

ISSN1003-8981  
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  
中国高校优秀科技期刊  
RCCSE中国核心学术期刊  
农林领域我国高质量科技期刊分级目录T3期刊

# 4

2020

第38卷 第4期  
Volume 38 Number 4

中国林业科技大学 主办



科学出版社 出版

# 经济林研究

## JINGJILIN YANJIU

第 38 卷 第 4 期 2020 年 12 月

### 目 次

#### 研究论文

滤除自然光中 UV-B 辐射成分对杜仲光合和次级代谢产物的影响

…………… 李德文, 杜丹丹, 季倩如, 郭晓瑞, 刘 英, 于雪莹, 唐中华 (1)

基质配方对油茶容器苗根系生物量及形态的影响

…………… 余远国, 张 莹, 曹克丽, 李秀梅, 章 璐, 汪 洋 (11)

不同油茶品种冠层光合有效辐射和结实特性分析…………… 曹永庆, 姚小华, 任华东, 王开良 (17)

四川省恩阳区药用植物资源调查与分析

…………… 肖兴翠, 杨滨豪, 李金武, 何芝然, 史 亮, 王泽亮, 辜云杰, 张 美, 罗 冰 (22)

豫南引种不同薄壳山核桃无性系花期物候特征

…………… 章理运, 申明海, 周传涛, 余开慧, 吴文竹, 高 畅, 周亚运 (32)

湘南千年桐优树嫁接技术优化

…………… 刘俊涛, 张华卿, 沈 燕, 龚映匀, 龙 达, 吴晓龙, 张 斌, 刘凯利, 王瑞辉 (42)

陇南地区 8 个品种 (系) 核桃品质差异比较…………… 辛 国, 朱建朝, 汪 海, 郑小平 (52)

光亮橡胶树叶绿体基因组测序组装与注释…………… 牛迎凤, 李国华, 刘紫艳, 郑 诚, 柳 颀 (62)

锥栗 - 多花黄精不同复合经营模式经济生态效益评价

…………… 刘跃钧, 蒋燕锋, 葛永金, 姚理武, 谢建秋, 彭小博 (72)

海南地区菠萝蜜和荔枝单木相容性生物量模型的构建

…………… 陈毅青, 陈宗铸, 陈小花, 雷金睿, 李苑菱, 吴庭天 (82)

香水莲花花色素苷的提取及稳定性…………… 周 琦, 赵 峰, 张慧会, 祝遵凌, 汤 鹏 (91)

21 个梨品种 1 年生枝条的皮孔特性

…………… 王 鑫, 金 娜, 何 彩, 牟德生, 郭艳兰, 张勤德, 李红旭 (100)

花前滴灌施肥对华红苹果生长和矿质元素的影响…………… 周江涛, 赵德英, 程存刚 (109)

贵州适种澳洲坚果品质性状评价…………… 康专苗, 何凤平, 耿建建, 朱文华, 雷朝云, 刘凡值,

张 燕, 王代谷, 李向勇, 范建新, 卢加举, 曾 辉, 陶 亮 (117)

不同薄壳山核桃无性系种仁氨基酸组成的比较

…………… 常 君, 张潇丹, 王开良, 杨水平, 姚小华, 任华东 (125)

## 库尔勒香梨树在不同生育期的氮肥利用率

……………何雪菲, 黄 战, 马泽跃, 玉素甫江·玉素音, 陈波浪, 柴仲平 (134)

## 新疆南部地区杏种核表型性状与苦杏仁苷含量分析

……………黄 雪, 图尔荪古丽·吾拉伊木, 郭 玲 (143)

## ‘美乐’和‘蛇龙珠’葡萄在甘肃不同产区的品质评价

……………李玉梅, 韦霞霞, 李彦彪, 贺雅娟, 马维峰, 马宗桓, 毛 娟, 陈佰鸿 (152)

## 8个平欧杂种榛品种抗旱性评价 ……………王 鑫, 师文俊, 李一杰, 杨小红, 彭少兵 (161)

## 枯饼、谷壳和水分对覆盖厚竹林土壤温度的影响

……………程慧娟, 申 展, 陈怡君, 沈学桂, 惠柳笛, 龙芝润, 黎祖尧 (169)

## 鲜食枣‘麻姑1号’枣吊光合及叶绿素荧光特性

……………温 婷, 张 露, 程子珊, 朱 博, 陈伏生, 易 敏, 湛梦云, 李 响 (177)

## 短截强度对板栗结果枝和发育枝生长的影响

……………叶常奇, 李 游, 刘 阳, 李 超, 秦 偲, 苏淑钗 (184)

## 基质比对亮叶木莲容器苗生长的影响 ……崔媛媛, 奚如春, 郑珂媛, 赵梦秋, 邓小梅 (192)

## 我国古枣树资源调查与保护 ……………司马星晨, 潘兴杰, 李新岗 (202)

## 研究简报

## 配方施肥改善油橄榄丛枝形成的效果分析

……………刘金凤, 苏智良, 赵 平, 赵永丰, 李翠萍, 陈 鹏, 严 媛 (210)

## 三角梅嫩枝扦插繁殖试验

……………傅小霞, 余铭杰, 伍成厚, 刘悦明, 温 志, 谭梓轩, 江奕伟, 郑育芬 (216)

## 无刺梅花椒‘武选1号’区域试验 ……任 苗, 王 勃, 杨建雷, 武 衡, 林 云, 朱德琴 (222)

## 3种激素处理的树头菜扦插苗质量评价

……………郑鑫华, 董 琼, 段华超, 张 梅, 陈秋冬, 马 媛 (230)

## 综 述

## 油桐生物学研究进展 ……………张庆伟, 温智婷, 罗克明 (238)

## 国外经济林产业技术发展经验及启示 ……………周晓光 (246)

## 第38卷总目次 ……………(I~VIII)

## 第38卷卷终

# NON-WOOD FOREST RESEARCH

Dec. 2020 Vol. 38 No. 4

## CONTENTS

- The effect of filtering out UV-B radiation from natural light on photosynthetic physiology of *Eucommia ulmoides* ..... LI Dewen, DU Dandan, JI Qianru, GUO Xiaorui, LIU Ying, YU Xueying, TANG Zhonghua (1)
- Effects of different culture medium formulas on roots biomass and morphology of *Camellia oleifera* container seedling ..... SHE Yuanguo, ZHANG Ying, CAO Keli, LI Xiumei, ZHANG Lu, WANG Yang (11)
- Analysis on canopy photosynthetic active radiation and fruiting characteristics of different cultivars of *Camellia oleifera* ..... CAO Yongqing, YAO Xiaohua, REN Huadong, WANG Kailiang (17)
- Investigation and analysis of medicinal plant resources in Enyang district of Sichuan province ..... XIAO Xingcui, YANG Binhao, LI Jinwu, HE Zhiran, SHI Liang, WANG Zeliang, GU Yunjie, ZHANG Mei, LUO Bing (22)
- Flowering phenological characteristics of introduced different clones of *Carya illinoensis* in southern Henan ..... ZHANG Liyun, SHEN Minghai, ZHOU Chuantao, YU Kaihui, WU Wenzhu, GAO Chang, ZHOU Yayun (32)
- Optimization of grafting technology of *Aleurites montana* in southern Hunan ..... LIU Juntao, ZHANG Huaqing, SHEN Yan, GONG Yingyun, LONG Da, WU Xiaolong, ZHANG Bin, LIU Kaili, WANG Ruihui (42)
- Comparison of quality difference of 8 walnut varieties (lines) in Longnan area ..... XIN Guo, ZHU Jianzhao, WANG Hai, ZHENG Xiaoping (52)
- Sequencing, assembly and annotation of chloroplast genome of *Hevea nitida* ..... NIU Yingfeng, LI Guohua, LIU Ziyang, ZHENG Cheng, LIU Jin (62)
- Economic and ecological benefits evaluation of different compound management modes of *Castanea henryi* and *Polygonatum cyrtoneura* ..... LIU Yuejun, JIANG Yanfeng, GE Yongjin, YAO Liwu, XIE Jianqiu, PENG Xiaobo (72)
- Establishment of single-tree compatible biomass model for *Artocarpus heterophyllus* and *Litchi chinensis* in Hainan ..... CHEN Yiqing, CHEN Zongzhu, CHEN Xiaohua, LEI Jinrui, LI Yuanling, WU Tingtian (82)
- Extraction and stability of anthocyanin from flowers of *Nymphaea hybrid* ..... ZHOU Qi, ZHAO Feng, ZHANG Huihui, ZHU Zunling, TANG Peng (91)
- Study on the lenticels characteristics of annual branches of 21 pear varieties ..... WANG Xin, JIN Na, HE Cai, MU Desheng, GUO Yanlan, ZHANG Qinde, LI Hongxu (100)
- Effects of fertigation before flowering on growth and mineral element contents of Huahong apple ..... ZHOU Jiangtao, ZHAO Deying, CHENG Cungang (109)
- Evaluation of quality characters of macadamia suitable for planting in Guizhou ..... KANG Zhuanmiao, HE Fengping, GENG Jianjian, ZHU Wenhua, LEI Chaoyun, LIU Fanzhi, ZHANG Yan, WANG Daigu, LI Xiangyong, FAN Jianxin, LU Jiaju, ZENG Hui, TAO Liang (117)
- Comparison of amino acid composition of different clones of pecan ..... CHANG Jun, ZHANG Xiaodan, WANG Kailiang, YANG Shuiping, YAO Xiaohua, REN Huadong (125)
- Nitrogen utilization rate of Korla fragrant pear trees in different growth periods ..... HE Xuefei, HUANG Zhan, MA Zeyue, YUSUFUJIANG Yusuyin, CHEN Bolang, CHAI Zhongping (134)
- Phenotypic traits and amygdalin content of apricot seed kernels in southern Xinjiang ..... HUANG Xue, TUERSUNGULI Wulayimu, GUO Ling (143)
- Quality analysis of 'Merlot' and 'Cabernet Gernischt' grapes in different producing areas of Gansu province ..... LI Yumei, WEI Xiaxia, LI Yanbiao, HE Yajuan, MA Weifeng, MA Zonghuan, MAO Juan, CHEN Baihong (152)
- Drought-resistance evaluation of eight *Corylus heterophylla* × *C. avellana* L. cultivars ..... WANG Xin, SHI Wenjun, LI Yijie, YANG Xiaohong, PENG Shaobing (161)
- Mulching effect of oil cake, chaff and moisture on soil temperature of *Phyllostachys edulis* 'Pachyloen' forest ..... CHENG Huijuan, SHEN Zhan, CHEN Yijun, SHEN Xuegui, HUI Liudi, LONG Zhirun, LI Zuyao (169)
- Photosynthetic and chlorophyll fluorescence characteristics of fresh jujube 'Magu 1' ..... WEN Ting, ZHANG Lu, CHENG Zishan, ZHU Bo, CHEN Fusheng, YI Min, CHEN Mengyun, LI Xiang (177)
- Effects of shortcut strength on the growth of fruiting and developing branches of Chinese chestnut (*Castanea mollissima*) ..... YE Changqi, LI You, LIU Yang, LI Chao, QIN Cai, SU Shuchai (184)
- Effects of different substrate compositions on the growth of container seedlings of *Manglietia lucida* ..... CUI Yuanyuan, XI Ruchun, ZHENG Keyuan, ZHAO Mengqiu, DENG Xiaomei (192)
- Resource investigation and conservation of ancient jujube trees in China ..... SIMA Xingchen, PAN Xingjie, LI Xingang (202)
- Analysis of the effect of formula fertilizer on improvement of olive arbuscules development ..... LIU Jinfeng, SU Zhiliang, ZHAO Ping, ZHAO Yongfeng, LI Cuiping, CHEN Peng, YAN Yuan (210)
- Test of twig cuttage in *Bougainvillea* spp. ..... FU Xiaoxia, YU Mingjie, WU Chenghou, LIU Yueming, WEN Zhi, TAN Zixuan, JIANG Yiwei, ZHENG Yufen (216)
- Regional test of *Zanthoxylum bungeanum* 'Wuxuan No.1' Prickless ..... REN Miao, WANG Bo, YANG Jianlei, WU Heng, LIN Yun, ZHU Deqin (222)
- Quality evaluation on *Crateva unilocularis* cuttings treated with three hormones ..... ZHENG Xinhua, DONG Qiong, DUAN Huachao, ZHANG Mei, CHENG Qiudong, MA Yuan (230)
- Advances in biological research of tung tree (*Vernicia fordii*) ..... ZHANG Qingwei, WEN Zhiting, LUO Keming (238)
- Foreign experience and enlightenment of economic forest industry and technology development ..... ZHOU Xiaoguang (246)

English Editor: GU Zhanying