

## 目次

### 农学·农业基础科学

水肥耦合对玉米光合作用、干物质积累量和产量的影响 ..... 陈朝辉,魏廷邦(1)

酸性物质对微碱性土壤pH和烟叶产质量的影响

..... 余垚颖,张蕾,刘勇,黄小琴,何佶弦,王栋,张启莉,顾会战(10)

### 生物科学

有色稻米及其相关基因研究进展 ..... 吴月娥,段海燕,姜恭好(19)

梨SSR指纹图谱身份证的研究进展与展望

..... 曹军,王茂森,王国铸,赵杰,王建明,郑思思,陶弢,赵怡宁,张才喜,纠松涛(25)

### 林学·园艺·园林

水分胁迫对黄瓜幼苗根系生长及抗氧化酶系统的影响 ..... 闫晓花,曹甜,张国斌(31)

硅肥施用方式和浓度对青脆李果实品质的影响 ..... 马倩倩,彭莞云,黄涛,谢正伟,李世银(39)

赤霉素穗轴涂抹处理对葡萄果实品质的影响

... 王敏,韩守安,谢辉,刘旭鹏,麦合木提·图如普,漆颖,阿地里太·铁力克,艾尔买克·才卡斯木,潘明启,等(44)

冬季补光在日光温室草莓生长和品质提升中的应用

..... 李志鑫,王龙,李欣,谭能智,陈京良,陈裕嘉,杨延杰,闫征南,张雨涵(50)

50种园林小菊观赏性状综合评价 ..... 张煜婷,韩雪雪,何芳霞,严瑞(56)

基质成分比对三角梅生长及光合特性的影响 ..... 黄建,姚航,张旭乐,钱仁卷,郑坚,马晓华(66)

### 资源·环境·生态·土壤·气象

丁香种质资源表型性状遗传多样性分析 ..... 李静,李海霞,李正华,郭成博,王艳敏,孙培琳,白卉(74)

水稻根际土壤微生物细菌群落组成及多样性分析 ..... 王晨龙,闵杰,梁睿,谭熊宇,王烁,吾木提·艾山江(84)

中国土壤中钼的状况及钼肥施用技术 ..... 汪新宇,刘璇,秦佳婷,湛敏(94)

基于优化播期的江汉平原冬小麦种植气象适宜性研究

..... 夏彦,刘凯文,叶佩,邓艳君,肖潇,耿一风,吴启侠(102)

## 植物保护·农药

硼硅对烤烟马铃薯Y病毒病防效与抗氧化酶活性的影响

..... 陈芬,李恺,张雪梅,李应龙,段柯帆,曹恒茂,高鑫,张景华,黄敏,董瑜(108)

甘蔗梢腐病致病菌甘蔗镰刀菌的分离及鉴定

..... 王长秘,罗志明,李银焘,王晓燕,张荣跃,李婕,尹炯,单红丽(114)

黄芪常见病害发生规律及综合防治策略

..... 张博,肖欧丽,王铁霖,王丹,赵浩然,陈捷胤,戴小枫,王永刚,孔志强(119)

## 食品·营养·检测·安全

带茎采烤上部烟叶品质的关键影响指标分析 ..... 刘峰峰,毕庆文,张国超,何结望,孙福山,代英鹏(126)

美引烤烟品种‘NC297’的烘烤特性分析

..... 刘子丹,胡彬彬,陈玉昌,张靖林,费丽娜,林金全,陈颀,何承刚,姜永雷(134)

攀枝花不同海拔烟区烟叶质量比较 ..... 叶田会,杨雪,姜超强,杨建春,闫芳芳,杨兴有,祖朝龙,阎轶峰(144)

3种果型番茄主要风味物质分析 ... 郭莹,王仁杰,徐蓓蓓,张忠义,蔡红明,张红艳,高珏晓,夏海波,陈嘉景(149)

## 农业信息·科技教育

基于机器视觉的菜豆种子品种智能识别与分类 ... 李淑佳,孙来军,蒙亚浩,王祎辰,李晓旭,冯国军,杨凤艳(156)

声明 ..... (164)

《农学学报》简介 ..... (封底)

# Chinese Agricultural Science Bulletin

Vol.41 No.4 (Serial No.727), February 5, 2025

---

## Contents

- Effects of Coupling of Irrigation and Nitrogen Fertilization on Photosynthesis, Dry Matter Accumulation and Yield of Maize  
..... CHEN Zhaohui, WEI Tingbang(1)
- Effects of Acidic Substances on pH of Slightly Alkaline Soil and Yield and Quality of Tobacco Leaves  
..... YU Yaoying, ZHANG Lei, LIU Yong, HUANG Xiaoqin, HE Jixian, WANG Dong, ZHANG Qili, GU Huizhan(10)
- Colored Rice and Its Related Genes: A Review..... WU Yue'e, DUAN Haiyan, JIANG Gonghao(19)
- Research Progress on SSR Fingerprint Identification Card in Pears  
... CAO Jun, WANG Maosen, WANG Guozhu, ZHAO Jie, WANG Jianming, ZHENG Sisi, TAO Tao, ZHAO Yining, ZHANG Caixi, *et al.*(25)
- Effect of Water Stress on Root Growth and Antioxidant Enzyme System of Cucumber Seedlings  
..... YAN Xiaohua, CAO Tian, ZHANG Guobin(31)
- Effect of Fertilization Methods and Concentrations of Silicon Fertilizer on Fruit Quality of Plum 'Qingcui'  
..... MA Qianqian, PENG Guanyun, HUANG Tao, XIE Zhengwei, LI Shiyin(39)
- Effects of Gibberellin Rachis Smearing Treatment on Grape Fruit Quality  
..... WANG Min, HAN Shou'an, XIE Hui, LIU Xupeng, TURUP Mahmood, QI Ying, TIELIKE Adilitai, CAIKASIMU Aiermaike, *et al.*(44)
- Application of Supplementary Light in Winter in Growth and Quality Improvement of Strawberry in Solar Greenhouse  
..... LI Zhixin, WANG Long, LI Xin, TAN Nengzhi, CHEN Jingliang, CHEN Yujia, YANG Yanjie, YAN Zhengnan, ZHANG Yuhan(50)
- Comprehensive Evaluation of Ornamental Traits of 50 Garden Chrysanthemums ... ZHANG Yuting, HAN Xuexue, HE Fangxia, YAN Rui(56)
- Effects of Substrates Composition Ratio on Growth and Photosynthetic Characteristics of *Bougainvillea spectabilis*  
..... HUANG Jian, YAO Hang, ZHANG Xule, QIAN Renjuan, ZHENG Jian, MA Xiaohua(66)
- Genetic Diversity Analysis of *Syringa* Germplasm Resources on Phenotypic Traits  
..... LI Jing, LI Haixia, LI Zhenghua, GUO Chengbo, WANG Yanmin, SUN Peilin, BAI Hui(74)
- Composition and Diversity of Microbial Bacterial Communities in Paddy Rice Rhizosphere Soil  
..... WANG Chenlong, MIN Jie, LIANG Rui, TAN Xiongyu, WANG Shuo, Umut Hasan(84)
- Molybdenum Status in Soil and Application Technology of Molybdenum Fertilizer in China  
..... WANG Xinyu, LIU Xuan, QIN Jiating, SHEN Min(94)

Study on Meteorological Suitability of Winter Wheat in Jiangnan Plain Based on Optimized Sowing Date	
.....	XIA Yan, LIU Kaiwen, YE Pei, DENG Yanjun, XIAO Xiao, GENG Yifeng, WU Qixia(102)
Effects of Boron and Silicon on Control Efficacy of Potato Virus Y Disease and Antioxidant Defense Activities of Flue-cured Tobacco	
···	CHEN Fen, LI Kai, ZHANG Xuemei, LI Yinglong, DUAN Kefan, CAO Hengmao, GAO Xin, ZHANG Jinghua, HUANG Min, DONG Yu(108)
Isolation and Identification of Pathogenic Fungus <i>Fusarium sacchari</i> of Sugarcane Pokkah Boeng Disease	
.....	WANG Changmi, LUO Zhiming, LI Yinhu, WANG Xiaoyan, ZHANG Rongyue, LI Jie, YIN Jiong, SHAN Hongli(114)
Occurrence Pattern of Common Diseases and Integrated Control Strategy of <i>Astragalus membranaceus</i>	
···	ZHANG Bo, XIAO Ouli, WANG Tielin, WANG Dan, ZHAO Haoran, CHEN Jieyin, DAI Xiaofeng, WANG Yonggang, KONG Zhiqiang(119)
Analysis of Key Influencing Factors of Upper Tobacco Leaves Quality in Stalk-Cutting and Curing	
.....	LIU Fengfeng, BI Qingwen, ZHANG Guochao, HE Jiewang, SUN Fushan, DAI Yingpeng(126)
Analysis of Baking Characteristics of Flue-cured Tobacco Variety ‘NC297’ Introduced from American	
.....	LIU Zidan, HU Binbin, CHEN Yuchang, ZHANG Jinglin, FEI Lina, LIN Jinquan, CHEN Yi, HE Chenggang, JIANG Yonglei(134)
Comparative Analysis of Quality of Tobacco Leaves in Different Altitude Tobacco Growing Areas of Panzihua	
.....	YE Tianhui, YANG Xue, JIANG Chaoqiang, YANG Jianchun, YAN Fangfang, YANG Xingyou, ZU Chaolong, YAN Yifeng(144)
Analysis of Main Flavor Substances in Three Different Types of Tomato Cultivars	
···	GUO Ying, WANG Renjie, XU Beibei, ZHANG Zhongyi, CAI Hongming, ZHANG Hongyan, GAO Juexiao, XIA Haibo, CHEN Jiajing(149)
Intelligent Identification and Classification of Common Bean Seed Varieties Based on Machine Vision	
.....	LI Shujia, SUN Laijun, MENG Yahao, WANG Yichen, LI Xiaoxu, FENG Guojun, YANG Fengyan(156)