

中文核心期刊

ISSN 1000—1700

CODEN SNDBE7

沈阳农业大学学报

JOURNAL OF SHENYANG AGRICULTURAL UNIVERSITY

第53卷 第1期

Vol.53 No. 1

ISSN 1000-1700



2022

沈阳农业大学学报

2022年2月 第53卷 第1期 (总第216期)

目次

■研究报告

氮密互作对滨海稻区不同品种粳稻产量及氮肥利用率的影响

..... 吕小红,王宇,马畅,付立东,任海,隋鑫,杜萌,李旭,张文忠,隋国民 (1)

硫酸锌对苹果叶片光合产物的合成及其向果实运输的影响

..... 于波,秦嗣军,吕德国 (9)

芍药组培丛生芽增殖及生根技术的优化

..... 孙晓梅,张晓菊,裴新辉,霍丽茹,刘雪婷,宋曜红 (16)

光核桃 AmUspA 蛋白的表达特性及功能研究

..... 任梓齐,毕雪奇,张力文,陈宇,罗秋香 (24)

1-MCP 处理和 PE 膜包装对冷藏李果实品质及抗氧化酶活性的影响

..... 高芳,郝义,郝邢维,纪淑娟,周鑫,周倩 (34)

基于表型性状的西伯利亚杏核心种质构建

..... 孙永强,陈建华,张剑,董胜君,刘权钢,刘青柏 (43)

玉米秸秆捡拾制粒机的成型装置设计与试验

..... 邱硕,孙喜月,白雪卫,宫元娟 (55)

多孔混凝土与水生植物不同组配对污水中 TN 和 TP 的净化效果研究

..... 闫滨,苗迎雪,高真伟,刘燃 (63)

地埋管供热对蔬菜大棚土壤温湿度分布影响的模拟研究

..... 郭智勇,王冬计,王晓雪,刘联胜,孟阔,魏朝阳 (73)

■研究简报

轮作和连作下大豆产量性状的 QTL 分析

..... 王楠,袁宝琪,刘文博,姚兴东,于翠梅,谢甫缙 (83)

西瓜嫁接砧木种子芽期耐低温评价指标和评价方法的研究

..... 王冲,齐红岩,李猛,刘曼,陈俊琴 (89)

入侵草坪生态系统的 2 种薹菜属植物的竞争效应

..... 晏碧玉,余兰,曲波,马永胜,徐树军,陈惠婷,邵美妮 (96)

多组叠掣营养钵同时自动分离装置设计与试验

..... 田素博,胡熙,谢天,哲旋瑞,李本帅,孙周平 (103)

基于改进 ShuffleNet V2 模型的苹果叶部病害识别及应用

..... 张旭,周云成,刘忠颖,李昕泽 (110)

外来入侵植物刺果瓜在辽宁省的潜在分布及农业经济损失预测

..... 何莉莉,刘金昌,陈柏 (119)

期刊基本参数: CN21-1134/S*1956*b*A4*128*zh*P*¥ 10.00*800*15*2022-02

本期责任编辑: 亓国 英文责任编辑: 王爱德 宋玉秋 封面设计: 杨一峰

JOURNAL OF SHENYANG AGRICULTURAL UNIVERSITY

February in 2022 Vol. 53 No. 1 (Sum 216)

CONTENTS

■ RESEARCH REPORT

- Effect of Nitrogen-Density Interaction on Yield and Nitrogen Use Efficiency of Different *Japonica* Rices in Coastal Region LÜ Xiao-hong, WANG Yu, MA Chang, FU Li-dong, REN Hai, SUI Xin, DU Meng, LI Xu, ZHANG Wen-zhong, SUI Guo-min (1)
- Effects of ZnSO₄ Levels on the Photosynthate Synthesis and Its Translocation to Fruit in Apple YU Bo, QIN Si-jun, LÜ De-guo (9)
- Optimization of the Propagation and Rooting Technique of *Paeonia lactiflora* Buds SUN Xiao-mei, ZHANG Xiao-ju, PEI Xin-hui, HUO Li-ru, LIU Xue-ting, SONG Yao-hong (16)
- A Preliminary Study on Expression Characteristics and Functions of Recombinant AmUspA protein from *Amygdalusmira* REN Zi-qi, BI Xue-qi, ZHANG Li-wen, CHEN Yu, LUO Qiu-Xiang (24)
- Effect of 1-MCP Treatment and PE Packaging on Fruit Quality and Antioxidant Enzyme Activity of Refrigerated Plum GAO Fang, HAO Yi, HAO Xing-wei, JI Shu-juan, ZHOU Xin, ZHOU Qian (34)
- Construction A Core Collection of *Armeniaca sibirica* Based on Phenotypic Traits SUN Yong-qiang, CHEN Jian-hua, ZHANG Jian, DONG Sheng-jun, LIU Quan-gang, LIU Qing-bai (43)
- Design and Experiment on the Molding Device for A Corn Stalk Picking and Pelleting Machine QIU Shuo, SUN Xi-yue, BAI Xue-wei, GONG Yuan-juan (55)
- Study on Purification Effect of TN and TP in Sewage by Porous Concrete and Different Combination of Aquatic Plants YAN Bin, MIAO Ying-xue, GAO Zhen-wei, LIU Ran (63)
- Simulation Study on Effect of Buried Pipe Heating on Distribution of Soil Temperature and Moisture in Vegetable Greenhouse GUO Zhi-yong, WANG Dong-ji, WANG Xiao-xue, LIU Lian-sheng, MENG Kuo, WEI Zhao-yang (73)

■ SHORT RESEARCH REPORT

- QTL Analysis of Soybean Yield Traits under Crop Rotation and Continuous Cropping WANG Nan, YUAN Bao-qi, LIU Wen-bo, YAO Xing-dong, YU Cui-mei, XIE Fu-ti (83)
- Study on Evaluation Index and Method of Low Temperature Tolerance of Watermelon Rootstock Seeds at Germination Stage WANG Chong, QI Hong-yan, LI Meng, LIU Man, CHEN Jun-qin (89)
- The Competition Effect of Two Invasive *Rorippa* Plants in Turf Ecosystem YAN Bi-yu, YU Lan, QU Bo, MA Yong-sheng, XU Shu-jun, CHEN Hui-ting, SHAO Mei-ni (96)
- Design and Experimental Study on Automatic Separation Device for Multiple Stacked Seeding Bowls TIAN Su-bo, HU Xi, XIE Tian, ZHE Xuan-rui, LI Ben-shuai, SUN Zhou-ping (103)
- Identification and Application of Apple Leaf Diseases Based on Improved ShuffleNet V2 Model ZHANG Xu, ZHOU Yun-cheng, LIU Zhong-ying, LI Xin-ze (110)
- Potential Distribution and Agricultural Economic Loss Prediction of Alien Invasive Plant *Sicyos angulatus* in Liaoning Province HE Li-li, LIU Jin-chang, CHEN Bai (119)