

DAFTAR PUSTAKA

- Anggiriiani, S., & Nurhanifah, S. J. (2023). Suatu Tinjauan Kecocokan Kayu Jati (*Tectona Grandis Linn F*) Cepat Tumbuh Untuk Bahan Baku Furnitur. *Jurnal Kehutanan Papuaasia*, 9(1), 69-78.
- Aydin I, Colakoglu G, Hiziroglu S. (2005). Surface characteristics of spruce veneers and shear strength of plywood as a function of log temperature in peeling process. *Int J Solid Struct*. 2005;43:6140–7.
- Badan Pusat Statistik. (2024). *Statistik Produksi Kehutanan 2024*. Badan Pusat Statistika.
- Basri, E., & Wahyudi, I. (2013). Sifat dasar kayu jati plus perhutani dari berbagai umur dan kaitannya dengan sifat dan kualitas pengeringan. *Jurnal Penelitian Hasil Hutan*, 31(2), 93-102.
- Budhe, S., Banea, M., Ghugal, S., & De Barros, S. (2020). Effects of heat treatment on the behavior of teak wood adherends bonded joints. *Applied Adhesion Science*, 8, 1-10.
- Čabalová, I., Kačík, F., Lagaňa, R., Výbohová, E., Bubeníková, T., Čaňová, I., and Ďurkovič, J. (2018). “Effect of thermal treatment on the chemical, physical, and mechanical properties of pedunculate oak (*Quercus robur L.*) wood,” *BioResources* 13(1), 157-170. DOI: 10.15376/biores.13.1.157-170.
- Cahyono, T. D., Wahyudi, I., Priadi, T., Febrianto, F., & Ohorella, S. (2014). Analisis modulus geser dan pengaruhnya terhadap kekakuan panel laminasi kayu samama (*Antocephallus macrophyllus*). *Jurnal Teknik Sipil ITB*, 21(2), 121-128.
- Cao, Y., Lu, J., Huang, R., & Jiang, J. (2012). Increased dimensional stability of Chinese fir through steam-heat treatment. *European Journal of Wood and Wood Products*, 70(4), 441-444.
- Carvalho, A. G., De Andrade, B. G., Donato, D. B., Da Silva, C. M. S., Carneiro, A. D. O., De Castro, V. R., & Zanuncio, A. J. V. (2020). Bonding performance of structural adhesives on heat-treated *Mimosa scabrella* and *Pinus oocarpa* wood. *Cellulose Chemistry and Technology*, 54(7-8), 663-668.
- Chu, D., Xue, L., Zhang, Y., Liu, K., & Jun, M. (2016). Surface Characteristics of Poplar Wood with High-Temperature Heat Treatment: Wettability and Surface Brittleness. *Bioresources*, 11, 6948-6967.
- Coto. (2005). Penurunan kadar air keseimbangan dan peningkatan stabilitas dimensi kayu dengan pemanasan dan pengekangan. *Jurnal Ilmu dan Teknologi Kayu Tropis*. 3(1): 27-31.

- Cruz, A. M., Albues, T. A. S., Maria, D. D., Madi, J. P. S., Ferreira, J., Barros Jr, U., ... & Pereira, B. L. C. (2024). Thermal modification's influence on the color of *Tectona grandis* Lf sapwood to resemble heartwood. *BioResources*, 19(4), 908.
- Dagbro O, Petteri T, Olov K, Tom M. (2010). Colour responses from wood, thermally modified in superheated steam and pressurized steam atmospheres. *Wood Material Science and Engineering*. 5: 211-219.
- Desmiwati, Veriasa, T., Zanzibar, M., Bramasto, Y., Damayanti, R., Yuniarti, N., & Wibowo, L. (2021). The integration of social forestry, science and local community in the collaborative Muna teak (*Tectona grandis*) development. *IOP Conference Series: Earth and Environmental Science*, 917.
- Esteves, B., Marques, A. V., Domingos, I., & Pereira, H. (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.
- Esteves, B., I.J. Domingis, dan H.M. Pereira. (2008). Pine Wood Modification by Heat Treatment in Air. *BioResources* 3(1) : 142-154.
- Fauzy, A. (2011). Pengaruh Metode Dan Waktu Perlakuan Panas Terhadap Sifat Perekatan Kayu Jati (*Tectona Grandis* L. F) Muda. Skripsi Tidak dipublikasikan. Fakultas Kehutanan, Universitas Gadjah Mada, Yogyakarta.
- Gáborík, J., Gaff, M., Ruman, D., Záborský, V., Kašíčková, V., & Sikora, A. (2016). Adhesive As A Factor Affecting The Properties Of Laminated Wood. *Bioresources*, 11(4), 10565–10574.
- Gašparík, M., Gaff, M., Kačík, F., & Sikora, A. (2019). Color and chemical changes in teak (*Tectona grandis* L. f.) and meranti (*Shorea* spp.) wood after thermal treatment. *BioResources* 14(2), 2667-2683.
- Gusmawati, E., Wulandari, F., & Rini, D. (2018). Sifat Fisika dan Mekanika Papan Laminasi Berdasarkan Warna dan Bidang Orientasi Kayu. *Jurnal Belantara*, 37(2), 1-8.
- Hanifah, N. P., Martha, R., Rahayu, I. S., Darmawan, W., George, B., & Gérardin, P. (2022). Surface characterization and paint bonding quality on chemically and thermally modified short rotation teak wood. *International Wood Products Journal*, 1–8, 14(1), 13-20
- Hanifah, N., Wahyuningtyas, I., Kutana, A., & Dirna, F. (2025). Wettability of Chemically and Thermally Modified of Fast-Growing Teak Wood. *PERENNIAL*, 21 (1): 44-51.
- Haygreen, J.G. dan J.L. Bowyer. (1989). *Hasil Hutan dan Ilmu kayu. Suatu pengantar (terjemahan)*. Gadjah Mada University Press. Yogyakarta.

- Hidayati, F., & Marsoem, S. N. (2016). Sifat Fisika Dan Mekanika Kayu Jati Unggul “Mega” Dan Kayu Jati Konvensional Yang Ditanam Di Hutan Pendidikan Wanagama, Gunungkidul, Yogyakarta. *Jurnal Ilmu Kehutanan*.
- Hill, C., Altgen, M., and Rautkari, L. (2021). “Thermal modification of wood—A review: Chemical changes and hygroscopicity,” *Journal of Material Science* 56, 6581-6614. DOI: 10.1007/s10853-020-05722-z.
- Hunter Lab. (1996). *Applications note: Hunter Lab color scale. Insight on Color* 8(9): 1-15. Tersedia pada: <http://www.hunterlab.com>.
- Hosseinpourpia, R., Eceiza, A., & Adamopoulos, S. (2022). Polyurethane Wood Adhesives Prepared from Modified Polysaccharides. *Polymers*, 14.
- Japanese Agricultural Standard (JAS). (2007). *Glued laminated timber (JAS 234-2007)*. Ministry of Agriculture, Forestry, and Fisheries, Tokyo.
- Jha, K. K. (2016). What should be the rotation age and harvest management in teak. *Indian Forester*, 142(4), 309-316.
- Karlinasari, L., Adzkiya, U., & Tang, R. A. (2020, September). Dielectric properties of heat treated teak wood (*Tectona grandis* Linn. F). In *IOP Conference Series: Materials Science and Engineering* (Vol. 935, No. 1, p. 012064).
- Kaymakci, A., & Bayram, B. C. (2021). Evaluation of heat treatment parameters’ effect on some physical and mechanical properties of poplar wood with multi- criteria decision making techniques. *BioResources*, 16(3), 4693–4703.
- Kocaeffe D., S. Poncsak, G. Dore, dan R. Younsi. (2008). *Effect of Heat Treatment on Wettability of White Ash and Soft Maple by Water*. *Holz Roh Werkst* 66 : 355-361.
- Kol, H. Ş., Sefil, Y., & Keskin, S. A. (2015, September). Effect of heat treatment on the mechanical properties, and dimensional stability of fir wood. In *27th International Conference Research for the furniture industry* (pp. 17-18).
- Li, P., Wu, Y., Zhou, Y., & Zuo, Y. (2019). Preparation and characterization of resorcinol-dialdehyde starch-formaldehyde copolycondensation resin adhesive.. *International journal of biological macromolecules*, 127, 12-17 .
- Liao, Y., Tu, D., Zhou, J., Zhou, H., Yun, H., Gu, J., & Hu, C. (2017). Feasibility of manufacturing cross-laminated timber using fast-grown small diameter eucalyptus lumbers. *Construction and Building Materials*, 132, 508-515.
- Lim, H., Tripathi, S., & Tang, J. (2020). Bonding performance of adhesive systems for cross-laminated timber treated with micronized copper azole type C (MCA-C). *Construction and Building Materials*, 232, 117208.

- Lukmandaru G, Fatimah S, Fernandes A. (2015). Sifat kimia dan warna kayu keruing, mersawa, dan kapur. *Jurnal Penelitian Ekosistem Dipterokarpa*. 1(2): 69-80.
- Marsyad, M. A. R. (2023). Sifat Fisik dan Mekanis Laminasi Kayu Gmelina dan Jabon Merah yang Dimodifikasi dengan Perlakuan Panas. Skripsi Tidak dipublikasikan. Fakultas Kehutanan, Hasanuddin, Sulawesi Selatan.
- Martawijaya, A.I. dan Kartasujana. (1977). *Ciri Umum, Sifat dan Kegunaan Jenis-jenis Kayu Indonesia*. Laporan Publikasi Khusus No. 41. Lembaga Penelitian Hasil Hutan. Badan Penelitian dan Pengembangan Pertanian. Departemen Pertanian. Bogor.
- Martawijaya, A., Kartasujana, I., Kadir, K., & Prawira, S. A. (2005). Atlas kayu Indonesia jilid I. *Balai Penelitian Hasil Hutan. Badan Litbang Kehutanan. Bogor, Indonesia*.
- Martha, R., Mubarak, M., Batubara, I., Rahayu, I. S., Setiono, L., Darmawan, W., ... & Gerardin, P. (2021). Effect of furfurylation treatment on technological properties of short rotation teak wood. *Journal of Materials Research and Technology*, 12, 1689-1699.
- Masoumi, A., Zambrano Balma, F. X., & Bond, B. H. (2023). Adhesive Bonding Performance of Thermally Modified Yellow Poplar. *BioResources*, 18(4), 8151-8162
- Muharyani, N., Prayitno, T. A., & Widyorini, R. (2013). Sifat Kimia Kayu Jati Plus Perhutani (JPP) Umur 5 Tahun dengan Modifikasi Pemanasan. *Buletin Puslitbang*, 16(October), 56-63. Perum Perhutani.
- Nurmadina, N., Prayitno, T. A., & Febrianto, F. (2016). Pengaruh Umur dan Bonita terhadap Sifat Perekatan Laminasi Kayu Jati. *Jurnal Ilmu dan Teknologi Kayu Tropis*, 14(1), 80-86.
- Nurrachmania, M., Rozalina, R., & Sidabukke, S. (2020). Kualitas laminasi kayu akasia (*Accacia mangium*) menggunakan perekat isosianat. *Menara Ilmu: Jurnal Penelitian dan Kajian Ilmiah*, 14(2), ISSN 1693-2617
- Požgaj, A., Chovanec, D., Kurjatko, S., & Babiak, M. (1997). *Štruktúra a Vlastnosti Dreva [Structure and Wood Properties]*, 2nd Ed., Príroda a. s., Bratislava, Slovakia.
- Prayitno, T. A. (2009). *Perekatan Kayu*. Bagian Penerbitan Yayasan Pembina Fakultas Kehutanan UGM. Yogyakarta
- Qiu, H., Liu, R., and Long, L. (2019). "Analysis of chemical composition of extractives by acetone and the chromatic aberration of teak (*Tectona grandis L.f*) from China," *Molecules* 24(10), 1989-1998. DOI: 10.3390/molecules24101989.

- Rahmawati, A. S., & Erina, R. (2020). Rancangan acak lengkap (RAL) dengan uji anova dua jalur. *OPTIKA: Jurnal Pendidikan Fisika*, 4(1), 54-62.
- Santos, J. A. (2000). Mechanical behavior of *Eucalyptus* wood modified by heat. *Wood Science and Technology*, 34, 39-43.
- Shi, J. L., Kocaefe, D., & Zhang, J. (2007). Mechanical behaviour of Quebec wood species heat-treated using ThermoWood process. *Holz als Roh-und Werkstoff*, 65(4), 255-259.
- Silva, G. A. O., Curvo, K. R., Oliveira, A. C., Medeiros Neto, P. N., Vasconcelos, L. G., Carvalho, A. M. M. L., Silva, M. J., Natalino, R., and Pereira, B. L. C. (2023). "Effect of age on heartwood proportion, color, chemical composition, and biological resistance of teakwood," *BioResources* 18(2), 4116-4131. DOI: 10.15376/biores.18.2.4116-4131.
- Suharjo, A. A. C. (2018). Sifat Fisis Kayu Jati (*Tectona grandis* Lf) dan Jabon (*Neolamarckia cadamba* Roxb.) Hasil Modifikasi Panas. Skripsi Tidak dipublikasikan. Fakultas Kehutanan, Institut Pertanian Bogor, Jawa Barat.
- Susdiyanti, T., Meiganati, K. B., Lidiawati, I., Fakultas, A. A., Universitas, K., & Bangsa, N. (2023). Struktur Anatomi dan Sifat Fisik Kayu Jati (*Tectona grandis* L.f.) Unggul Nusantara Trubusan Pada Umur 8 Tahun. *Jurnal Hutan Lestari*, 11(1).
- Tjokrowijanto, B. B., Purwono, E. H., & Ramdlani, S. (2015). *Penerapan material kayu laminasi pada konstruksi Pusat Kerajinan Rakyat di Kota Batu* (Doctoral dissertation, Brawijaya University).
- Tobing, G., Sofiatrizkiyah, N., Basri, E., Martha, R., Rahayu, I., Gérardin, P., & Darmawan, W. (2024). Mikrostruktur dan karakteristik permukaan kayu pinus scots (*Pinus sylvestris* L.) termodifikasi gliserol dan asam sitrat. *Jurnal Ilmu Pertanian Indonesia*, 29(4), 554-563.
- Varga, D. dan M. E. van der Zee. (2008). *Influence of Steaming on Selected Wood Properties of Four Hardwood species*. *Holz Roh Werkst* 66:11-18
- Viitaniemi, P. (1997). ThermoWood – Modified wood for improved performance. In: *Proceedings of wood the ecological material the 4th Euro-wood symposium*. Stockholm, Sweden. Sep 22-23, 1997.
- Wahyudi, I. (2013). Hubungan Struktur Anatomi Kayu Dengan Sifat Kayu, Kegunaan dan Pengolahannya. *Makalah Diskusi Anatomi Kayu Indonesia*.
- Wang, P., S. Cheng., S. Cao., dan J. Cai. (2022). Evaluation of Color Changes, Wettability, and Moisture Sorption of Heat-Treated Blue-Stained Radiata Pine Lumber. *BioResources*, 17(3), 4952.
- Widyorini, R., Khotimah, K., & Prayitno, T. A. (2014). Pengaruh suhu dan metode perlakuan panas terhadap sifat fisika dan kualitas finishing kayu mahoni. *Jurnal Ilmu Kehutanan*, 8(2), 65-74.

- Wulandari, F. T., & Latifah, S. (2022). Karakteristik Sifat Fisika Dan Mekanika Papan Laminasi Kayu Bayur (*Pterospermum Diversifolium*) Sebagai Bahan Substitusi Papan Solid. *Wahana Forestra: Jurnal Kehutanan*, 17(2), 177–191.
- Yatma, T. D. N. (2012). Pengaruh Umur dan Posisi Aksial Terhadap Sifat Perekatan Kayu Jati (*Tectona grandis* Lf). Skripsi Tidak dipublikasikan. Fakultas Kehutanan, Universitas Gadjah Mada, Yogyakarta.
- Yildiz, S., Gezer, E. D., & Yildiz, U. C. (2006). Mechanical and chemical behavior of spruce wood modified by heat. *Building and Environment*, 41(12), 1762–1766.
- Yunianti AD. (2012). Karakteristik struktur nano dinding sel dan kaitannya dengan sifat-sifat kayu (studi kasus kayu jati klon umur 7 tahun). (Disertasi doctor). Institut Pertanian Bogor, Bogor, Indonesia.
- Yuningsih I, Rahayu IS, Dumasari L, Darmawan W. (2019). Wettability and adherence of acrylic paints on long and short rotation teaks. *Journal of Wood Material Science and Engineering*. 15(5): 1–8.