

ISSN 1003-8981
CODEN JYANE6

经济林研究

NON-WOOD FOREST RESEARCH



全国中文核心期刊
中国科技核心期刊
中国农林核心期刊
林草科技重点期刊

世界期刊影响力指数 (WJCI) 报告Q2区期刊

4

2022

第40卷 第4期

Volume 40 Number 4

中南林业科技大学 主办



科学出版社 出版

经济林研究

第四十卷
第四期

2022-4

经济林研究

JINGJILIN YANJIU

第40卷 第4期 2022年12月

目次

研究论文

叶面喷硼对灰枣不同形态硼含量及枣果品质的影响

…马路婷, 杨智鹏, 魏喜喜, 赵文, 张梅, 黄瑶, 万胜, 孙佳, 刘丰鸣, 李建贵 (1)

基于花器官特征的油茶遗传多样性分析

……………傅志强, 袁汕, 申春晖, 张恒, 陈锐帆, 奚如春 (12)

不同氮水平下 AM 真菌对油茶幼苗生长、根系形态和光合特性的影响

……………黄雨轩, 叶媚, 熊静, 沈辉龙, 黄伟豪, 张林平, 吴斐 (19)

4 份平欧榛种质生长动态及果实经济性状比较

……………解甜甜, 冯泽辉, 王晨林, 任宇辰, 王雅茹, 杨秀清 (29)

江淮地区薄壳山核桃主栽品种开花物候观测

……………何的明, 傅松玲, 毕慧慧, 王春雷, 王磊彬 (42)

湖南省 4 个薄壳山核桃品种果实形态和品质变化规律

……………王艺颖, 周文君, 卢琨, 曾淑珍, 袁军 (52)

不同间作模式对山苍子光合特性及其栽培土壤水分和养分的影响

……………高恩婷, 曾庆扬, 谷战英, 卢雨析, 李扬, 冯楠可, 熊荟璇, 张春来, 曾乐景 (61)

各生理因素对山苍子茎段插穗生根成活的影响……………熊伟, 翁小婷, 陈尚钊, 王宗德,

范国荣, 张桢, 何晨, 朱洪坤, 毛卓佳, 汪加魏 (72)

‘凤丹’种子层积过程中内源抑制物含量变化规律

……………李强, 孙海燕, 朱铭玮, 翟金庭, 李淑娴 (81)

抗坏血酸和水杨酸处理对杏李果实贮藏特性的影响

……………刘亚心, 黄文静, 杨绍彬, 莫文娟, 张悦, 韩卫娟, 张嘉嘉 (90)

2 种树形对银杏光合特性及种实产量和品质的影响

……………申林静, 杨果, 唐隆平, 蒋舜村, 李萌, 冯致, 王义强 (97)

西伯利亚杏花芽分化及开花生物学特性

……………张剑, 于庆福, 王蓬锴, 李家豪, 王新鑫, 董胜君 (105)

10 个黑老虎品系间果肉果汁中营养成分及含量的变异分析

……………邹建文, 罗先权, 饶红欣, 陈灵, 陆松全, 何润华, 陈铭, 何艳 (115)

不同施氮量对灵武长枣各发育阶段果实品质的影响

……………李振强, 马旭, 田应明, 范志懿, 万仲武, 刘佳嘉 (124)

基于矿物元素技术的宁夏不同产地红枣的判别分析

.....赵子丹, 开建荣, 王彩艳, 牛艳, 吴燕, 张艳 (133)

南疆不同地区灰枣果实品质性状分析及综合评价.....

.....万胜, 杨智鹏, 黄瑶, 王磊, 孙佳, 刘丰鸣, 张虎国, 王利娜, 王姝婧, 赵文, 张国林, 李建贵 (143)

套袋对富士芽变优系果皮色泽及花青苷合成相关酶活性的影响

.....苏婧怡, 李文胜, 鲁芯志, 张振军, 陈高安 (153)

山桐子叶际微生物群落多样性、结构及功能预测分析.....

.....周慧娜, 张涛, 徐自恒, 薛晓焱, 冯建, 刘震, 王艳梅, 蔡齐飞, 耿晓东, 代莉, 李明婉, 李志 (163)

新疆新源县野果林 3 种野生果树秋播更新特性

.....程功, 刘立强, 李炎艳, 尤璐瑶, 曼苏尔·那斯尔, 廖康 (173)

不同海拔油橄榄对自然低温的生理响应及抗寒性差异

.....海光辉, 张正武, 王茜, 雍巧宁, 邓煜, 海宏 (182)

复合盐碱胁迫对葡萄生长及显微结构的影响

.....卢倩倩, 李月, 王乐乐, 王爽, 周龙 (191)

不同产地油用牡丹种实性状的多样性分析.....

.....侯静, 卜晓婷, 袁鸣, 张文献, 李淑娴 (200)

基于花期差异和 ISSR-PCR 分析的不同茶梅品种间亲缘关系

.....高园, 解元, 杨自云, 陈龙清, 吴田 (209)

湖南油茶花期低温阴雨灾损评估模型构建.....

.....张超, 谢佰承 (218)

摘心对基质栽培蓝莓生长及花芽形成的影响

.....刘宣, 陈国双, 唐雪东, 王明月, 刘炳含, 刘晓嘉 (228)

研究简报

插皮接改良技术在油茶高接换种中的应用

.....张婷, 李建安, 杨昕悦, 张荣, 彭仁荣, 李树战, 谭晓风, 李泽 (239)

不同砧木对两个鲜食葡萄品种生长与果实品质的影响

.....郝燕, 朱燕芳, 张坤, 王玉安 (246)

不同化学型黄樟不同部位的精油变化

.....周松松, 李江, 何小三, 盛亚晶, 胡振兴, 邱凤英 (256)

天山野果林野杏种群受损现状

.....褚佳瑶, 冯琳骄, 杨亚飞, 陆彪, 王强, 周龙, 王瑾 (267)

甘肃古浪县黄灌区枸杞引种栽培综合分析

.....魏家鸿, 于柱英, 徐晶晶, 何静, 罗晓明, 华小琴, 焦旭东, 张明华 (275)

第 40 卷总目次..... (I ~ VIII)

第 40 卷卷终

NON-WOOD FOREST RESEARCH

Dec. 2022 Vol. 40 No. 4

CONTENTS

- Effects of spraying boron on different forms of boron content and fruit quality of jujube..... MA Luting, YANG Zhipeng, WEI Xixi, ZHAO Wen, ZHANG Mei, HUANG Yao, WAN Sheng, SUN Jia, LIU Fengming, LI Jianguai (1)
- Genetic diversity analysis based on characteristics of floral organs of *Camellia oleifera*
..... FU Zhiqiang, YUAN Shan, SHEN Chunhui, ZHANG Heng, CHEN Ruifan, XI Ruchun (12)
- Effects of AM fungi on growth, root system structure and photosynthetic characteristics of *Camellia oleifera* at different nitrogen levels
..... HUANG Yuxuan, YE Mei, XIONG Jing, SHEN Huilong, HUANG Weihao, ZHANG Linping, WU Fei (19)
- Comparison of growth dynamics and fruit economic characters of 4 *Corylus heterophylla* × *Corylus avellana* germplasms
..... XIE Tiantian, FENG Zehui, WANG Chenlin, REN Yuchen, WANG Yaru, YANG Xiuqing (29)
- Observation on flowering phenology of main varieties of pecan in the area between Yangtze River and Huaihe River
..... HE Diming, FU Songling, BI Huihui, WANG Chunlei, WANG Lebin (42)
- Fruit morphology and quality variation patterns of four *Carya illinoensis* varieties in Hunan province
..... WANG Yiyong, ZHOU Wenjun, LU Kun, ZENG Shuzhen, YUAN Jun (52)
- Effects of different intercropping patterns on *Litsea cubeba* photosynthetic characteristics and soil moisture and nutrients
..... GAO Enting, ZENG Qingyang, GU Zhanying, LU Yuxi, LI Yang, FENG Nanke, XIONG Huixuan, ZHANG Chunlai, ZENG Lejing (61)
- Effect of physiological factors on the rooting and survival of *Litsea cubeba* stem-cuttings XIONG Wei, WENG Xiaoting, CHEN Shangxing, WANG Zongde, FAN Guorong, ZHANG Hui, HE Chen, ZHU Hongkun, MAO Zhuojia, WANG Jiawei (72)
- Changes of endogenous inhibitor content during seed stratification of *Paeonia ostii* 'Feng Dan'
..... LI Qiang, SUN Haiyan, ZHU Mingwei, ZHAI Jinting, LI Shuxian (81)
- Effects of ascorbic acid and salicylic acid on the storage properties of *Prunus domestica* × *armeniaca*
..... LIU Yaxin, HUANG Wenjing, YANG Shaobin, MO Wenjuan, ZHANG Yue, HAN Weijuan, ZHANG Jiajia (90)
- Photosynthetic characteristics, seed kernel quality and seed yield of *Ginkgo biloba* in different tree shapes
..... SHEN Linjing, YANG Guo, TANG Longping, JIANG Shuncun, LI Meng, FENG Zhi, WANG Yiqiang (97)
- Flower bud differentiation and flowering biological characteristics of *Armeniaca sibirica*
..... ZHANG Jian, YU Qingfu, WANG Pengkai, LI Jiahao, WANG Xinxin, DONG Shengjun (105)
- Variation of nutritional composition and content in fruit pulp and juice among 10 *Kadsura coccinea* clones
..... ZOU Jianwen, LUO Xianquan, RAO Hongxin, CHEN Ling, LU Songquan, HE Runhua, CHEN Ming, HE Yan (115)
- Effects of different nitrogen rates on fruit quality of Lingwuchangzao at different developmental stages
..... LI Zhenqiang, MA Xu, TIAN Yingming, FAN Zhiyi, WAN Zhongwu, LIU Jiajia (124)
- Discriminant analysis of red jujube from different origin in Ningxia based on mineral element technology
..... ZHAO Zidan, KAI Jianrong, WANG Caiyan, NIU Yan, WU Yan, ZHANG Yan (133)
- Analysis and comprehensive evaluation of fruit quality of Huizao in different regions of Southern Xinjiang
..... WAN Sheng, YANG Zhipeng, HUANG Yao, WANG Lei, SUN Jia, LIU Fengming, ZHANG Huguo, WANG Lina, WANG Shujing, ZHAO Wen, ZHANG Guolin, LI Jianguai (143)
- Effects of bagging on peel color and activities of enzymes related to anthocyanin synthesis of Fuji bud mutation
..... SU Jingyi, LI Wensheng, LU Xinzhi, ZHANG Zhenjun, CHEN Gao'an (153)
- Diversity, structure and function prediction of phyllospheric microorganism community in *Ilex pedunculata*
..... ZHOU Huina, ZHANG Tao, XU Ziheng, XUE Xiaoyan, FENG Jian, LIU Zhen, WANG Yanmei, CAI Qifei, GENG Xiaodong, DAI Li, LI Mingwan, LI Zhi (163)
- Characteristics of autumn sowing regeneration of three wild fruit trees in wild fruit forest in Xinyuan county, Xinjiang
..... CHENG Gong, LIU Liqiang, LI Yanyan, YOU Luyao, Mansur Nasir, LIAO Kang (173)
- Physiological response and cold resistance differences of olive at different altitudes under natural low temperature
..... HAI Guanghui, ZHANG Zhengwu, WANG Qian, YONG Qiaoning, DENG Yu, HAI Hong (182)
- Effects of compound saline-alkali stress on grape growth and microstructure
..... LU Qianqian, LI Yue, WANG Lele, WANG Shuang, ZHOU Long (191)
- Study on phenotypic diversity of seed and fruit traits of oil peony from different growing regions
..... HOU Jing, BU Xiaoting, YUAN Ming, ZHANG Wenxian, LI Shuxian (200)
- Genetic relationship analysis of different *Camellia sasanqua* cultivars based on the difference of flowering season and ISSR-PCR
..... GAO Yuan, XIE Yuan, YANG Ziyun, CHEN Longqing, WU Tian (209)
- Establishment of loss estimation model of low temperature and overcast rain damage at florescence to *Camellia oleifera* in Hunan
..... ZHANG Chao, XIE Baicheng (218)
- Effects of pinching on growth and flower bud formation of substrate cultivated blueberry
..... LIU Xuan, CHEN Guoshuang, TANG Xuedong, WANG Mingyue, LIU Binghan, LIU Xiaojia (228)
- Application of improved technology of bark grafting in the cultivars improvement by high grafting of *Camellia oleifera*
..... ZHANG Ting, LI Jian'an, YANG Xinyue, ZHANG Rong, PENG Renrong, LI Shuzhan, TAN Xiaofeng, LI Ze (239)
- Effects of different rootstocks on the growth and berry quality of two table grape varieties
..... HAO Yan, ZHU Yanfang, ZHANG Kun, WANG Yu'an (246)
- Changes of essential oil in different parts of different *Cinnamomum parthenoxylon* (Jack) Meisner chemical types
..... ZHOU Songsong, LI Jiang, HE Xiaosan, SHENG Yajing, HU Zhenxing, QIU Fengying (256)
- Damage status of *Prunus armeniaca* population in Tianshan wild fruit forest
..... CHU Jiayao, FENG Linjiao, YANG Yafei, LU Biao, WANG Qiang, ZHOU Long, WANG Jin (267)
- Comprehensive analysis of introduction and cultivation of *Lycium barbarum* in Yellow River irrigation area to Gulang county of Gansu province
..... WEI Jiahong, YU Zhuying, XU Jingjing, HE Jing, LUO Xiaoming, HUA Xiaoqin, JIAO Xudong, ZHANG Minghua (275)