

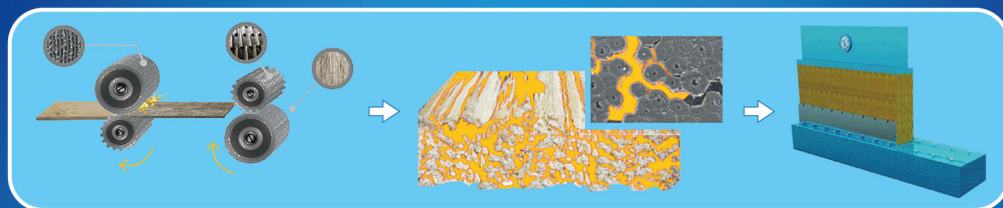
中文核心期刊  
中国科技核心期刊  
RCCSE中国核心学术期刊(A)  
中国农林核心期刊(A类)  
林草科技重点期刊

ISSN 2096-9694  
CN 10-1732/S

2023.1  
第37卷 总第201期

# 木材科学与技术

CHINESE JOURNAL OF WOOD SCIENCE AND TECHNOLOGY



MUCAI KEXUE YU JISHU

2023年1月 双月刊

中国林业科学研究院木材工业研究所 主办

# 目次

## 综合述评

- 1 我国重组材料科学技术发展现状与趋势 于文吉
- 8 木材/金属-有机框架复合材料研究进展 王鑫,管浩,戴鑫建,倪林,王小青
- 18 木材非线性本构模型研究进展 刘建辉,柏亚双,王兴宇,徐国林

## “家居数字化车间规划与管控”专栏

- 25 板式定制家具智能车间数字孪生模型探讨 巫兴寰,朱剑刚
- 33 定制家居分拣设备生产效率分析与评价 陶磊,熊先青,王军祥,张挺,王兵

## 研究报告

- 40 含水率非均匀分布木材在热板加热下温度分布的变化规律 黄荣凤,高志强,冯上环,向娥琳
- 48 桉木高温热处理传热过程的数值模拟与验证 耿金光,郭晋,何露茜,何正斌,伊松林
- 55 应用近红外光谱技术预测进口辐射松木材抗压和抗弯性能 石兰兰,汪睿,任海青,周永东,王玉荣
- 61 蓝变木材基底可可球二孢菌丝复合材料的性能 林晓莉,周海洋,高振忠,吕世豪,孙瑾
- 68 热压时间和温度对酚醛树脂型超薄高密度纤维板性能的影响 张镭,邹森,唐启恒,郭文静
- 74 基于自适应校正和非锐化掩模的木材单板节子图像增强算法研究  
贺春光,高凡,袁云梅,多化琼,丁安宁,李璐芳
- 83 古建筑木构件生物危害预防性保护体系框架构建 马星霞,乔云飞,黎冬青,王艳华
- 91 基于拓扑与形状优化的超薄圆锯片曲线缝结构设计 贾娜,陈肖男,郭磊,岳德国,花军,刘伟
- 99 基于轻量化级联网络破竹机竹径测量 王绍平,严永林,郝晓峰,李贤军,王晓刚

《木材科学与技术》杂志征稿简则 (47页)

广告索引 (108页)

### REVIEWS

- 1 **Current Status and Future Trend of Science and Technology for Reconstituted Materials in China**  
/ YU Wenji
- 8 **Research Progress of Wood/Metal-Organic Frameworks Composites**  
/ WANG Xin, GUAN Hao, DAI Xinjian, NI Lin, WANG Xiaoqing
- 18 **Research Progress on Nonlinear Constitutive Model for Wood**  
/ LIU Jianhui, BAI Yashuang, WANG Xingyu, XU Guolin

### RESEARCH ON PLANNING AND MANAGEMENT FOR HOME FURNISHING DIGITAL WORKSHOP

- 25 **Discussion on the Digital Twin Model of Intelligent Workshop of Custom Panel Furniture**  
/ WU Xinghuan, ZHU Jianguang
- 33 **Analysis and Evaluation of Productivity of Sorting Machinery in Custom Furnishing Manufacture**  
/ TAO Lei, XIONG Xianqing, WANG Junxiang, ZHANG Ting, WANG Bing

### RESEARCH PAPERS

- 40 **Temperature Distribution in Wood with Uneven Moisture Distribution during Preheating Process by Press Platens**  
/ HUANG Rongfeng, GAO Zhiqiang, FENG Shanghuan, XIANG Elin
- 48 **Numerical Simulation and Verification of Heat Transfer during High-Temperature Heat Treatment of Eucalyptus Wood**  
/ GENG Jinguang, GUO Jin, HE Luxi, HE Zhengbin, YI Songlin
- 55 **Compressive and Bending Property Prediction of Imported *Pinus radiata* Wood based on Near-Infrared Spectroscopy**  
/ SHI Lanlan, WANG Rui, REN Haiqing, ZHOU Yongdong, WANG Yurong
- 61 **Properties of Mycelium Composite Made of *Lasiodiplodia theobromae* and Blue-Stained Wood Substrate**  
/ LIN Xiaoli, ZHOU Haiyang, GAO Zhenzhong, LYU Shihao, SUN Jin
- 68 **Effects of Hot-Pressing Time and Temperature on Properties of Phenolic Resin Ultra-Thin High Density Fiberboards**  
/ ZHANG Lei, ZOU Miao, TANG Qiheng, GUO Wenjing
- 74 **Study on Image Enhancement Algorithm of Wood Veneer Knot Based on Adaptive Correction and Unsharpening Mask Technology**  
/ HE Chunguang, GAO Fan, YUAN Yunmei, DUO Huaqiong, DING Anning, LI Lufang
- 83 **Biological Hazard Prevention and Protection System for Wood Components in Ancient Buildings**  
/ MA Xingxia, QIAO Yunfei, LI Dongqing, WANG Yanhua
- 91 **Curved Groove Structure Design of Ultra-Thin Circular Saw Blade based on Topology and Shape Optimization**  
/ JIA Na, CHEN Xiaonan, GUO Lei, YUE Deguo, HUA Jun, LIU Wei
- 99 **Bamboo Diameter Measurement by Bamboo-Ripping Machine based on Lightweight Cascade Network**  
/ WANG Shaoping, YAN Yonglin, HAO Xiaofeng, LI Xianjun, WANG Xiaogang