



ISSN 1002-2481  
CN 14-1113/S

# 山西農業科學

JOURNAL OF SHANXI AGRICULTURAL SCIENCES

SHANXI NONGYE KEXUE

第41卷第11期（总第333期）

- 中国科技核心期刊
- 中国科学引文数据库（CSCD）来源期刊
- 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

2013 11  
Vol.41 No.11

ISSN 1002-2481



9 771002 248110

万方数据

山西省农业科学院 主办

## 目 次

**遗传育种**

- 不同千粒质量对小麦后代农艺性状的影响 ..... 任文斌, 谢三刚, 吴翠翠, 等(1157)  
黍稷种质资源粒色分类及其特性表现 ..... 王 绅, 王星玉, 乔治军, 等(1162)  
5个糜子品种的形态指标差异分析 ..... 王瑞云, 刘晓欢, 申鸽子, 等(1167)  
*Bt*基因导入形态抗蚜棉研究 ..... 郭宝德, 姜艳丽, 冀丽霞, 等(1171)  
早熟高产玉米杂交种晋单70号的选育与栽培 ..... 徐劲松, 徐青松(1174)  
利用冷等离子体生物改性装置辐照枣树接穗的诱变效应 ..... 郝学金, 王丽娜(1176)

**生理生化**

- 光学显微及扫描电镜冷台观察陆地棉胚胎发育 ..... 焦改丽, 孟钊红, 杨晓黎, 等(1180)  
盾壳霉发酵物对几种作物生长的影响 ..... 王庆云, 刘慧平, 韩巨才(1183)  
硝酸钙胁迫对黄瓜种子萌发特性的影响 ..... 韩志平, 郭晓东, 张海霞, 等(1186)  
枣花形态特征及花药特性观察 ..... 宋宇琴, 李炜蔷, 李六林, 等(1190)  
4种柴胡栽培品种种子形态和发芽特性研究 ..... 崔 静(1194)  
浙贝母根系分泌物对其幼苗化感作用的影响 ..... 郭晓光, 杨 琴, 陈泽华, 等(1197)

**资源与环境**

- 日光节能温室土壤有机碳及组分变化对栽培年限的响应 ..... 张宇浩, 方 莉, 程芳琴(1202)  
辽宁西部旱地农业土壤的主要问题分析 ..... 李 真, 赵艳艳, 魏铁霞, 等(1205)  
不同施肥条件下不同作物对重金属土壤镉的修复效果及作用 ..... 郭卓杰, 杨继飞, 李 涛, 等(1209)  
辽西低山丘陵区地面温度的变化特征 ..... 徐 丽, 郭文华, 庞爱平(1212)

**植物保护**

- 硝酸稀土对小麦白粉病的防治作用 ..... 武英鹏, 张作刚, 刘明宇, 等(1216)  
球孢白僵菌GDS菌株对小菜蛾致病力的测定 ..... 闫喜中, 孙学俊, 邓彩萍, 等(1221)  
五台县农田害鼠的多样性及其季节变动规律 ..... 杨新根, 侯 玉, 朱文雅, 等(1224)  
茶叶市场中农药残留问题分析 ..... 江 然(1227)

**畜牧兽医**

- 獭兔MITF基因部分外显子多态性研究 ..... 牛晓艳, 任克良, 曹 亮, 等(1231)  
肉鸡高平衡度饲料对比养殖试验报告 ..... 周 全, 杨春雷, 吴 忻, 等(1235)

**水产渔业**

- 我国水产品质量安全问题及对策 ..... 刘 欢, 王国聘(1239)

**农业经济**

- 山西省粮食供需平衡分析 ..... 闫玄梅, 张晓玲, 李建军, 等(1243)  
山西省设施蔬菜生产经济学分析 ..... 闫万丽, 林 璞, 双树林, 等(1247)  
粮价对单产的激励弹性提升耕地利用效率 ..... 田富强(1254)  
第三代农民时期农地保护问题探讨 ..... 王仲萍, 张 冲, 郭路明(1259)

**综 述**

- 葡萄遗传转化体系研究进展与展望 ..... 董志刚, 马小河, 赵旗峰, 等(1264)  
组织培养在果树中的应用 ..... 李素红, 宫庆涛, 蒋恩顺, 等(1270)  
土壤钾素管理研究进展 ..... 朱向东, 王宏庭(1274)  
尿素氮及其影响因素分析 ..... 张 珊, 许庆方(1282)  
根系分区灌溉对果树产量和品质的影响研究 ..... 缪海红, 杨 凯, 田永强, 等(1288)  
有益微生物在南美白对虾养殖中的应用研究 ..... 朱 林, 车 轩(1291)

**其 他**

- 《山西农业科学》2006—2011年期刊主要评价指标变化分析 ..... 杜慧平, 边锁成, 李素娟, 等(1294)

## CONTENTS

**●Genetics and breeding**

- Effect of Thousand Grain Weights on Posterity Agronomic Characters in Wheat ..... REN Wen-bin, XIE San-gang, WU Cui-cui, et al(1157)  
Seed Color Classification of Broomcorn Millet Germplasms and Their Performance Characteristics ..... WANG Lun, WANG Xing-yu, QIAO Zhi-jun, et al(1162)  
The Difference Analysis of Morphological Index in Five Common Millet (*Panicum miliaceum* L.) Varieties ..... WANG Rui-yun, LIU Xiao-huan, SHEN Ge-zi, et al(1167)  
Effect of *Bt* Gene Transduction into the Morphological Aphid Resistance Cotton ..... GUO Bao-de, JIANG Yan-li, JI Li-xia, et al(1171)  
Selection and Cultivation of Early Maturing High Yielding Hybrid Maize Jindan 70 ..... XU Jin-song, XU Qing-song(1174)  
Mutagenic Effects of the Jujube Tree Scion Irradiated by Cold Plasma Biological Reforming Apparatus ..... HAO Xue-jin, WANG Li-na(1176)

**●Physiology and biochemistry**

- Observation of Upland Cotton Embryogenesis and Developmental Phases ..... JIAO Gai-li, MENG Zhao-hong, YANG Xiao-li, et al(1180)  
Fermentation of *Coniothyrium minitans* and Its Effects on Seeds Germination and Seedling Growth in Some Crops ..... WANG Qing-yun, LIU Hui-ping, HAN Ju-cai(1183)  
The Effect of Calcium Nitrate Stress to the Germination Characteristics of Cucumber Seeds ..... HAN Zhi-ping, GUO Xiao-dong, ZHANG Hai-xia, et al(1186)

- Observation on Jujube Flowers Morphology and Anther Characteristics ..... SONG Yu-qin, LI Wei-qiang, LI Liu-lin, et al(1190)  
Study on Seed Shape and Characteristics of 4 *Radix Burpleur* Cultivars ..... CUI Jing(1194)  
Allelopathic Effects of *Fritillary thunberbg* Miqwa Root Exudate to Its Seedling ..... GUO Xiao-guang, YANG Qin, CHEN Ze-hua, et al(1197)

**●Resources and environment**

- Response on the Changes of Soil Organic Carbon and Its Fractions in Solar Greenhouse to Planting Years ..... ZHANG Yu-hao, FANG Li, CHENG Fang-qin(1202)  
Analysis on the Main Problems in Dryland Farming Soil in Western Liaoning ..... LI Zhen, ZHAO Yan-yan, WEI Tie-xia, et al(1205)  
Crop Growth's Influence to Heavy Metal Copper Contaminated Soil under the Various Fertilization Conditions ..... GUO Zhuo-jie, YANG Ji-fei, LI Tao, et al(1209)

- Land Surface Temperature Changing Features in Western Liaoning Hilly Region ..... XU Li, GUO Wen-hua, PANG Ai-ping(1212)

**●Plant protection**

- Effect of Rare Earth Nitrate to Wheat Powdery Mildew Control ..... WU Ying-peng, ZHANG Zuo-gang, LIU Ming-yu, et al(1216)  
Measurement of the Virulence of *Beauveria bassiana* GDS Strains to the *Plutella xylostella* (Lepidoptera: Plutellidae) ..... YAN Xi-zhong, SUN Xue-jun, DENG Cai-ping, et al(1221)

- Study on Diversity and Seasonal Variation Rule of Farmland Rodents in Wutai County, Shanxi Province ..... YANG Xin-gen, HOU Yu, ZHU Wen-ya, et al(1224)

- Analysis of Pesticide Residues in Tea Market ..... JIANG Ran(1227)

**●Animal husbandry and veterinary**

- Research of Polymorphisms of Parts of Exons in *MITF* Gene in Rex Rabbit ..... NIU Xiao-yan, REN Ke-liang, CAO Liang, et al(1231)  
Report of Comparative Test for High Balance Broiler Feed ..... ZHOU Quan, YANG Chun-lei, WU Xin, et al(1235)

**●Aquaculture and fishery**

- Problems in Chinese Aquatic Product Quality Safety and Measures ..... LIU Huan, WANG Guo-pin(1239)

**●Agri-economy**

- Analysis of the Grain Supply and Demands Balance in Shanxi ..... YAN Xuan-mei, ZHANG Xiao-ling, LI Jian-jun, et al(1243)  
Economic Analysis on Facility Vegetable Production in Shanxi Province ..... YAN Wan-li, LIN Lu, SHUANG Shu-lin, et al(1247)  
To Promote Land Use Efficiency through Grain Price Incentive Elasticity to Unit Land Area Output Increase ..... TIAN Fu-qiang(1254)  
Farmland Protection Issues of the Third-generation Farmer ..... WANG Zhong-ping, ZHANG Chong, GUO Lu-ming(1259)

**●Review**

- Research Advances and Prospects on Genetic Transformation System of Grapevine ..... DONG Zhi-gang, MA Xiao-he, ZHAO Qi-feng, et al(1264)  
Application of Tissue Culture in Fruit Trees ..... LI Su-hong, GONG Qing-tao, JIANG En-shun, et al(1270)

- Research Progress on Soil Potassium Management ..... ZHU Xiang-dong, WANG Hong-ting(1274)

- Analysis on Milk Urea Nitrogen and Its Influencing Factors ..... ZHANG Lin, XU Qing-fang(1282)

- Research Progress about Effect of the Partial Rootzone Irrigation on Yield and Quality of Fruit ..... XU Hai-hong, YANG Kai, TIAN Yong-qiang, et al(1288)

- Application of the Beneficial Microorganism in *Penaeus vannamei* Culture ..... ZHU Lin, CHE Xuan(1291)

**●The others**

- Analysis on Variation of Major Evaluating Indexes for Journal of Shanxi Agriculture Sciences during 2006–2011 ..... DU Hui-ping, YI Suo-cheng, LI Su-juan, et al(1294)