



ISSN 1002-2481
CN 14-1113/S

JOURNAL OF SHANXI AGRICULTURAL SCIENCES
SHANXI NONGYE KEXUE

山西農業科學



- 中国科技核心期刊
- RCCSE 中国核心学术期刊
- 中国农林核心期刊
- 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

7 2021

第49卷 第7期 (总第425期)
Vol.49 No.7

ISSN 1002-2481



山西省农业科学院 主办

目 次

生物技术

- 小麦 *TraesCS7A02G543300* 基因的克隆及生物信息学分析 杨 苗, 黄文芳, 王雪琳, 等(797)

生理生化

- EMS 诱变对高粱种子萌发及农艺性状的影响 聂萌恩, 柳青山, 范昕琦, 等(802)

- 大豆不同品种泌蜜量和花朵挥发性成分分析 雷 佳, 马卫华, 李 捷, 等(807)

- ^{137}Cs γ 射线对绿豆种子诱变效应及适宜诱变剂量探讨 申慧芳, 郭 锋(813)

- 干旱胁迫下 EMS 诱变花生后代突变体萌发期抗旱性评价 杨秀丽, 宁东贤, 周红琴, 等(817)

- 镉胁迫对蓖麻有机酸含量及镉吸收的影响 王沛琦, 胡尊红, 胡学礼, 等(822)

- 外源褪黑素对黄瓜幼苗生长特性的影响 刘婷婷, 翟锡姣, 卫旭阳, 等(828)

- NaCl 胁迫对设施樱桃幼苗光合特性、叶绿素荧光及渗透调节物质的影响

..... 束 靖, 刘素慧, 张爱花, 等(834)

- 核桃青皮主要功能成分变化规律 左力翔, 牛 艳, 安晓宁, 等(839)

- 不同盐胁迫对苦豆子种子萌发及幼苗生长的影响 赵 露, 苗玉华, 吴儒琳, 等(844)

遗传育种

- 晋北区胡麻品种(系)产量构成因素相关性分析 焦振飞, 吴瑞香, 邢宝龙, 等(849)

- 马铃薯品种(系)经济性状与营养品质综合评价 齐海英, 白小东, 杨 春, 等(855)

- 青花菜单株产量与主要农艺性状的相关性分析 申领艳, 闫凤岐, 栗淑芳, 等(860)

耕作与栽培

- 一种植物免疫激活蛋白(VDAL)在玉米上的应用 阎世江, 房雅丽, 张治家(865)

- 扦插密度与扦插期对济薯 26 号产量和商品薯率的影响 权宝全, 任杰成, 赵吉平, 等(869)

- 不同砧木对蜜光葡萄物候期和果实品质的影响 王伟军, 郝建宇, 陈文朝, 等(872)

- 6 种萱草属植物在太原市的适应性和观赏性评价 李志娟, 贾民隆, 付宝春, 等(876)

资源与环境

- 不同绿肥品种部分替代化肥对烟叶质量及土壤肥力的影响 程培军, 郝浩浩, 张 翔, 等(882)

植物保护

- 麦田蚜虫及其天敌类群动态变化 侯艳红, 李雷雷, 王文豪, 等(888)

畜牧兽医

- 不同生育期对柠条青贮品质的影响 徐巧峰, 白 冰, 董宽虎(892)

信息技术

- 基于图像处理技术的棚室番茄果实识别 伍莹芮, 张志勇(898)

CONTENTS

● Biotechnology

Cloning and Bioinformatic Analysis of *TraesCS7A02G543300* Gene in Wheat YANG Xi, HUANG Wenfang, WANG Xuelin, et al(797)

● Physiology and biochemistry

Effects of EMS Mutagenesis Inducing Treatment on Seed Germination and Agronomic Traits of Sorghum NIE Meng'en, LIU Qingshan, FAN Xinqi, et al(802)

Analysis on Nectar Secretion and Volatile Compounds of Different Soybean Cultivars Flowers LEI Jia, MA Weihua, LI Jie, et al(807)

Explore of ¹³⁷Cs Gamma-ray on Mung Bean Seeds Mutagenic Effect and the Suitable Dosage SHEN Huifang, GUO Feng(813)

Evaluation of Drought Resistance in the Germination Period of Mutants Induced by Chemical Mutagenesis under Drought Stress YANG Xiuli, NING Dongxian, ZHOU Hongqin, et al(817)

Effect of Cadmium Stress on Organic Acid Content and Cadmium Absorption of *Ricinus communis* L. WANG Peiqi, HU Zunhong, HU Xueli, et al(822)

Effects of Exogenous Melatonin on the Growth Characteristics of Cucumber Seedlings LIU Tingting, ZHAI Xijiao, WEI Xuyang, et al(828)

Effects of NaCl Stress on Photosynthetic Characteristics, Chlorophyll Fluorescence and Osmotic Adjustment Substances of Cherry Seedlings

in Greenhouse SHU Jing, LIU Suhui, ZHANG Aihua, et al(834)

Analysis on the Change Law of Main Functional Components in Walnut Green Husk ZUO Lixiang, NIU Yan, AN Xiaoning, et al(839)

Effects of Different Salt Stress on Seed Germination and Seedling Growth of *Sophora alopecuroides* L. ZHAO Lu, MIAO Yuhua, WU Rulin, et al(844)

● Genetics and breeding

Correlation Analysis of Yield Components of Flax Cultivars(Lines) in North Shanxi Province JIAO Zhenfei, WU Ruixiang, XING baolong, et al(849)

Comprehensive Evaluation of Economic Traits and Nutritional Quality of Potato Varieties(Lines) QI Haiying, BAI Xiaodong, YANG Chun, et al(855)

Correlation Analysis between Yield Per Plant and Main Agronomic Traits of Broccoli SHEN Lingyan, YAN Fengqi, LI Shufang, et al(860)

● Cultivation

Application of Plant Immune-Activating Protein (VDAL) on Corn YAN Shijiang, FANG Yali, ZHANG Zhijia(865)

Effects of Different Cutting Density and Cutting Time on Yield and Commercial Tuber Rate of Jishu 26 QUAN Baoquan, REN Jiecheng, ZHAO Jiping, et al(869)

Effects of Different Rootstocks on Phenophase and Fruit Quality of Miguang Grapevines WANG Weijun, HAO Jianyu, CHEN Wenchao, et al(872)

Study on the Adaptability and Ornamental Evaluation of Six *Hemerocallis* in Taiyuan LI Zhijuan, JIA Minlong, FU Baochun, et al(876)

● Resources and environment

Effects of Partial Replacement of Chemical Fertilizers with Different Green Manure Varieties on Tobacco Leaf Quality and Soil Fertility CHENG Peijun, HAO Haohao, ZHANG Xiang, et al(882)

● Plant protection

Dynamic Change of Aphids and Its Natural Enemies in Wheat Field HOU Yanhong, LI Leilei, WANG Wenhai, et al(888)

● Animal husbandry and veterinary

Effects of Different Growth Stages on Quality of *Caragana korshinskii* Silage XU Qiaofeng, BAI Bing, DONG Kuanhu(892)

● Information technology

Tomato Fruit Recognition in Greenhouse Based on Image Processing Technology WU Yingrui, ZHANG Zhiyong(898)