

## DAFTAR PUSTAKA

- Abdillah M, Ma'ruf SD, Kaskoyo H, *et al.* 2020. Modifikasi Sifat Fisis dan Mekanis Kayu Sengon (*Falcataria moluccana*) dan Kelapa (*Cocos nucifera*) melalui Perlakuan Panas dengan Minyak. In Prosiding Seminar Nasional Konservasi 2020 (pp. 564-569). LPPM Universitas Lampung.
- Akyildiz MH, Saim ATES. 2008. Effect of Heat Treatment on Equilibrium Moisture Content (EMC) of Some Wood Species in Turkey. *Research Journal of Agriculture and Biological Sciences* 4(6): 660-665.
- Alia Syahirah Y, Mohd Faizul M, Mohd Fahmi A, *et al.* 2021. Defects in wood finishing. *Technology Buletin* 110: 1-9.
- Arsad E. 2013. Prospek kayu kualitas rendah dan kurang dikenal sebagai substitusi kayu komersial. *Jurnal Riset Industri Hasil Hutan* 5(1): 45-53.
- Ahmad D. 2017. Perilaku Daktail Sambungan Kayu Glulam Baja Glued in Rod. Skripsi. Universitas Katolik Parahyangan, Bandung.
- American Society for Testing and Materials (ASTM). 2004. ASTM D 3359-02, Standar Test Methods for Measuring Adhesion by Tape Test. American Society for Testing and Materials, West Conshohocken, PA, USA.
- American Society for Testing and Materials (ASTM). 2022. ASTM D 3363-22, Standar Test Method for Film Hardness by Pencil Test. American Society for Testing and Materials, West Conshohocken, PA, USA.
- Anonim. 1995. Panduan Proses Wood *Finishing* di PT. Sunjaya Coating Perdana Surabaya. PT. Sunjaya Coating Perdana, Surabaya.
- Arinasa IBK. 2005. Keanekaragaman dan penggunaan jenis-jenis bambu di Desa Tigawasa, Bali. *Biodiversitas* 6(3):17–21.
- Awoyemi L, Jones IP. 2011. Anatomical explanations for the changes in properties of western red cedar (*Thuja plicata*) wood during heat treatment. *Wood Science and Technology* 45(2): 261–267. <https://doi.org/10.1007/s00226-010-0315-9>
- Azadeh A, Ghavami K, García JJ. 2021. The influence of heat on mechanical properties of *Dendrocalamus giganteus* bamboo. *Journal of Building Engineering* 43: 102613.
- Barly B, Martono D, Abdurachman A. 2012. Pengawetan warna kayu tusam (*Pinus merkusii*) dan pulai (*Alstonia sp.*) dengan menggunakan bahan dasar disinfektan. *Jurnal Penelitian Hasil Hutan*. 30 (2): 155-162. <https://doi.org/10.20886/jphh.2012.30.2.155-162>
- Bodig J. 1962. Wettability Related to Gluabilities of Five Philippine Mahagonies. *Forest Product Journal* 12(6): 265-270.

- British Standar Institute. 1957. Methods of testing small clear specimens of timber. British Standar Institute, London.
- Brown HP, Panshin AJ, Forsaith CC. 1952. Textbook of Wood Technology. Vol.2. McGraw-Hill Book.Co. New York.
- BSN. 2006. SNI 01 - 7201 - 2006, Kayu Lapis dan Papan Blok Bermuka Kertas Indah. Badan Standarisasi Nasional, Jakarta.
- Choi JH, Kim HJ. 2006. Three *Hardness test* Methods and Their Relationship on UV-Curable Epoxy Acrylate Coatings for Wooden Flooring Systems. Journal of Industrial and Engineering Chemistry **12(3)**: 412-417.
- Cui W, Kamdem DP, Rypstra T. 2004. Diffuse reflectance infrared fourier transform spectroscopy (DRIFT) and color changes of artificial weathered wood. Wood and Fiber Science, 291-301.
- Coto Z. 2005. Penurunan Kadar Air Keseimbangan dan Peningkatan Stabilitas Dimensi Kayu dengan Pemanasan dan Pengekangan. Jurnal Ilmu dan Teknologi Kayu Tropis **3(1)**: 27-31.
- Dwianto W, Norimoto M. 1999. Peningkatan Sifat Kekuatan Kayu dengan Perlakuan Suhu Tinggi yang Optimum. Prosiding Masyarakat Peneliti Kayu Indonesia (MAPEKI). Yogyakarta.73-79.
- Eratodi IGLB. 2017. Struktur dan rekayasa Bambu. Universitas Pendidikan Nasional, Denpasar.
- Esteves B, Marques AV, Domingos I, *et al.* 2007. Influence of steam heating on the properties of pine (*Pinus pinaster*) and eucalypt (*Eucalyptus globulus*) wood. Wood Science and Technology **41(3)**: 193–207. <https://doi.org/10.1007/s00226-006-0099-0>
- Esteves BM, Domingos IJ, Pereira, HM. 2008. Pine wood modification by heat treatment in air. BioResources **3(1)**: 142–154. <https://doi.org/10.15376/biores.3.1.142-154>
- Esteves BM, Pereira HM. 2009. Wood modification by heat treatment: A review. BioResources **4(1)**: 370–404. <https://doi.org/10.15376/biores.4.1.esteves>
- Fahrina R, Gunawan I. 2014. Pemanfaatan Bambu Betung Bangka Sebagai Pengganti Tulangan Beton Bertulangan Bambu. Jurnal Fropil **2(1)**: 56–68.
- Firdani IA, Chanan MC, Prakosa GG. 2021. Kelayakan Perubahan Kelas Perusahaan: Studi Kasus di Bagian Hutan Ngantang Pujon, KPH Malang (Feasibility of change in Enterprise Class: Case Study in the Forest Section of Ngantang Pujon, KPH Malang). Jurnal Penelitian Hutan Tanaman **18(2)**: 137-146.
- Forbes C. 1998. Wood Surface Inactivation and Adhesive Bonding. North Caroline State University Press

- Guo F, Zhang X, Yang R, *et al.* 2021. Hygroscopicity, degradation and thermal stability of isolated bamboo fibers and parenchyma cells upon moderate heat treatment. *Cellulose* **28**: 8867-8876.
- Handayani S. 2016. Analisis Pengujian Struktur Balok Laminasi Kayu Sengon Dan Kayu Kelapa. *Jurnal Teknik Sipil Dan Perencanaan* **18(1)**: 39–46. <https://doi.org/10.15294/jtsp.v18i1.6693>
- Haygreen JG, Bowyer JL. 1989. Hasil Hutan dan Ilmu Kayu, Suatu Pengantar. Diterjemahkan oleh Dr. Ir. Sutjipto A. Hadikusumo. Gadjah Mada University Press, Yogyakarta.
- Hazir E, Koc KH. 2019. Evaluation of wood surface coating performance using water based, solvent based and powder coating. *Maderas. Ciencia y tecnología* **21(4)**: 467-480.
- Hill CAS. 2006. Wood Modification; Chemical, Thermal and Other Processes. John Wiley and Sons, Ltd, England.
- Jirouš-Rajković V, Miklečić J. 2019. Heat-treated wood as a substrate for coatings, weathering of heat-treated wood, and coating performance on heat-treated wood. *Advances in Materials Science and Engineering* **2019**: 1-9.
- Karlinasari L, Lestari AT, Priadi T. 2018. Evaluation of surface roughness and wettability of heat-treated, fast-growing tropical wood species sengon (*Paraserianthes falcataria* (L.) IC Nielsen), jabon (*Anthocephalus cadamba* (Roxb.) Miq), and acacia (*Acacia mangium* Willd.). *International Wood Products Journal* **9(3)**: 142-148.
- Kesik HI, Akyildiz MH. 2015. Effect of the heat treatment on the adhesion strength of water based wood varnishes. *Wood Res* **60(6)**: 987-994.
- Kocaefe D, Poncsak S, Dore G, *et al.* 2008. Effect of heat treatment on wettability of White Ash and Soft Maple by water. *Holz Roh Werkst* **66**: 355-361.
- Korkut DS, Korkut S, Bekar I, *et al.* 2008. The effects of heat treatment on the physical properties and surface roughness of turkish hazel (*Corylus colurna* L.) wood. *International Journal of Molecular Sciences* **9(9)**: 1772–1783. <https://doi.org/10.3390/ijms9091772>
- Kurniadi, YH. 2007. Pengaruh Komposisi Sanding Sealer Dalam Base Colour Terhadap Kekuatan Adhesive *Finishing* Fil.fger Joint Laminating (FJL) Kayu Pinus (*Pinus merkusii*), Solid Lamina, dan Venir Lamina Kayu Kelampayan (*Anthocephalus* sp) (Studi Kasus di PT Sunjaya Coating Perdana). Skripsi S-1. Fakultas Kehutanan Universitas Gadjah Mada. Yogyakarta. (Tidak diterbitkan).
- Lee CH, Yang TH, Cheng YW *et al.* 2018. Effects of thermal modification on the surface and chemical properties of moso bamboo. *Construction and Building Materials* **178**: 59-71.

- Lestari AT, Darmawan IW, Nandika D. 2016. Pengaruh Kondisi Permukaan terhadap Daya Lekat Lapisan Pelindung. *Jurnal Ilmu Teknologi Kayu Tropis* **14(1)**: 11-22.
- Lestari AT. 2020. Sifat keterbasahan pada bidang tangensial dan radial kayu rajumas (*Duabanga moluccana Blume*). *Jurnal Perennial* **16(1)**: 7-10.
- Li W, He S. 2019. Research on the Utilization and Development of Bamboo Resources through Problem Analysis and Assessment. *IOP Conference Series: Earth and Environmental Science* **300(5)**: 1–6. <https://doi.org/10.1088/1755-1315/300/5/052028>
- Lobang A, Nurrachmania M. 2021. Produk Kayu Tiruan: Kayu Lapis Dan Kayu Lamina. *Jurnal Akar* **10(1)**: 65–71. <https://doi.org/10.36985/jar.v10i1.473>
- Louppe D, Oteng-Amoako AA, Brink M. 2008. *Plant Resources of Tropical Africa 7(1) Timbers 1*. Backhuys Publishers, Leiden.
- Morisco. 1999. *Rekayasa Bambu*. Nafiri Offset, Yogyakarta.
- Nishida M, Tanaka T, Miki T, *et al.* 2017. Multi-scale instrumental analyses for structural changes in steam-treated bamboo using a combination of several solid-state NMR methods. *Industrial crops and products* **103**: 89-98.
- Nuopponen M, Vuorinen T, Jämsä S, *et al.* 2005. Thermal modifications in softwood studied by FT-IR and UV resonance Raman spectroscopies. *Journal of Wood Chemistry and Technology* **24(1)**: 13-26.
- Nurhanifah N, Anggiriani S, Sutiawan J. 2023. Efek Perlakuan Panas Terhadap Perubahan Warna Bambu Sembilang (*Dendrocalamus giganteus*): Effect of Heat Treatment to Color Change on Sembilang Bamboo (*Dendrocalamus giganteus*). *Jurnal Silva Tropika* **7(1)**: 1-6.
- Nurmalasari I, Gosetav B. 2020. Klasifikasi Balok Laminasi Bambu (Studi Kasus Pabrik Laminasi Bambu PT. Indonesia Hiju Papan Cisolok Jawa Barat). *Jurnal Student Teknik Sipil* **2(3)**: 183-191.
- Jirouš-Rajković V, Miklečić, J. 2019. Heat-Treated Wood as a Substrate for Coatings, Weathering of Heat-Treated Wood, and Coating Performance on Heat-Treated Wood. *Advances in Materials Science and Engineering*, **2019(1)**: 1-9.
- Pavlo B, Niemz P. 2003. Effect of Temperature on Color and Strength of Spruce Wood. *Holzforschung* **57**: 539–546.
- Pelit H. 2017. The effect of different wood varnishes on surface color properties of heat treated wood materials. *Journal of the Faculty of Forestry Istanbul University* **67(2)**: 262-274.
- Pétrissans M, Gérardin P, Bakali IE, *et al.* 2003. Wettability of heat-treated wood. **57**: 301-307.

- Prayitno TA. 1999. Hand Out *Finishing* Kayu. Bagian Penerbitan Yayasan Pembina Fakultas Kehutanan UGM, Yogyakarta.
- Prayitno TA. 2004. Perekatan Kayu. Bagian Penerbitan Yayasan Pembina Fakultas Kehutanan UGM, Yogyakarta
- Prayitno TA, Sari RAM, Widyorini R. 2013. Sifat *finishing* kayu jati setelah perlakuan panas. In Prosiding Seminar Nasional Masyarakat Peneliti Kayu Indonesia (MAPEKI) XVI **75-82**.
- Priyanto A, Yasin I. 2019. Pemanfaatan Laminasi Bambu Petung Untuk Bahan Bangunan. *Science Tech: Jurnal Ilmu Pengetahuan Dan Teknologi* **5(2)**: 23–39. <https://doi.org/10.30738/jst.v5i2.5803>
- Purwanto D. 2012. Pemanfaatan Kayu Akasia Mangium (*Acacia mangium* Willd) Untuk Mebel. *Jurnal Riset Industri Hasil Hutan* **4(1)**: 1. <https://doi.org/10.24111/jrihh.v4i1.1195>
- Rofii MN, Widyorini R, Prayitno TA. 2009 Kualitas Perekatan Kayu Jati Dari Hutan Rakyat Akibat Variasi Jenis Perlakuan Panas dan Suhu. In Prosiding Seminar Nasional Masyarakat Peneliti Kayu Indonesia **12**: 374-381
- Salca EA, Kobori H, Inagaki T, *et al.* 2016. Effect of heat treatment on colour changes of black alder and beech veneers. *Journal of Wood Science* **62**: 297-304.
- Sandberg D, Haller P, Navi P. 2013. Thermo-hydro and thermo-hydro-mechanical wood processing: An opportunity for future environmentally friendly wood products. *Wood Material Science & Engineering* **8(1)**: 64-88.
- Sernek M, Kamke FA, Glasser WG. 2004. Comparative Analysis of Inactivated Wood Surface. *Holzforschung*. **58**: 22–31. <https://doi.org/10.1515/HF.2004.004>
- Sernek M, Boonstra M, Pizzi A, *et al.* 2008. Bonding performance of heat treated wood with structural adhesives. *Holz Als Roh - Und Werkstoff* **66(3)**: 173–180. <https://doi.org/10.1007/s00107-007-0218-0>
- Shangguan W, Gong Y, Zhao R, *et al.* 2016. Effects of heat treatment on the properties of bamboo scrimber. *Journal of Wood Science* **62**: 383-391.
- Sharma B, Gatóo A, Ramage MH. 2015. Effect of processing methods on the mechanical properties of engineered bamboo. *Construction and Building Materials* **83**: 95-101.
- Shi SQ, Gardner DJ. 2001. Dynamic Adhesive Wettability of Wood. *Wood and Fiber Science* **33(1)**: 58-68.
- Sipahutar WS, Maulana S, Augustina S, Murda A, Bindar Y. 2021. Effects of heat treatment on the wettability and color properties of betung bamboo (*Dendrocalamus asper*) strand. *IOP Conf. Series: Earth and Environmental Science*. 830. <https://doi.org/10.1088/1755-1315/830/1/012071>

- Sucipto T. 2009. Kayu Laminasi dan Papan Sambung. Skripsi. Fakultas Pertanian, Universitas Sumatera Utara, Sumatera Utara.
- Sujarwanta A, Zen S. 2020. Identifikasi Jenis Dan Potensi Bambu (*Bambusa sp.*) Sebagai Senyawa Antimalaria. *BIOEDUKASI: Jurnal Pendidikan Biologi* **11(2)**: 131-151.
- Sulaeman M, Budiman H, Koswara E. 2019. Proses Uji Dimensi, Uji Kekerasan Dengan Metode Rockwell Dan Uji Komposisi Kimia Pada Cangkul Di Balai Besar Logam Dan Mesin (Bblm) Bandung. In *Prosiding Industrial Research Workshop and National Seminar* **10(1)**: 539-543.
- Sumarno A, Widodo E. 2016. Kajian Kekuatan Bambu Laminasi sebagai Bahan Bangunan di Indonesia. *Rekayasa Sipil* **5(1)**: 1-7.
- Sunaryo A. 1995. Reka Oles Meubel Kayu. Pendidikan Industri Kayu Atas. Kanisius, Yogyakarta
- Sushardi S. 2018. Sifat Wetabilitas Dan Warna Kayu Sengon Dan Waru Gunung Sebagai Bahan Mebel: Wetability and Colour of *Paraserianthes falcataria* and *Hibiscus tiliaceus* as Furniture Material. *Jurnal Wana Tropika* **8(2)**: 37-46..
- Sutiyono. 1988. Silvikultur hutan bambu di hutan Soko, Banyuwangi. *Bul. Pen. Hutan. Pusat Litbang Hutan Bogor* (**497**): 29 – 40.
- Tecnopol. 2017. Pin-holes, what they are and how to prevent them. <https://www.tecnopolgroup.com/news-and-updates/pin-holes-what-they-are-and-how-to-prevent-them>. Diakses 14 September 2024.
- Todaro L, Zuccaro L, Marra M, *et al.* 2012. Steaming effects on selected wood properties of Turkey oak by spectral analysis. *Wood Science and Technology* **46**: 89-100.
- Tsoumis G. 1991. *Science and Technology of Wood (Structure, Properties, Utilization)*. Van Nostrand Reinhold Company, New York.
- Varga D, Van Der Zee ME. 2008. Influence of steaming on selected wood properties of four hardwood species. *Holz Als Roh - Und Werkstoff* **66(1)**: 11–18. <https://doi.org/10.1007/s00107-007-0205-5>
- Wakchaure M, Kute S. 2012. Effect of moisture content on physical and mechanical properties of bamboo. *Asian J Civ Eng (Build Housing)* **13(6)**: 753–763.
- Wan Mohamad WH, Ahmad Z, Abd. Jalil A. 2014. Bending strength of glulam from selected Malaysian hardwood timber. *Advanced materials research* **879**: 237-244.
- Widiyanto A. 2011. Kualitas papan partikel kayu karet (*Hevea brasiliensis* Muell. Arg) dan bambu tali (*Gigantochloa apus* Kurz) dengan perekat likuida kayu. *Jurnal Penelitian Hasil Hutan* **29(4)**: 301-311.

- Widyorini R, Khotimah K, Prayitno TA. 2014. Pengaruh Suhu dan Metode Perlakuan Panas terhadap Sifat Fisika dan Kualitas *Finishing* Kayu Mahoni. *Jurnal Ilmu Kehutanan* **8(2)**: 65. <https://doi.org/10.22146/jik.10160>
- Widyorini R, Yudha AP, Lukmandaru G *et al.* 2015. Sifat fisika mekanika dan ketahanan papan partikel bambu dengan perekat asam sitrat terhadap serangan rayap kayu kering. *Jurnal Ilmu Kehutanan* **9(1)**: 12-22.
- Wijayanto A. 2023. Kualitas Daya Lekat, Nilai Kilap, Fleksibilitas dan Kekerasan Beberapa Jenis Bahan *Finishing* yang Diaplikasikan Pada Kayu Mahoni. *Jurnal Kehutanan Papuaasia* **9(2)**: 169-177.
- Ye C, Huang Y, Feng Q, et al. 2020. Effect of hygrothermal treatment on the porous structure and nanomechanics of moso bamboo. *Scientific reports* **10(1)**: 6553.
- Zhang Y, Yu W. 2015. Changes in surface properties of heat-treated *Phyllostachys pubescens* bamboo. *BioResources*. **10(4)**: 6809-6818. <https://doi.org/10.15376/biores.10.4.6809-6818>
- Zhang Y, Yu Y, Lu Y, *et al.* 2021. Effects of heat treatment on surface physicochemical properties and sorption behavior of bamboo (*Phyllostachys edulis*). *Construction and Building Materials* **282**: 122683.