

木材科学与技术

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)

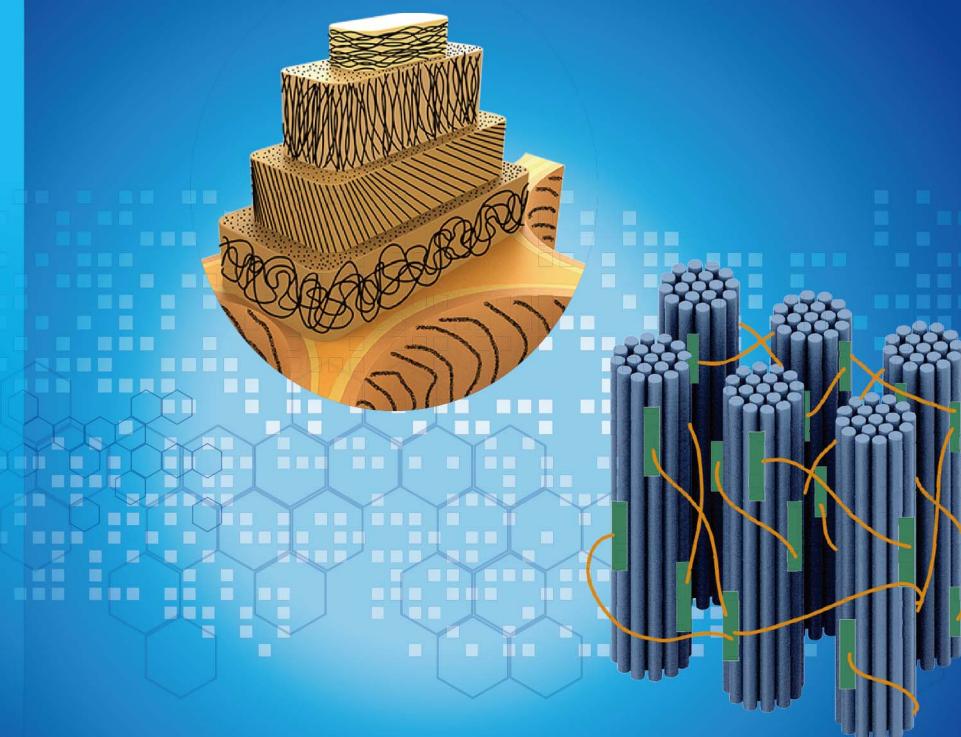
ISSN 2096-9694  
CN 10-1732/S  
CODEN: MKYJBC

2022.4

第36卷 总第198期

# 木材科学与技术

CHINESE JOURNAL OF WOOD SCIENCE AND TECHNOLOGY



ISSN 2096-9694



MUCAI KEXUE YU JISHU

2022年7月 双月刊

中国林业科学研究院木材工业研究所 主办

第三十六卷  
第四期

二〇二二年七月

《木材科学与技术》编辑部

# 目 次

## 综合述评

- 1 塑膜增强柔性装饰薄木制备与饰面应用进展 彭晓瑞, 张占宽  
6 木质材料磨削理论及技术研究进展 罗斌, 张健, 柳浩雨, 李黎, 刘红光, 李昊  
13 活性染料染色木质材料的研究进展 杨国超, 周振兴, 张求慧  
19 地质聚合物木材胶黏剂研究进展 郑宇航, 宋子凡, 杨旋, 陈燕丹, 唐丽荣, 吕建华, 黄彪

## “家居数字化车间规划与管控”专栏

- 25 面向智能制造的家居企业ERP/MES集成管理技术 熊先青, 岳心怡  
32 板式家具智能制造开料工序设备时间开动率分析 白洪涛, 熊先青, 王军祥, 周卓蓉

## 研究报告

- 38 中草药释香型刨花板特征挥发性有机化合物的指纹图谱分析 李善明, 樊正强, 黄成福, 何伟, 赵海誉, 文天国, 彭立民  
45 碳酸钙微晶改性玉米芯粉制备脲醛树脂胶黏剂填料的研究 严晨亮, 孙丰文, 魏信义, 林捷  
51 高能微波预处理对杉木和白梧桐锯材干燥速率及质量的影响 周凡, 曹惠敏, 周永东, 李善明, 高鑫, 付宗营, 庞小仁, 孟兴宇  
57 热处理西加云杉音板用材性能研究 程亚飞, 姜天乐, 翟树杰, 丁涛  
63 穿斗式木构架抗侧性能参数计算方法对比 王双永, 邓昊, 周海滨  
70 应力波对木构件内部空洞的检测 常丽红, 钱威, 常浩, 李鑫, 戴俭, 常晓红

## 讨论与建议

- 77 CITES濒危木材管理政策及我国履约对策研究 何拓, 刘守佳, 尹江萍, 焦立超, 李开凡, 袁良琛, 殷亚方  
81 全屋整装趋势下实木家具行业的转型策略 牛征北, 易欣, 颜涛, 王清文  
88 广告索引

## CONTENTS

Vol.36 No.4 July 2022

### REVIEWS

#### 1 Preparation and Application of Plastic Film Reinforced Pliable Decorative Veneer

/ PENG Xiao-rui, ZHANG Zhan-kuan

#### 6 Research Status of Sanding Theory and Technology for Wood Materials

/ LUO Bin, ZHANG Jian, LIU Hao-yu, LI Li, LIU Hong-guang, LI Hao

#### 13 Research Status of Dyeing Wood Materials with Reactive Dyes

/ YANG Guo-chao, ZHOU Zhen-xing, ZHANG Qiu-hui

#### 19 Research Progress of Geopolymer Wood Adhesives

/ ZHENG Yu-hang, SONG Zi-fan, YANG Xuan, CHEN Yan-dan, TANG Li-rong, LYU Jian-hua, HUANG Biao

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

#### 25 ERP / MES Integrated Management Technology for Intelligent Manufacturing Customized Furnishings

/ XIONG Xian-qing, YUE Xin-yi

#### 32 Analysis of Operation Effectiveness of Cutting Machinery in Intelligent Manufacturing for Panel Furniture

/ BAI Hong-tao, XIONG Xian-qing, WANG Jun-xiang, ZHOU Zhuo-rong

### RESEARCH PAPERS

#### 38 Fingerprint Analysis of Characteristic Volatile Organic Compounds in Fragrance-Scented Particleboards with Added Chinese Herbal Medicine

/ LI Shan-ming, FAN Zheng-qiang, HUANG Cheng-fu, HE Wei, ZHAO Hai-yu, WEN Tian-guo, PENG Li-min

#### 45 Study on Corn Cob Modified by Calcium Carbonate Microcrystals and Its Preparation as Adhesive Filler for Urea-Formaldehyde Resin Adhesive

/ YAN Chen-liang, SUN Feng-wen, WEI Xin-yi, LIN Jie

#### 51 Effect of High-Energy Microwave Pretreatment on Drying Rate and Quality of Chinese Fir and Obeche Lumber

/ ZHOU Fan, CAO Hui-min, ZHOU Yong-dong, LI Shan-ming, GAO Xin, FU Zong-ying, PANG Xiao-ren, MENG Xing-yu

#### 57 Performance of Heat-Treated Sitka Spruce Wood for Soundboards

/ CHENG Ya-fei, JIANG Tian-le, ZHAI Shu-jie, DING Tao

#### 63 Comparative Study on Calculation Methods of Lateral Performance Parameters for Chuan-dou Style Wooden Frames

/ WANG Shuang-yong, DENG Hao, ZHOU Hai-bin

#### 70 Detection of Internal Voids in Wooden Components by Stress Waves

/ CHANG Li-hong, QIAN Wei, CHANG Hao, LI Xin, DAI Jian, CHANG Xiao-hong

### DISCUSSION & SUGGESTION

#### 77 Study on CITES Regulation Policies and the Implementation Strategies for Endangered Timber in China

/ HE Tuo, LIU Shou-jia, YIN Jiang-ping, JIAO Li-chao, LI Kai-fan, YUAN Liang-chen, YIN Ya-fang

#### 81 Transformation Strategy for Solid Wood Furniture Industry under Whole-House Decor Trend

/ NIU Zheng-bei, YI Xin, YAN Tao, WANG Qing-wen