



ISSN 1002-2481
CN 14-1113/S

山西農業科學

JOURNAL OF SHANXI AGRICULTURAL SCIENCES

SHANXI NONGYE KEXUE

第48卷第1期（总第407期）

- 中国科技核心期刊
- 中国学术期刊综合评价数据库（CAJCED）统计源期刊
- 中国期刊全文数据库（CJFD）全文收录
- 中国核心期刊（遴选）数据库全文上网
- 中文科技期刊数据库全文收录
- 超星期刊域出版平台全文收录

2020 1
Vol.48 No.1

ISSN 1002-2481

万方数据

山西省农业科学院 主办

目 次

遗传育种

- 国审抗旱高产小麦新品种晋育8155的选育 马小飞,高宇,王敏,等(1)
玉米自交系与杂交种苗期根和叶的相关关系分析 郑向阳,李会霞,田岗,等(5)
早熟玉米新品种航天358选育及栽培技术 范瑞,陈永欣,王早荣,等(9)
抗豆象绿豆种质晋中10号的选育与栽培技术 权彪(12)
普通菜豆抗旱性品种筛选 周丹,邢国明,郑少文(15)
不同黑花生品种的抗旱性鉴定评价 李楠,赵玉坤,宁东贤,等(23)

生物技术

- 不同甘薯品种及其辐射诱变后代基因组变异的分子标记评价 刘家榜,赵珊,张聪,等(26)
3种萱草属植物染色体核型分析 李永平,贾民隆,梁峥,等(32)

生理生化

- 芽孢杆菌菌株TYF-B5-5的产乙醇特性及其全基因组测序分析 郭宴君,樊璐璐,何永吉,等(35)
一株腐败希瓦菌的药敏试验及其与沙门氏菌的差异性比较 高顺华,王兴敏,刘菲,等(40)
羊肚菌抗氧化肽的制备、纯化和鉴定 范三红,田雨,张锦华(45)
转基因棉花品系3H-52的抗旱性分析 李静,张换样,朱永红,等(52)
不同种皮色绿豆黄酮类含量的初步研究 廉雪,张耀文(55)
基于可见/近红外光谱西葫芦硬度的无损检测模型的建立 邢书海,张淑娟,孙海霞,等(58)
臭氧处理对3种蔬菜种子发芽率的影响 张治家,刘红艳,房雅丽,等(61)
不同草莓品种营养成分比较与品种筛选 白胜,朱润华,阳圣莹,等(64)

耕作与栽培

- PPC生物降解渗水地膜覆盖高粱试验 毕昕媛,姚建民,杨三维,等(68)
节水简约化栽培对温室微型白菜生长的影响 赵美华,梁艺,赵军良(71)
种苗等级和密度对潞党参产量和商品质量的影响 肖淑贤,王旭峰,李军,等(73)

资源与环境

- 伊犁河谷雨养旱地栗钙土不同产量小麦土壤肥力差异分析 陈传信,赛力汗·赛,张永强,等(76)
生物炭配施化肥对土壤肥力及玉米生长的影响 吕贝贝,张丽萍,张贵云,等(81)
砂姜黑土区不同品种花生干物质积累和氮磷钾养分需求的差异 司贤宗,张翔,索炎炎,等(87)

植物保护

- 莠去津对春谷田杂草的防除效果 常乐,王丽霞(92)
山西汾西县扁桃林北社鼠的种群年龄结构分析 常文英,白一丹,邹波,等(96)
管涔林区怀道林场华北落叶松鞘蛾生物学调查 宗彦平(99)

畜牧兽医

- 过氧乙酸戊二醛复方消毒剂对蜡样杆菌芽孢杀菌效果评估 弥成龙,郭亮,郑明学,等(103)

信息技术

- 基于物联网技术的高标准农田建设模式初探——以天津市大钟庄农场为例 李建华,郝忻,牛明雷(106)

综 述

- 山西省甜糯等特用玉米研究进展及发展前景 孟俊文,马海林,王笑,等(110)
砧木对苹果接穗品种果实品质影响的研究进展 李春燕,杨廷桢,高敬东,等(114)
枣生物活性物质鉴定评价研究进展 薛晓芳,赵爱玲,任海燕,等(117)
养殖废弃物治理路径及管理模式研究进展 樊丽霞,杨映礼,尹芳,等(122)
耐性植物种类研究进展 陈慧芳,王云平(126)

CONTENTS

●Genetics and breeding

Breeding of a New Drought-Resistant, High-Yield and National Validation Wheat Variety Pinyu 8155 MA Xiaofei, GAO Yu, WANG Min, et al(1)

Correlation Analysis of Roots and Leaves at Seedling Stage between Maize Inbred Lines and Hybrids ZHENG Xiangyang, LI Huixia, TIAN Gang, et al(5)

Breeding and Cultivation Techniques of New Early-matured Maize Variety Hangtian 358 FAN Rui, CHEN Yongxin, WANG Zaorong, et al(9)

Breeding and Cultivation Techniques of Jinzhong 10 of Mung Bean Germplasm Resources Resistant to Bruchid Weevil QUAN Biao(12)

Screening of Drought-resistant Varieties of Common Bean (*Phaseolus vulgaris* L.) ZHOU Dan, XING Guoming, ZHENG Shaowen(15)

Identification and Evaluation of Drought Resistance of Different Black Peanut Varieties LI Nan, ZHAO Yukun, NING Dongxian, et al(23)

●Biotechnology

Molecular Marker Evaluation of Genomic Variation of Different Sweetpotato Varieties and Their Radiation Induced Progenies LIU Jiabang, ZHAO Shan, ZHANG Cong, et al(26)

Karyotype Analysis of Three Species of *Hemerocallis* LI Yongping, JIA Minlong, LIANG Zheng, et al(32)

●Physiology and biochemistry

Ethanol Production Optimization and Whole Genome Sequencing Analysis of *Bacillus* sp. TYF-B5-5 GUO Yanjun, FAN Lulu, HE Yongji, et al(35)

Drug Sensitivity Test of *Shewanella putrefaciens* and Comparison With *Salmonella* GAO Shunhua, WANG Xingmin, LIU Fei, et al(40)

Preparation, Purification and Identification of Antioxidant Polypeptide from *Morchella esculenta* FAN Sanhong, TIAN Yu, ZHANG Jinhua(45)

Drought Resistance Analysis of Transgenic Cotton Line 3H-52 LI Jing, ZHANG Huanyang, ZHU Yonghong, et al(52)

Preliminary Study on Flavonoids Content of Mung Bean in Different Seed Coat Color LIAN Xue, ZHANG Yaowen(55)

Establishment of Nondestructive Testing Model of Zucchini Hardness Based on Visible/Near Infrared Spectrum XING Shuhai, ZHANG Shujuan, SUN Haixia, et al(58)

Effects of Ozone Treatment on Germination Rate of Three Vegetable Seeds ZHANG Zhijia, LIU Hongyan, FANG Yali, et al(61)

Nutrients Comparison and Screening of Different Strawberry Varieties BAI Sheng, ZHU Runhua, YANG Shengying, et al(64)

●Cultivation

Experiment of Sorghum Covered with PPC Biodegradable Water Permeable Film BI Xinyuan, YAO Jianmin, YANG Sanwei, et al(68)

Effect of Water-saving and Simplified Cultivation on the Growth of Miniature Chinese Cabbage in Greenhouse ZHAO Meihua, LIANG Yi, ZHAO Junliang(71)

Effects of Different Seedling Grades and Density on Yield and Commodity Quality of *Codonopsis pilosula* XIAO Shuxian, WANG Xufeng, LI Jun, et al(73)

●Resources and environment

Analysis on Differences of Soil Fertility from Different Wheat Yield Farmland of Rainfed Upland Chestnut Soil in Yili Valley Plain CHEN Chuixin, SAI Sailihan, ZHANG Yongqiang, et al(76)

Effects of Biochar and Fertilizer Application on Soil Fertility and Maize Growth LYU Beibei, ZHANG Liping, ZHANG Guiyun, et al(81)

Differences of Dry Matter Accumulation and Requirement in Nitrogen, Phosphorus and Potassium of Different Varieties Peanut in Vertisol Soil SI Xianzong, ZHANG Xiang, SUO Yanyan, et al(87)

●Plant protection

Control Effects of Atrazine on Weeds in Spring Millet Fields CHANG Le, WANG Lixia(92)

Analysis on Age Structure of *Niviventer confucianus* Populations of Almond Forest in Fenxi County of Shanxi Province CHANG Wenying, BAI Yidan, ZOU Bo, et al(96)

Biological Investigation of *Coleophora sinensis* Yang in Huaidao Forest Farm, Guanceen Forest District ZONG Yanping(99)

●Animal husbandry and veterinary

Evaluation of Germicidal Efficacy of Glutaraldehyde Peroxide Compound Disinfectant on *Bacillus cereus* Spores MI Chenglong, GUO Liang, ZHENG Mingxue, et al(103)

●Information technology

Preliminary Study on the High Standard Farmland Construction Model Based on Internet of Things Technology—Taking Dazhongzhuang Farm in Tianjin as an Example LI Jianhua, HAO Xin, NIU Minglei(106)

●Review

Research Progress and Development Prospect of Sweet and Waxy Maize in Shanxi Province MENG Junwen, MA Hailin, WANG Xiao, et al(110)

Research Progress on Effect of Rootstock on Fruit Quality of Scion Variety in Apple LI Chunyan, YANG Tingzhen, GAO Jingdong, et al(114)

Research Progress on Identification and Evaluation of Bioactive Substances in Chinese Jujube XUE Xiaofang, ZHAO Ailing, REN Haiyan, et al(117)

Research Progress of the Governance Path and Management Mode of Livestock and Poultry Waste FAN Lixia, YANG Yingli, YIN Fang, et al(122)

Research Progress on Tolerant Plant Species CHEN Huifang, WANG Yunping(126)