



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2期（总第408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 **2**
Vol.48 No.2

ISSN 1002-2481



万方数据

山西省农业科学院 主办

目次

生物技术

- 小麦条锈菌产孢转录组分析 张贺平(131)
- 基于荧光素酶活体成像筛选转基因玉米植株的条件优化 常利芳,白建荣,李锐,等(136)
- miR-146a 过表达羊驼黑色素细胞内转录组图谱分析 杜斌,刘学贤,郭湘,等(139)
- 长尾仓鼠 *VKORC1* 基因的提取与扩增 杨新根,杨静,张建珍,等(145)

遗传育种

- 近 13 a 河南省高产冬小麦产量构成及亲本利用演变分析 段国辉,田文仲,温红霞,等(148)
- 晋北地区燕麦品种筛选试验 姜超,杨富,施毅(154)
- 甜玉米品质评价指标的筛选及分类 张雪彪,闫建宾,王瑞钢,等(157)
- 山西不同大豆品种再生体系的筛选 李换丽,王丹,张树伟,等(161)
- 基于 EST-SSR 标记的西双版纳苦茶资源遗传多样性分析 尚卫琼,李友勇,刘悦,等(167)

生理生化

- 不同叶型棉花功能叶片光合特性差异分析 张丽,赵岩,张晋龙,等(172)
- 不同储藏年限对南瓜种子活力的影响 武青山,董晓飞,白扬(177)
- 枣树不同部位的木质部水分输导组织特征 东昊,贺晓芳,王林(181)
- 红枣中氨基酸成分测定 杨婧,侯艳霞,常宁,等(186)
- 人工 RNA 结合骨架的可溶性表达及其与寡核苷酸链的相互作用分析 徐如飞,徐奕倩,陈倩倩,等(188)

耕作与栽培

- 谷子大豆间作对谷子生物性状及产量的影响 李智,王宏富,王钰云,等(193)
- 生物降解渗水地膜覆盖旱地谷子试验 姚建民,毕昕媛,尚武平,等(198)
- 山西省旱作栽培菜豆品种筛选 王天鸿,周丹,郑少文,等(203)
- 基于 TCMGIS 的北苍术产地适宜性分析和定量评价 张玮玮,张志鹏,郑司浩,等(208)
- 煤矿塌陷区紫花苜蓿与无芒雀麦混播比例对其品质和土壤特性的影响 姬亚红,张永志,张艳秋,等(213)
- 间作遮阴对花生生长发育及产量的影响 王钰云,王宏富,李智,等(218)

资源与环境

- 减氮配施有机肥对燕麦氮积累量及产量和品质的影响 王晓雪,侯莉萍,张美俊,等(222)
- 种植玉米对矿区复垦土壤团聚体稳定性及有机碳分布的影响 籍晟煜,张强,靳东升,等(228)
- 耕作方式对晋中玉米田土壤有机碳储量的影响 祁泽伟,刘彩霞,李娜娜,等(233)
- 茶树间作巨菌草对茶园小气候及土壤养分的影响 张明泽,姚玉仙,申太官,等(238)
- 腐植酸用量对鸡粪中泰乐菌素降解的影响 黄皓,朱宇恩,李华,等(242)
- 万荣县苹果园土壤养分现状分析 董鹏,袁嘉玮,潘琪(246)
- 太原市 34 种引进地被植物景观价值的综合评价 王松,武敏,王君,等(249)

畜牧兽医

- 饲料不同加工粒度对育肥猪生产性能的影响 李文刚,闫益波(255)

农业经济

- 山西省绿色农业的发展潜力与动能分析——以食用菌产业为例 康敏,申潞玲,和亮(260)

综述

- 我国谷子白发病研究进展 程富英,王鹤,韩彦卿,等(263)
- 向日葵对盐碱胁迫的响应机制及缓解措施研究进展 张红,王文浩,刘文俊,等(268)
- 植物类病突变体的研究进展 刘思辰,曹晓宁,王海岗,等(272)

CONTENTS

●Biotechnology

- Transcriptome Analysis of Sporulation of *Puccinia striiformis* ZHANG Heping(131)
- Optimization of Conditions for Screening Transgenic Maize Plants by in Vivo Imaging Based on Luciferase CHANG Lifang, BAI Jianrong, LI Rui, et al(136)
- Analysis of Transcriptome Profile of miR-146a Overexpressed Alpaca Melanocytes DU Bin, LIU Xuexian, GUO Xiang, et al(139)
- Extraction and Amplification of *VKORC1* Gene in *Cricetulus longicaudatus* YANG Xin'gen, YANG Jing, ZHANG Jianzhen, et al(145)

●Genetics and breeding

- Analysis on Yield Components and Parent Utilization Evolution of High Yield Winter Wheat in Henan Province in the Past 13 Years DUAN Guohui, TIAN Wenzhong, WEN Hongxia, et al(148)
- Screening Test of Oat Varieties in Northern Shanxi JIANG Chao, YANG Fu, SHI Yi(154)
- Selection and Classification of the Quality Evaluation Index of Sweet Corn ZHANG Xuebiao, YAN Jianbin, WANG Ruigang, et al(157)
- Selection of Soybean Regeneration System with Different Varieties in Shanxi LI Huanli, WANG Dan, ZHANG Shuwei, et al(161)
- Genetic Diversity Analysis of Bitter Tea Germplasm Resource in Xishuangbanna Based on EST-SSR Markers SHANG Weiqiong, LI Youyong, LIU Yue, et al(167)

●Physiology and biochemistry

- Analysis on Photosynthetic Characteristic Differences of Functional Leaves of Cotton with Different Leaf-type ZHANG Li, ZHAO Yan, ZHANG Jinlong, et al(172)
- Effects of Different Storage Years on the Vigor of Pumpkin Seeds WU Qingshan, DONG Xiaofei, BAI Yang(177)
- Water-transport Tissue Characteristics of Xylem in Different Parts of Jujube Tree DONG Hao, HE Xiaofang, WANG Lin(181)
- Determination of Amino Acid Composition in Red Jujube YANG Jing, HOU Yanxia, CHANG Ning, et al(186)
- Soluble Expression of Artificial RNA Binding Skeleton and Its Interaction with Oligonucleotide Chain XU Rufe, XU Yiqian, CHEN Qianqian, et al(188)

●Cultivation

- Effect of Millet and Soybean Intercropping on Biological Characters and Yield of Millet LI Zhi, WANG Hongfu, WANG Yuyun, et al(193)
- Experiment of Millet in Dry Land Covered with Biodegradable Permeable Plastic Film YAO Jianmin, BI Xinyuan, SHANG Wuping, et al(198)
- Screening of Bean Varieties for Dry Cultivation in Shanxi Province WANG Tianhong, ZHOU Dan, ZHENG Shaowen, et al(203)
- Quantitative Evaluation and Regional Suitability Analysis of *Atractylodes chinensis* by TCMGIS ZHANG Weiwei, ZHANG Zhipeng, ZHENG Sihao, et al(208)
- Effects of Mix-sowing Ratio of *Medicago varia* L. and *Bromus inermis* Leyss. on the Forage Quality and Soil Characters in Coal Mining Subsidence Area JI Yahong, ZHANG Yongzhi, ZHANG Yanqiu, et al(213)
- Effect of Intercropping Shading on Growth and Yield of Peanut WANG Yuyun, WANG Hongfu, LI Zhi, et al(218)

●Resources and environment

- Effects of Reducing Nitrogen with Organic Manure on the N Accumulation, Yield and Quality of Oat WANG Xiaoxue, HOU Liping, ZHANG Meijun, et al(222)
- Effects of Planting Maize on the Stability of Soil Aggregates and Organic Carbon Distribution in Reclaimed Soil JI Shengyu, ZHANG Qiang, JIN Dongsheng, et al(228)
- Effects of Different Tillage Methods on Soil Organic Carbon Stock in Maize Fields in Jinzhong QI Zewei, LIU Caixia, LI Nana, et al(233)
- Effects of Tea-*Pennisetum sinense* Intercropping on Microclimate and Soil Nutrients in Tea Garden ZHANG Mingze, YAO Yuxian, SHEN Taiguan, et al(238)
- Effects of Humic Acid Dosage on the Degradation of Tylosin in Chicken Manure HUANG Hao, ZHU Yuen, LI Hua, et al(242)
- Analysis on Soil Nutrients Status of Apple Orchards in Wanrong County DONG Peng, YUAN Jiawei, PAN Qi(246)
- Comprehensive Evaluation on Landscape Value of 34 Introduced Ground Cover Plants in Taiyuan WANG Song, WU Min, WANG Jun, et al(249)

●Animal husbandry and veterinary

- Effect of Feeding Fine Processing Technology on Performance of Fattening Pigs LI Wengang, YAN Yibo(255)

●Agricultural economy

- Analysis on the Development Potential and Kinetic Energy of Green Agriculture in Shanxi Province—Taking Edible Mushroom Industry as an Example KANG Min, SHEN Luling, HE Liang(260)

●Review

- Research Advances on Downy Mildew of Foxtail Millet in China CHENG Fuying, WANG He, HAN Yanqing, et al(263)
- Research Progress on Response Mechanism to Saline-Alkali Stress and Its Mitigation Measures in Sunflowers ZHANG Hong, WANG Wenhao, LIU Wenjun, et al(268)
- Research Progress of Plant Lesion Mimic Mutants LIU Sichen, CAO Xiaoning, WANG Haigang, et al(272)