

ISSN 1001-4705
CN 52-1066/S

种子月刊

SEED

种子
2022年
第一期
出版第349期
SEED 2022 No. 1 Total No. 349



第二届国家期刊奖百种重点期刊

全国中文核心期刊

中国科技核心期刊

中国农业核心期刊

中国期刊方阵双效期刊

全国优秀科技期刊

贵州省优秀期刊奖期刊

主办：贵州农业职业学院 贵州省种子管理站

万方数据

1

2022

1月 第41卷

种 子

(ZHONG ZI)

第 41 卷 第 01 期 2022 年 1 月

月刊(1981 年创刊 总第 349 期)

目 次

研究报告

茎干通直与弯扭的云南松半同胞家系子代苗期生长表现

李江飞, 李亚麒, 陈诗, 蔡年辉, 李熙颜, 王丹, 朱雅静, 许玉兰 (1)

不同种源血人参种子特性和萌发差异研究

张娜, 吴媛, 吴之坤 (7)

氧化石墨烯对紫穗槐种子萌发及幼苗生长的影响

刘顿, 吕月玲, 骆汉 (14)

苦荞重金属富集特征及低积累品种筛选

毛旭, 龚思同, 舒洁, 皮永菲, 娄飞, 马智點, 钱晓莉, 何腾兵, 付天岭 (19)

20 种鸢尾属植物种子休眠与萌发响应机制研究

朱莹, 宋华, 张琮琦, 邓莲, 安晖, 张蕾 (26)

入侵植物黄花草木樨的生殖构件性状及种子萌发特性研究

钟娟, 兰世超, 杨佳琴, 刘国伟, 胡华林, 周兵 (38)

都匀毛尖茶非靶向代谢组学研究

王春波, 吕辉, 韦玲冬, 郭治友 (44)

鸢尾种质资源抗旱性综合评价及生理机制研究

薛新平, 薄伟, 王松, 康红梅, 王晋 (49)

不同胁迫对新疆大叶补血草种子萌发的影响

梅新娣, 张凤萍, 代婷 (56)

综 述

小麦杂种优势利用研究进展

陈晓杰, 杨保安, 范家霖, 张福彦, 程仲杰, 王嘉欢, 张建伟 (66)

万方数据

资源与利用

224 个谷子品种农艺性状聚类和相关性分析

赵 芳,魏 玮,张晓磊,宋国亮,王晓明,赵治海,赵春慧 (74)

基于 ISSR 标记的贵州山核桃遗传多样性分析

郭计华,程 敏,苗贵东,夏可灿,张 培,张万芹,蔺维成,王颖娟 (84)

问题探讨

辽宁滨海稻区粳稻种质耐盐性筛选与评价

李 旭,付立东,王 宇,隋 鑫,任 海,吕小红,马 畅,杜 萌,毛 艇 (89)

应用模糊隶属函数法对高粱种质资源的农艺性状和品质性状进行综合评价

周福平,史红梅,张海燕,杨 彬,闫凤霞 (94)

旱作丘陵区黍子品种产量与主要性状通径分析

曹宇嘉,刘景辉,米俊珍,王 英 (99)

射干种子萌发的影响因素及其对 NaCl 胁迫的响应

耿晓东,吉爱伟,周 英,汪成忠,钱剑林 (106)

角蒿种子形态与萌发特性研究

张 炜,翁昊宇,王欣弘,孙 阖 (111)

小麦穗型突变体(库)的创制、鉴定及其遗传分析

王黎明,陈君燚,姬敬敬,孔维玮,柳志浩,董普辉 (117)

河北省旱碱麦品质和抗性相关基因的 KASP 标记检测

王 伟,张 寅,王 志,张卫军,王伟伟,于 亮,钮力亚,王奉芝,张景俭 (123)

玉米杂交种北青 340 及亲本指纹图谱构建

陈国立,张瑞平,许卫猛,孙 佩,魏常敏,邢永锋 (129)

36 份玉米自交系亲缘关系分析

宋新莉,史庆玲,董永彬,李玉玲 (133)

品种选育研究

云南省蚕豆新品种联合区域试验试点综合评价

段银妹,尹雪芬,陈国琛,李 江,张炳英,李春梅,杨 芬,张鹏顺 (138)

谷子新品种郑农谷 09-6 优良特性分析及应用

樊永强,郜惠苹,王彦辉,刘劲哲,苗兆丰,董亚南,韩燕丽 (143)

SEED

Vol.40 No.01 January 2022

Monthly(Total No.349)

CONTENTS

Research Reports

- Seedling growth performance of half-sib families progenies of *Pinus yunnanensis* with characteristics of straight stems and twisted stems LI Jiangfei, LI Yaqi, CHEN Shi, CAI Nianhui, LI Xiyan, WANG Dan, ZHU Yajing, XU Yulan (1)
- Study on seed characteristics and germination of *Indigofera stachyodes* from different provenances ZHANG Na, WU Yuan, WU Zhikun (7)
- Effects of oxidized graphene on seed germination and seedling growth of *Amorpha fruticosa* LIU Dun, LÜ Yuejing, LUO Han (14)
- Study on characteristics of heavy metal enrichment and screening of tartary buckwheat varieties with low accumulation of heavy metal MAO Xu, GONG Sitong, SHU Jie, PI Yongfei, LOU Fei, MA Zhixia, QIAN Xiaoli, HE Tengbing, FU Tianling (19)
- Response mechanism of seed dormancy and germination in 20 species of *Iris* plants ZHU Ying, SONG Hua, ZHANG Congqi, DENG Lian, AN Hui, ZHANG Lei (26)
- Study on characteristics of reproductive structures and seed germination of invasive plant *Melilotus officinalis* ZHONG Juan, LAN Shichao, YANG Jiaqin, LIU Guowei, HU Hualin, ZHOU Bing (38)
- Study on untargeted metabolomics of duyun maojian tea WANG Chunbo, LÜ Hui, WEI Lingdong, GUO Zhiyou (44)
- Comprehensive evaluation and physiological mechanism of drought resistance of *Iris* germplasm resources XUE Xinping, BO Wei, WANG Song, KANG Hongmei, WANG Jin (49)
- Effects of different stresses on seed germination physiology of *Limonium gmelinii* in Xinjiang MEI Xindi, ZHANG Fengping, DAI Ting (56)

Reviews

Advances in utilization of heterosis in wheat

... CHEN Xiaole, YANG Baoan, FAN Jialin, ZHANG Fuyan, CHENG Zhongjie, WANG Jiahuan, ZHANG Jianwei (66)

Resources and Utilization

Clustering and correlation analysis of agronomic traits of 224 millet varieties

..... ZHAO Fang, WEI Wei, ZHANG Xiaolei, SONG Guoliang, WANG Xiaoming, ZHAO Zhihai, ZHAO Chunhui (74)

Genetic diversity analysis of *Carya cathayensis* in Guizhou based on ISSR markers

..... GUO Jihua, CHENG Min, MIAO Guidong, XIA Kecan, ZHANG Pei,
ZHANG Wanqin, LIN Weicheng, WANG Yingjuan (84)

Discussion

Screening and evaluation of salt tolerance of japonica rice germplasms in coastal rice region of Liaoning

..... LI Xu, FU Lidong, WANG Yu, SUI Xin, REN Hai, LÜ Xiaohong, MA Chang, DU Meng, MAO Ting (89)

Comprehensive evaluation of agronomic and qualitative traits of sorghum germplasm resources based on fuzzy membership function method ZHOU Fuping, SHI Hongmei, ZHANG Haiyan, YANG Bin, YAN Fengxia (94)

Path analysis of yield and main traits of millet varieties in upland hilly region

..... CAO Yujia, LIU Jinghui, MI Junzhen, WANG Ying (99)

Influence factors of seed germination of *Belamcanda chinensis* and its response to NaCl stress

..... GENG Xiaodong, JI Aiwei, ZHOU Ying, WANG Chengzhong, QIAN Jianlin (106)

Study on seed morphology and germination characteristics of *Incarvillea sinensis*

..... ZHANG Wei, WENG Haoyu, WANG Xinhong, SUN Yan (111)

Creation, identification and genetic analysis of library of spike-type wheat mutants

..... WANG Liming, CHEN Junyi, JI Jingjing, KONG Weiwei, LIU Zhihao, DONG Puhui (117)

Detection of quality and resistance-related genes by KASP markers in dry-alkali wheat of Hebei province

..... WANG Wei, ZHANG Chen, WANG Zhi, ZHANG Weijun, WANG Weiwei,
YU Liang, NIU Liya, WANG Fengzhi, ZHANG Jingjian (123)

Construction of maize hybrid Beiqing 340 and its parents' fingerprint

..... CHEN Guoli, ZHANG Ruiping, XU Weimeng, SUN Pei, WEI Changmin, XING Yongfeng (129)

Genetic relationship analysis of 36 maize inbred lines

..... SONG Xinli, SHI Qingling, DONG Yongbin, LI Yuling (133)

Varieties Breeding and Research

Comprehensive evaluation of joint regional trial of new broad bean varieties in Yunnan province

..... DUAN Yinmei, YIN Xuefen, CHEN Guochen, LI Jiang, ZHANG Bingying,
LI Chunmei, YANG Fen, ZHANG Pengshun (138)

Analysis and application of new millet variety Zhengnonggu 09-6

..... FAN Xiangqiang, GAO Huiping, WANG Yanhui, LIU Jinzhe, MIAO Zhaofeng, DONG Ya'nan, HAN Yanli (143)
万方数据