

## 目次

## 生物技术

转 *cry3A* 基因马铃薯外源蛋白表达和对马铃薯甲虫抗性分析 --- 罗晓丽, 杨欣, 郭文超, 田颖川, 付文君, 吴家和 (3)

## 遗传育种

山西省燕麦育种现状及资源特点 ..... 周建萍, 刘龙龙, 崔林 (6)

高结实、多蜜腺甜养种质资源创新初探 ..... 南成虎, 师颖, 曹丽萍, 安海润, 付宝生 (10)

特早熟玉米主要农艺性状与产量灰色关联分析 ..... 冯伟, 李卫东 (13)

早熟高产优质多抗玉米新品种长单 525 的选育 ..... 李齐霞, 李中青, 孙万荣, 宋艳芳 (17)

山西省枣品种在不同产地的品质比较 ..... 贺润平, 李捷, 赵飞, 孔维娜 (20)

## 生理生化

等离子体对小麦种子萌发过程中某些生理变化的影响 ..... 黄明镜 (22)

几种液体授粉稳定剂对梨树坐果的效应 ..... 牛自勉, 阎和建, 赵海亮 (26)

无花果冻害抽条与抗寒保水乳液涂膜的应用 ..... 黄鹏 (29)

风信子不同品种生育期对比试验 ..... 史宗雄 (32)

## 耕作与栽培

山西省北冬虫夏草优良菌株与母种培养基的筛选 ..... 程红艳, 郭伟, 常明昌, 孟俊龙 (35)

饲料高粱晋杂 24 号的特征特性和丰产栽培技术 ..... 张晓英, 段冰, 梁笃, 闫凤霞, 郭琦, 李国银 (38)

临草 2 号的选育及高产栽培 ..... 晋晋秀, 杨峰, 李峰, 党建友 (40)

## 资源与环境

氮肥用量对夏玉米产量、收益、农学效率及氮肥利用率的影响 ..... 赵萍萍, 王宏庭, 郭军玲, 李丽 (43)

旱作燕麦平衡施肥技术配套试验 ..... 韩美善, 崔林, 韩启亮, 王建雄 (47)

井灌区降水量的特征分析及灰色预测 ..... 王健, 孙明, 薛明霞, 李洪建, 王学萌 (51)

腐植酸在生态农业建设中的应用与开发建议 ..... 郝保平, 郝晋山 (57)

## 植物保护

间作苜蓿草枣园地表优势昆虫种类及优势度动态分析 ..... 曹彦清, 赵爱玲, 李登科, 王浩亮, 杜娟 (61)

## 贮藏与加工

自发气调包装及容量对树莓保鲜效果的影响 ..... 张晓宇, 赵迎丽, 闫根柱 (65)

南美白对虾保鲜方法的研究 ..... 侯伟峰, 谢晶 (68)

## 农业经济

山西经济增长与农村贫困问题研究 ..... 李晋陵, 申潞玲, 邢虹娟 (73)

我国苹果产业中的分工与专业化问题分析 ..... 姬超, 杜英, 马燕玲 (77)

## 综 述

转 *vip3* 基因作物研究进展 ..... 李朋波, 曹美莲, 杨六六, 刘惠民, 李燕娥 (81)

非组培遗传转化法在农作物上的应用 ..... 任海红, 任小俊, 王英, 刘学义 (85)

甘草黄酮提取及其抗氧化能力测定方法研究进展 ..... 韩雅慧, 陶宁萍 (89)

## 技术推广

我国具有自主知识产权的农药品种概述 ..... 樊建斌, 杜恩强, 吕红, 李冰冰, 郭书阳 (94)

引诱技术在植物保护中的应用 ..... 李云昌, 张晓丽 (96)

春播大豆丰产栽培技术 ..... 李秋丰 (97)

山西省草坪建植和养护管理 ..... 郑凯, 杨新根 (98)

早熟无核葡萄早康宝优质丰产栽培 ..... 董志刚, 马小河, 赵旗锋, 唐晓萍, 陈俊 (100)

套袋后苹果褐斑病的防治 ..... 杨颖 (101)

家养花卉的日常管理 ..... 王亚平 (102)

延安地区苹果腐烂病流行原因及防治对策 ..... 刘光东 (103)

期刊基本参数: CN 14-1113/S \* 1961 \* M \* 16 \* 104 \* zh \* P \* ¥8.00 \* 1500 \* 33 \* 2010-11

## CONTENTS

## ●Biotechnology

- The Analysis of Expression of *cry3A* Gene and Resistance to Colorado Potato Beetle in Transgenic Potato Lines ..... LUO Xiao-li, et al(3)

## ●Genetics and breeding

- The Breeding Status and Resources Characteristics of Oats in Shanxi Province ..... ZHOU Jian-ping, et al(6)  
 Preliminary Selection of High Seed Setting and More Nectar Buckwheat Germplasm ..... NAN Cheng-hu, et al(10)  
 Gray Correlative Analysis on Relationship between the Main Agronomic Performances and Yield in the Ultra Early Maturing Corn ..... FENG Wei, et al(13)  
 Breeding of Early Maturing, High Yield and Multi-resistance New Maize Varieties Changdan 525 ..... LI Qi-xia, et al(17)  
 Quality Comparison of Shanxi Jujube Strains Cultivated at Various Production Sites ..... HE Run-ping, et al(20)

## ●Physiology and biochemistry

- Physiological Effect of Plasma on Wheat Seed Germination ..... HUANG Ming-jing(22)  
 Effect of Several Natural Mineral Reagents to Fruit Setting of Pears in Liquid Pollination Condition ... NIU Zi-mian, et al(26)  
 Freezing Injury and Bolting, and Application of Cold-resistant Moisture-keeping Emulsion Film Coating in Fig ..... HUANG Peng(29)  
 Comparative Experiment of Growth Period between Varieties in Hyacinth ..... SHI Zong-xiong(32)

## ●Cultivation

- Selection of the Optimal Strain and Mother Culture Medium of *Cordyceps militaris* in Shanxi ... CHENG Hong-yan, et al(35)  
 The Characteristics and High Yield Cultivation Technique of Feed Sorghum Jinza 24 ..... ZHANG Xiao-ying, et al(38)  
 Selective Breeding and High Production Cultivation Technique for Lincao 2 ..... LU Jin-xiu, et al(40)

## ●Resources and environment

- Influence to the Rate of Nitrogen Fertilizer Application on Summer Maize Yield, Net Return, Agronomic Efficiency and Nitrogen Use Recovery ..... ZHAO Ping-ping, et al(43)  
 Experiment of Balanced Fertilization Technology System in Dry Farming Oat ..... HAN Mei-shan, et al(47)  
 Analysis and Gray Prediction of Rainfall in Well Irrigation Area ..... WANG Jian, et al(51)  
 Suggestion on Utilization and Development of Humic Acid in Ecological Agriculture Construction ... HAO Bao-ping, et al(57)

## ●Plant protection

- Dynamic Analysis of Species and Dominance of Insects on the Soil Surface in the Jujube Orchard Intercropping Clover ..... CAO Yan-qing, et al(61)

## ●Storage and proccession

- Effect of Modified Atmosphere Packaging and Capacity on the Quality of Raspberry ..... ZHANG Xiao-yu, et al(65)  
 Study of *Panaeus Vannamei* Preservation Methods ..... HOU Wei-feng, et al(68)

## ●Agri-economy

- Research on Economic Growth and Rural Poverty Problem in Shanxi ..... LI Jin-ling, et al(73)  
 Division of Labor and Specialization Analysis in China's Apple Industry ..... JI Chao, et al(77)

## ●Review

- Research Progress of *vip3* Transgenic Crops ..... LI Peng-bo, et al(81)  
 Application of Non-tissue Culture Transformation Methods in Farm Crops ..... REN Hai-hong, et al(85)  
 Progress in Extraction Methods of *Licorice* Root Flavone and Determination Methods of Its Antioxidant Activity ..... HAN Ya-hui, et al(89)

## ●Technology extension

- Brief Introduction to the Agri-chemical Having One's Own Knowledge Property in China ..... FAN Jian-bin, et al(94)  
 Application of the Attractant Technology in Plant Protection ..... LI Yun-chang, et al(96)  
 High Yielding Cultivation Technology for Spring Sowing Soybean ..... LI Qiu-feng(97)  
 The Technique of Lawns Establishment, Management and Maintenance in Shanxi Province ..... ZHENG Kai, et al(98)  
 Fine-quality High-yielding Cultivation for Zaokangbao Early Maturing Seedless Grape ..... DONG Zhi-gang, et al(100)  
 Control of Apple Brown Spot after Fruit Bagging ..... YANG Ying(101)  
 Daily Management for House Keeping Flowers ..... WANG Ya-ping(102)  
 Cause of Apple Tree Rot Disease Spreading and Its Control in Yanan Area ..... LIU Guang-dong(103)