

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54卷 第1期

Vol.54 No. 1



2023

沈阳农业大学学报

2023年2月 第54卷 第1期 (总第222期)

目次

■ 研究论文

多效唑施用方式对水稻抗倒伏能力及产量的影响

邵奎文,牟金猛,杨志鑫,刘伟洋,耿艳秋,郭丽颖 (1)

大白菜核不育花药超显微结构观察 岳艳玲,郭瑛琪 (10)

生长素在蔗糖调节山定子幼苗根系亚低温响应和蔗糖代谢中的作用

李丽杰,王 鹏,杨蓓蕾,秦嗣军,吕德国 (16)

人参根际土壤微生物群落结构与土壤环境因子的关系

赵雪淞,王力恒,骆世洪,杨晨曦,朱家佳,高 欣,陈洪磊 (27)

土壤干旱对樟子松的影响及与松枯梢病发生的关系 尹大川,孟凡君,张天泽 (36)

猪牙花更新芽年生育进程及鳞茎营养物质含量的变化 刘雪莲,蒋明格,朱俊义,齐 迹 (46)

中国特有苏铁属植物叶绿体比较基因组学研究 余 潇,宋雨茹,赵振宁,刘子榕 (53)

不同容器规格及基质对油松生长指标的影响 梅 梅,魏忠平,叶景丰,肖 尧,赫 亮,张芷瑞 (66)

甘草提取物的生物功能评价及相关质量标志物预测 杨 悦,刘鸣畅,杨艳歌,吴亚君 (72)

基于EDEM的电动螺旋式小型施肥机关键部件的设计与试验

叶大鹏,赵继宁,青家兴,沈碧河,翁海勇,郑书河 (81)

基于大豆冠层状态变化的变量施药系统设计与试验 吴朝阳,解法旺,陈书法,孙启新,孙传东 (90)

基于ANSYS的浑河拦河闸静力学分析 闫 滨,常钰杰,闫胜利,高真伟,石芮夕 (98)

滑盖式节能日光温室结构静力分析及优化 刘艳华,王晓倩,王 聪,张 峰 (112)

■ 综述

碳质材料载体对微生物的固定化作用及其在环境污染控制中的应用

韩 杰,蔡元奇,李 欣,翟 旻,黄明华,孟 军 (121)

期刊基本参数: CN21-1134/S*1956*b*A4*128*zh*P* ¥ 10.00*800*14*2023-02

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

December in 2023 Vol. 54 No. 1 (Sum 222)

CONTENTS

■ Research Papers

- Effects of Paclobutrazol Application on Lodging Resistance and Yield of Rice
..... SHAO Xi-wen, MOU Jin-meng, YANG Zhi-xin, LIU Wei-yang, GENG Yan-qiu, GUO Li-ying (1)
- Ultramicroscopic Structure Investigation on GMS Anthers in Chinese Cabbage
..... YUE Yan-ling, GUO Ying-qi (10)
- The Role of Auxin in Sucrose Regulation of Sub-low Temperature Response and Sucrose Metabolism in the
Roots of *Malus baccata* Borkh. Seedlings LI Li-jie, WANG Peng, YANG Bei-lei, QIN Si-jun, LÜ De-guo (16)
- Relationship Between Microbial Community Structure and Environmental Factors in Ginseng Rhizosphere Soil
..... ZHAO Xue-song, WANG Li-heng, LUO Shi-hong, YANG Chen-xi, ZHU Jia-jia, GAO Xin, CHEN Hong-lei (27)
- Effects of Soil Drought on *Pinus Sylvestris* var. *Mongolica* and Its Relationship with Shoot Blight
..... YIN Da-chuan, MENG Fan-jun, ZHANG Tian-ze (36)
- Study on the Growth and Development Process of Renewal Bud and Nutrient Contents of the Bulbs of *Erythronium
japonicum* LIU Xue-lian, JIANG Ming-ge, ZHU Jun-yi, QI Ji (46)
- Comparative Study on Chloroplast Genomics of Cycas Plants Endemic to China
..... YU Xiao, SONG Yu-ru, ZHAO Zhen-ning, LIU Zi-rong (53)
- Effects of Different Container Specifications and Substrate Ratios on Biomass Indexes of *Pinus tabulaeformis*
Container Seedlings MEI Mei, WEI Zhong-ping, YE Jing-feng, XIAO Yao, HE Liang, ZHANG Zhi-rui (66)
- Evaluation of Biological Function of Licorice Extracts and Prediction of Related Quality Markers
..... YANG Yue, LIU Ming-chang, YANG Yan-ge, WU Ya-jun (72)
- Design and Test of Key Components of Small Electric Helical Fertilizer Spreader Based on EDEM
..... YE Da-peng, ZHAO Ji-ning, QING Jia-xing, SHEN Bi-he, WENG Hai-yong, ZHENG Shu-he (81)
- Design and Experimental Study on Variable Spray System Based on Soybean Canopy State Change
..... WU Zhao-yang, XIE Fa-wang, CHEN Shu-fa, SUN Qi-xin, SUN Chuan-dong (90)
- Static Analysis of Hun River Sluice Based on ANSYS
..... YAN Bin, CHANG Yu-jie, YAN Sheng-li, GAO Zhen-wei, SHI Rui-xi (98)
- Static Analysis and Optimization of Slip-cover Solar Greenhouse Structure
..... LIU Yan-hua, WANG Xiao-qian, WANG Cong, ZHANG Feng (112)
- ### ■ Review
- Role of Carbonaceous Material Carrier on Microorganism Immobilization and Its Application in Environmental
Pollution Control HAN Jie, CAI Yuan-qi, LI Xin, ZHAI Min, HUANG Ming-hua, MENG Jun (121)