,杨云,杨华,邱正高,郑祖平,况福虹,蔡艳	(127)
修文县贵长猕猴桃高产高效栽培技术 周艳	(131)
· 经验交流 ·	
滨州市植物种质资源现状及发展策略 张晓博,杨桦,冯会,胡洪涛	(134)
贵阳市李产业现状和发展对策 宋琰,顾志英	(137)
贵州辣椒产业集群建设项目的现状与建议 付浩,夏忠敏,张小明	(140)
安顺市平坝区蔬菜产业发展现状及对策 王菊,李晓慧	(143)
贵州省鲜食玉米种植概况与发展对策 黄建翔,喻本雨,冯旭东,梁大敏,卢聪,田维友,曹红	(145)
新疆伊犁河谷小麦生产现状及对策建议 李美宁,李志友,耿卫东	(147)
习水县高粱种植产业发展优势、问题及对策分析 李魁印,李志友,周洪敏,司元进,李令	(151)
伊犁河谷农作物早春冻害调查分析及抗寒关键技术探究 董灿兴,徐凤杰,曹永富,李成忠,迪丽孜拉,罗新湖	(154)

Tillage and Cultivation

Vol.42 No.3 June 2022

Bimonthly(Total No.247)

CONTENTS

Research Reports

- Study on photosynthesis and light response curve characteristics of 8 *Fagopyrum dibotrys* germplasm
..... CHEN Keke, HUANG Xuan, HUANG Lijuan, SUN Xiaofu, ZHAO Lili (1)
- Analysis on main yield characters and agronomic traits of Xinmai series
..... WANG Shikun, YANG Lijuan, LU Yongcai, YANG Haifeng, DONG Yanqi, JIANG Zhikai (7)
- Study on purification, rejuvenation and variety improvement of fragrant glutinous japonica rice with Rongshui
..... LIAO Chunliang, ZENG Huazhong, YANG Guangzhao, WU Gengyong, MO Rongqing (10)
- Study on genetic basis and character change trend of Xinmai series varieties
..... WANG Yinghong, MA Huaping, LI Xiaohang, WANG Shikun, MA Xiaohong, DONG Yun (15)
- Study on the optimum formula of the culture medium of *Lactarius vividus*
..... ZHENG Xuan, KANG Chao, WANG Jing, ZENG Weijun, WANG Wankun, YANG Yihua, XIANG Zhun (19)
- Effects of planting density on biological characters and yield of new maize variety Zhengdan 5179
..... QI Jianshuang, XIA Laikun, MA Zhiyan, DING Yong, LI Chunying, TANG Baojun,
ZHANG Fengqi, ZHANG Jun, MU Xinyuan, ZHAO Faxin (24)
- Millet varieties selection for arid area in the western part of Jilin province
.....
LIU Tingting, WANG Hui, LENG Jingwen, HAO Xiyu, GONG Shihang, LIU Wei, WANG Liqun, CHENG Weina (28)
- Research on morphological characteristics of the andromonoecious plants of *Asparagus officinalis* L.
..... LI Xia, LI Baohua, BAO Yancun, NIU Xiaoxue, LU Yuan, MU Meng, YANG Lin (33)
- Botanical characteristics and biomass of Hongyingzi sorghum
..... PAN Changbin, ZHANG Jinliang, WANG Yimeng, WANG Cong, ZHONG Ningqiang, PAN Ziping (37)
- Effects of chemical fertilizer reduction and application of organic silicon organic fertilizer on saline-alkali soil improvement and corn yield
..... XIAO Zhanwen, E Lifeng, REN Jianzhong, YUAN Qunying, CHENG Hongyu,
GU Keqiang, WANG Zhijiang, GAO Xiaojun (42)
- Correlation research between leaf length and potassium chloride content of flue-cured tobacco in mountainous areas
..... TANG Wenwen, LIU Lin, CHEN Fei, ZHU Xurui, LIU Zi'an, WU Wenlong, ZHU Yinghua (46)
- Effect on the control of potato late blight with different combination of medicines
..... MO Qingzhong, LÜ Shuming, YUE Yonggui, LUO Kai, LÜ Jinli, WU Di (50)

Reviews

- The distribution of the medicinal resource and pharmacological activities of *Buddleja officinalis* Maxim.
..... LONG Dengkai, SONG Shanmin, AI Qiang, WANG Enhua, DU Fuqiang, WEI Yibing (53)
- Research progress of breeding of pepper in Guizhou
..... ZHAO Liangyu, WANG Hongliang, WU Kangyun (56)

Discussion

- Effects of nitrogen fertilizer application at different growth stages on rice quality
..... MENG Xiufei, WU Xiang, JIN Ming, ZHANG Shangdu, PENG Ju, ZENG Tao,
ZHOU Leliang, CHEN Wenqiang, XIONG Yutang, ZHANG Yuanhu (59)
- Screening of varieties of high yield and good quality fresh waxy corn
..... SUN Haichao, ZHANG Yingying, ZHANG Xiaohui, NIU Yongfeng, ZHANG Pan,
SHI Lili, DONG Wenheng, LI Yongjiang, PANG Wenxi, LU Daowen (62)
- Suitability screening and evaluation of maize under water saving irrigation in Bozhou, Xinjiang
.....
DONG Xiuli, MAO Guofeng, WANG Shan, YAN Jinghua, LIU Na, DAI Aimei, LI Junjie, ZHANG Yuxia, Elham (66)
- Comparative experiment of spring maize in middle and high altitude areas
..... ZHANG Jianqiang, JI Fenggui, LI Wenlin, YANG Baozhong, YANG Yanping,
LUO Yumei, ZHANG Zhonghua, DAN Yan (70)
- Effects of controlled temperature No.1 sustained-release fertilizer on maize growth and yield
..... WANG Congxin, ZHU Rongchen, GUO Yuling (73)
- Preliminary report on introduction experiment of 6 high quality red rice varieties

- YAN Ju, LIU Yanbin, LI Zhifu, HUANG Guangwen, LI Shigang (75)
 Integration of high quality rice production technology in Taihu region
 LI Yujuan, ZHOU Zhengquan, WANG Jiangang, GONG Kecheng, LU Chao, ZHOU Liyao (78)
 Study on total amount control of phosphorus fertilizer on kiwifruit
 CHEN Kaifu, DIAO Yanmei, GAO Xiang, WANG Fengqin, WANG Kaixuan, WU Daoming (83)
 Comparative experiment of fresh waxy corn varieties in Zheng'an county
 FENG Yuwei, ZHAO Xiaomin, YUAN Yuqing, GOU Kaili (86)
 Analysis on agronomic characters and resistance of different faba bean varieties
 SU Xiaohui, GUAN Zhengce, WU Hengjin, LIAO Chenlu, WANG Kaimeng, LI Chengbo, QIAO Liping (89)
 Effect of soil testing and formula fertilization on fertilizer utilization rate of maize
 ZHANG Yan, DING Min, WANG Qiu, WANG Yu, PAN Xiaoyu (92)

Plant Resources

- Newly recorded ferns from yintiaoling national nature reserve of Chongqing
 CHEN Feng, XIONG Chi (95)
 Breeding and application of Chuanyou 542, a new three-line medium indica hybrid rice combination
 CAI Juan, WANG Gang, YAO Jian, CHEN Jifu, LI Chunyong, LI Hongsheng, LI Jihui, HUANG Haiqing (100)

Fine Seed and Method

- Breeding research of new winter wheat variety Changmai 3809 with water saving and drought tolerance
 LIU Li, MING Tinghui, CHEN Cheng, CHANG Yunlong, YUAN Feng, LIU Tong (103)
 Characteristics and cultivation techniques of three line hybrid rice Ganyou 735
 LU Xiaoqing, TANG Jisheng, WANG Shijie, LAN Jianyuan (106)
 Breeding and cultivation techniques of new japonica rice variety Songjing 208 with good quality and high yield

 GAO Hongru, ZHANG Guomin, ZHANG Jun, ZHAO Beiping, MA Juntao, DENG Lingwei, WANG Yongli, WANG Nanbo (108)
 Green cultivation techniques of silage corn in central and western Inner Mongolia
 WANG Yan, WANG Yi, CHEN Xinhua, SONG Wei, ZHANG Qiuying (111)
 Breeding and application of new hybrid variety Xinzhongyu 4
 LUO Yong, LIAN Shuhua, SHU Zhongbing, LIU Wenliang, WANG Jin (113)

Application Technologies

- High-efficient cultivation techniques of medical *Salvia miltiorrhiza* Bge.
 YANG Hongqi, AN Sufang, LU Dandan, LI Lei, LIANG Huizhen (116)
 Cultivation techniques of sorghum covered with plastic film in arid and semi-arid areas of Ningxia
 LUO Shiwu, LI Kai, CHENG Bingwen (119)
 Construction of automatic Real-time monitoring system for tea garden based on Zigbee-Wifi technology
 DANG Yongchao (121)
 Discussion on mechanized conservation tillage techniques for terraced fields in Guizhou province
 LIU Fang, MING Li, FENG Mei (125)
 Introduction and innovation of strong advantage maize varieties and green pollution control and efficiency enhancement technology
 HE Chuan, TANG Mingshuang, WANG Ying, PU Quanbo, YANG Yun,
 YANG Hua, QIU Zhenggao, ZHENG Zuping, KUANG Fuhong, CAI Yan (127)
 High yield and high efficiency cultivation techniques of kiwifruit in Xiuwen county
 ZHOU Yan (131)

Exchange of Experience

- Current situation and development strategy of plant germplasm resources in Binzhou city
 ZHANG Xiaobo, YANG Hua, FEGN Hui, HU Hongtao (134)
 Current situation and development countermeasures of plum property in Guiyang
 SONG Yan, GU Zhiying (137)
 Current situation and suggestions of pepper industry cluster construction in Guizhou
 FU Hao, XIA Zhongmin, ZHANG Xiaoming (140)
 Development status and countermeasures of vegetable industry in pingba district of Anshun City
 WANG Ju, LI Xiaohui (143)
 Planting situation and development countermeasures of fresh corn in Guizhou province
 HUANG Jianxiang, YU Benyu, FENG Xudong, LIANG Damin, LU Cong, TIAN Weiyong, CAO Hong (145)
 Present situation and countermeasure of wheat production in Ili valley of Xinjiang
 LI Meining, GENG Weidong (147)
 Analysis of the advantages, problems and countermeasures of sorghum cultivation industry development in Xishui county
 LI Kuiyin, LI Zhiyou, ZHOU Hongmin, SI Yuanjin, LI Ling (151)
 Investigation and analysis of early spring freezing injury of crops in Yili river valley and key techniques of cold resistance
 DONG Canxing, XU Fengjie, CAO Yongfu, LI Chengzhong, DI Lizila, LUO Xinqu (154)