

# 中南林业科技大学学报

Journal of Central South University of Forestry & Technology

|           |          |
|-----------|----------|
| 第42卷      | 第4期      |
| Volume 42 | Number 4 |

第四十二卷

第四期

- ◆中国精品科技期刊
- ◆中国高校百佳科技期刊
- ◆全国中文核心期刊
- ◆中国科技核心期刊
- ◆中国农林核心期刊
- ◆RCCSE中国权威学术期刊
- ◆中国科学引文数据库(CSCD)来源期刊
- ◆科技期刊世界期刊影响力指数(WJCI)报告收录期刊
- ◆美国CA、日本JST等来源期刊
- ◆湖南省培育世界一流湘版科技期刊建设工程项目梯队期刊

4

2022  
中国·长沙

目次

林学

背包式激光雷达林木点云帧间匹配算法比较研究 … 高世强, 狄海廷, 邢艳秋, 蔡龙涛 (1)

考虑地形效应的高山松地上生物量遥感估测模型构建

……………韩东阳, 张加龙, 杨健, 王书贤, 冯亚飞 (12)

湿加松针叶儿茶素和表儿茶素总量近红外光谱预测模型的建立

……………曾韦珊, 黄林旺, 吕欣欣, 毛积鹏, 冯志恒, 刘天颐, 黄少伟 (22)

云南油杉叶绿体基因组密码子偏好性分析

……………李江飞, 王瑜, 颜廷雨, 汪啟波, 陈诗, 蔡年辉, 许玉兰, 唐红燕 (30)

美国白蜡嫩枝扦插生根特性 ……………薛满满, 常雪薇, 李春明, 杨立学 (40)

湘西喀斯特地区 42 年生湿地松-樟树人工混交林空间结构研究

……………袁星明, 朱宁华, 周光益, 党鹏, 尚海 (49)

杉木林转为油茶林对土壤细菌群落结构的影响

……………周红敏, 彭辉, 陈杏林, 王宏翔, 张弓乔 (59)

轮斑病导致的桉树叶片内生真菌群落结构差异分析

……………钟雅婷, 邹东霞, 廖旺姣, 赵鹏飞, 黄宁, 罗辑 (68)

高效解磷根瘤菌菌株的分离筛选及对花榈木苗木生长的影响

……………陈晓琳, 刘洁莹, 宋艳琦, 周洁尘, 汪亮, 段翔, 李学信, 何苑皞 (76)

生态学

不同间伐强度对华北落叶松人工林土壤养分-微生物生物量-胞外酶化学计量的影响

……………曹芹, 邱新彩, 刘欣, 彭道黎, 程顺 (83)

湘中丘陵区植被恢复对林内空气温湿度调节作用 .....陶萍萍, 方 晰, 陈金磊 (93)

不同混交比例马尾松和红锥人工混交林水土流失特征和土壤理化性质

..... 李 鹏, 杨章旗, 颜培栋, 吴东山 (104)

两种石漠化等级下樟树 - 马尾松混交林林分结构及物种多样性

..... 陈双双, 党 鹏, 朱宁华, 周光益, 尚 海 (117)

## 林业工程

基于 Creo Parametric 技术的马尾松微观模型构建

..... 杨天舒, 胡进波, 汪倩倩, 王熠章, 裴姗姗, 刘 元 (129)

板坯表面增湿对刨花板成形及性能的影响

..... 蔡清源, 吴治超, 卢胜高, 詹满军, 王 燕, 李欣欣, 吴义强, 刘 明 (137)

低摩尔比脲醛树脂掺杂支化聚合物体系研究

..... 王 辉, 周晓剑, 王 凤, 曹 明, 杜官本 (145)

面向探地雷达应用的活立木木材介电常数受主要应用条件的影响

..... 李怡娜, 徐国祺, 王立海, 阚相成, 谢军明 (152)

机械预处理对落叶松原木常规干燥特性的影响 ... 褚江依, 王斯栋, 江京辉, 王朝晖 (162)

两阶段木质托盘闭环供应链合作策略研究 ..... 易 娟, 刘建银, 夏扬坤, 庞 燕 (170)

## 风景园林学

江南古典园林造园要素与民宿景观的异质同构设计 ..... 覃 伟, 刘长青 (183)

CONTENTS

|  |   |
|--|---|
| A comparative study on the matching algorithms of forest point cloud frames for Backpack Laser Scanning  | GAO Shiqiang, DI Haiting, XING Yanqiu, CAI Longtao (1)  |
| Establishment of the remote sensing estimation model of the above-ground biomass of <i>Pinus densata</i> Mast. considering topographic effects   | HAN Dongyang, ZHANG Jialong, YANG Jian, WANG Shuxian, FENG Yafei (12)                                   |
| Establishment of near infrared spectroscopy prediction model for total catechin and l-epicatechin in <i>Pinus elliottii</i> × <i>P.caribaea</i> needles                                    | ZENG Weishan, HUANG Linwang, LYU Xinxin, MAO Jipeng, FENG Zhiheng, LIU Tianyi, HUANG Shaowei (22)       |
| Analysis on codon usage bias of <i>Keteleeria evelyniana</i> chloroplast genome  | LI Jiangfei, WANG Yu, YAN Tingyu, WANG Qibo, CHEN Shi, CAI Nianhui, XU Yulan, TANG Hongyan (30)         |
| The rooting characteristics of <i>Fraxinus americana</i> softwood cuttings   | XUE Manman, CHANG Xuewei, LI Chunming, YANG Lixue (40)  |
| Spatial structure of the 42-year-old <i>Pinus elliottii</i> - <i>Cinnamomum camphora</i> mixed plantation in the karst area of western Hunan   | YUAN Xingming, ZHU Ninghua, ZHOU Guangyi, DANG Peng, SHANG Hai (49)                                     |
| Effects of the conversion of <i>Cunninghamia lanceolata</i> plantations to <i>Camellia oleifera</i> plantations on the structure and diversity of soil bacterial community                 | ZHOU Hongmin, PENG Hui, CHEN Xinglin, WANG Hongxiang, ZHANG Gongqiao (59)                               |
| Differential analysis of community structure of endophytic fungi in the eucalyptus leaves infected by <i>Coniella Eucalyptorum</i>   | ZHONG Yating, ZOU Dongxia, LIAO Wangjiao, ZHAO Pengfei, HUANG Ning, LUO Ji (68)                         |
| Isolation and screening of efficient phosphorus solubilizing Rhizobium strains and their effects on the growth of <i>Ormosia henryi</i> seedlings  | CHEN Xiaolin, LIU Jieying, SONG Yanqi, ZHOU Jiechen, WANG Liang, DUAN Xiang, LI Xuexin, HE Yuanhao (76) |
| Effects of different thinning intensities on the C : N : P stoichiometry of soil nutrients, microbial biomass, and extracellular enzymes in <i>Larix principis-rupprechtii</i> plantations | CAO Qin, QIU Xincan, LIU Xin, PENG Daoli, CHENG Shun (83)   |
| Regulating Effects of Vegetation Restoration on Air Temperature and Humidity in the Forests in Hilly Area of Central Hunan   | TAO Pingping, FANG Xi, CHEN Jinlei (93)   |
| Quality evaluation of mixed plantations of <i>Pinus massoniana</i> and <i>Castanopsis hystrix</i> based on the soil erosion characteristics and soil physical and chemical properties      | LI Peng, YANG Zhangqi, YAN Peidong, WU Dongshan (104)   |
| Stand structure and species diversity of the camphor - masson pine mixed forest under two rocky desertification grades   | CHEN Shuangshuang, DANG Peng, ZHU Ninghua, ZHOU Guangyi, SHANG Hai (117)                                |
| Micro-model construction of <i>Pinus massoniana</i> Lamb. based on Creo parametric technology  | YANG Tianshu, HU Jinbo, WANG Qianqian, WANG Yizhang, CHANG Shanshan, LIU Yuan (129)                     |
| Effects of surface humidification on the formation and properties of particleboard   | CAI Qingyuan, WU Zhichao, LU Shenggao, ZHAN Manjun, WANG Yan, LI Xinxin, WU Yiqiang, LIU Ming (137)     |
| Study on the performance of low mole ratio urea-formaldehyde resin modified with branched polymer  | WANG Hui, ZHOU Xiaojian, WANG Feng, CAO Ming, DU Guanben (145)  |
| Influence of main application conditions on the permittivity of standing trees for GPR applications  | LI Yina, XU Guoqi, WANG Lihai, KAN Xiangcheng, XIE Junming (152)  |
| Effects of mechanical pretreatment on the conventional drying characteristics of larch logs  | CHU Jiangyi, WANG Sidong, JIANG Jinghui, WANG Zhaohui (162)   |
| Research on cooperation strategy of wooden pallet closed-loop supply chain considering government subsidies  | YI Juan, LIU Jianyin, XIA Yangkun, PANG Yan (170)   |
| Heterogeneity isomorphism design of the elements of Jiangnan classical garden and homestay landscape   | QIN Wei, LIU Changqing (183)  |