



DAFTAR PUSTAKA

- Anggraini, E., C.N. Primiani., & J. Widyanto. 2017. Kajian observasi tanaman famili *Lamiaceae*. Prosiding Seminar Nasional SIMBIOSIS II. Madiun 2: 469-477.
- Anonim. 1988. TAPPI test method. Tappi Press. Atlanta, Georgia.
- _____, 2011. Jati Unggul Nusantara (JUN). <http://www.jatijun.com>.
- _____. 2002. *Annual Book of ASTM Standards. Section Four Construction Volume 04.10 Wood*. West Conshohocken, PA.
- Alabi, K., & T. Oyeku. 2018. The chemical constituents extractable from teak tree (*Tectona Grandis Linn*) obtained from Fountain University, Osogbo. *Nigerian Journal of Basic and Applied Sciences* **25(1)**: 73.
- Amin, Y., S.A Danang., I. Wahyuni., S.K Sukma., & R. Damayanti. 2013. Anatomical characteristics and chemical properties of the branch-wood of *Schizolobium amazonicum ducke* species and its potential uses. *Indonesian Journal of Forestry Research* **10(2)**: 119–125.
- Arisandi, R., T. Ashitani, K. Takahashi, & S.N Marsoem. 2019. Chemical composition of the stemwood from *Eucalyptus pellita*. *Journal of Wood Chemistry and Technology* **40(2)**: 69–77.
- Bhat, K.M., & E.J.M. Florence. 2003. Natural decay resistance of juvenile teak wood grown in high input plantations. *Holzforschung*. **57(5)**: 453-455.
- Bhat, K.M., P.K. Thulasidas., E.J.M. Florence., & K. Jayaraman. 2005. Wood durability of home-garden teak against brown -rot and white-rot fungi. *Trees*. **19(6)**: 654-660.
- Bowyer, J. L., R. Shmulsky., & J.G. Haygreen. 2007. Forest product and wood science: An introduction Fifth Edition.



- Brown, H. P., A. J. Panshin., & C. C. Forsaith. 1952. Textbook of wood technology. McGraw-Hill Book Company, Inc. New York.
- Browning, B.L. 1967. Methods of Wood Chemistry Vol. I. Interscience Publishers, A Division of John Wiley and Sons, Inc. New York
- Budiaman, A., 2000. Kuantifikasi kayu bulat kecil limbah pemanenan pada pengusahaan hutan alam. *Jurnal Teknologi Hasil Hutan* **12(2)** : 34-43.
- Butterfield, B.G. 1993. The structure of wood: an overview. Chapter dalam J.C.F. Walker (Ed.) Primary Wood Processing, Principles and Practice. Chapman and Hall. Melbourne.
- Casey, J.P. 1960. Pulp and paper chemistry and chemical technology. Volume I. Pulping and Bleaching. Interscience Publisher. Inc. New York.
- Dewan Standarisasi Nasional. 1989. SNI 14-1031-1989. Cara uji kadar abu, silika dan silikat dalam kayu dan pulp kayu. Dewan Standarisasi Nasional. Jakarta
- Eriksson, D., M. Arshadi., R. Kataria., & U. Bergsten. 2018. Lipophilic extractives in different tree fractions and forestry assortments of *Pinus sylvestris* due for thinning or final cutting. *Scandinavian Journal of Forest Research* **33(6)**: 594-602.
- Efansyah, M.N., M. H. Bintoro., & W.H. Limbong. 2012. Prospek usaha bagi hasil penanaman jati unggul nusantara (studi kasus pada koperasi perumahan wanabakti nusantara di kabupaten Bogor). *Manajemen IKM* **7(1)**: 64–73.
- Fengel, D., & G. Wegener. 1995. Kayu : kimia, ultrastruktur, reaksi-reaksi. Gadjah Mada University Press (terjemahan). Yogyakarta.
- Fendi., & D. Kurniaty. 2016. Identification content extract of teak wood using Py-GCMS. *Jurnal Ilmu Pertanian Indonesia* **21(3)**: 167–71.
- Hadjib, N., M. Muslich., & G. Sumarni. 2006. Sifat fisis dan mekanis kayu jati super dan jati lokal dari beberapa daerah penanaman. *Jurnal Penelitian Hasil Hutan* **24(4)**: 359–69.



- Haupt, M., H. Leithoff., D. Meier., J. Puls, H. G. Richter, & O. Faix. 2003. Heartwood extractives and natural durability of plantation-grown teakwood (*Tectona grandis* L.)—a case study. *Holz als Roh- und Werkstoff* **61(6)**: 473-474.
- Haygreen, J.G., & J.L. Bowyer. 1986. Hasil hutan dan ilmu kayu (Terjemahan). Gadjah Mada University Press. Yogyakarta.
- Hidayati, F., I. T. Fajrin., M. R. Ridho., W. D. Nugroho., S. N. Marsoem., & M. Na'iem. 2016. Sifat fisika dan mekanika kayu jati unggul ‘mega’ dan kayu jati konvensional yang ditanam di hutan pendidikan, Wanagama, Gunungkidul, Yogyakarta. *Jurnal Ilmu Kehutanan* **10(2)**: 98-107
- Humar M., M. Petric., & F. Pohleven. 2001. Changes of pH of impregnated wood during exposure to wood-rotting fungi. *Holz als Roh- und Werkstoff* **59**: 288–293.
- Iskak, M., S. Siswamartana., U. Rosalina., A. Wibowo. 2005. Produktivitas tegakan jati JPP intensif sampai umur 20 tahun ke depan, seperempat abad 66 pemuliaan jati Perum Perhutani. Penerbit Pusat Pengembangan Sumber Daya Hutan (P3SDH) Perum Perhutani Jakarta 143-153.
- Iswanto, A.H., T. Sucipto., & F. Febrianto. 2011. Keasaman dan kapasitas penyangga beberapa jenis kayu tropis. *Jurnal Ilmu dan Teknologi Hasil Hutan* **4(1)**: 22-25
- Kanazawa, H., T. Nakagami., K. Nobashi., & T. Yokota. 1978. Studies on the gluing of the wood Articles. XI. The effects of teak wood extractives on the curing reaction and the hydrolysis rate of the urea resin. *Mokuzai gakkaishi* **24**: 55-59.
- Kaosa-ard, A. 1981. Teak (*Tectona grandis* L.f.) it's natural distribution and related factors. *Nat Hist Bull Siam Soc* **29**:55–74.
- Kollert, W., & M. Kleine. 2017. The global teak study. analysis, evaluation and future potential of teak resources. Vienna: International Union of Forestry Organizations. IUFRO World Series **36**:30-34



- Lourenço, A., D.M. Neiva., & Gominho, J., A.V. Marques., & H. Pereira. 2015. Characterization of lignin in heartwood, sapwood and bark from *Tectona grandis* using Py-GC-MS/FID. *Wood Sci Technol* **49**: 159–175
- Lubis, S. 2021. Analisis kimia dan pengolahan CMC (Carboxyl Methyl cellulose) dari cabang kayu Gaharu (*Aquilaria malaccensis* Lamk). Skripsi. Fakultas Kehutanan. Universitas Sumatera Utara
- Lukmandaru, G., & K. Takahashi. 2008. Variation in the natural termite resistance of teak (*Tectona grandis* Linn. fil.) wood as a function of tree age. *Annals of Forest Science* **65(7)**: 1286-1296.
- Lukmandaru, G. 2009. Sifat kimia dan warna kayu teras jati pada tiga umur berbeda. *Journal Tropical Wood Science and Technology* **7(1)**: 1–7.
- Lukmandaru, G. 2010. Variasi kadar abu dalam teras luar kayu jati. Prosiding Seminar Hutan Kerakyatan Mengatasi Perubahan Iklim 79–86.
- Lukmandaru, G. 2012. Chemotaxonomic study in the heartwood in the heartwood of Javanese teak - analysis of quinones and other related components. *Wood Research Journal* **3(1)**: 30-35.
- Lukmandaru, G., & I. G. N. D. Sayudha. 2012. Komposisi ekstraktif pada kayu jati juvenil. dalam Sulistyo, J., R. Widyorini,, G. Lukmandaru., M. N. Rofii,, & V.E Prasetyo., editor. Prosiding Seminar Nasional XIV MAPEKI. Yogyakarta. 361-366
- Lukmandaru, G., P. Wargono., A. Mohammad.,, & V. Prasetyo. 2018. Studi mutu kayu jati di hutan rakyat Gunungkidul. VII. Ketahanan terhadap rayap tanah. *Jurnal Ilmu Kehutanan* **12(1)**: 22 - 39.
- Manuri, S., C. A. S. Putra., A. D. Saputra. 2011. Teknik pendugaan cadangan karbon hutan. Merang REDD Pilot Project, German International Cooperation – GIZ. Palembang.
- Maloney, T.M. 1993. Modern particleboard and dry-Process fiberboard



manufacturing (updated edition). Miller Freeman, San Fransisco.

Martawijaya, A., K. Iding., K. Kosasi, dan P. A. Soewanda. 1981. Atlas kayu Indonesia jilid I. Pusat Penelitian dan Pengembangan Hasil Hutan. Bogor.

Martawijaya, A. 1996. Keawetan kayu dan faktor yang mempengaruhinya. Petunjuk Teknis Hal 47. Pusat Penelitian dan Pengembangan Hasil Hutan dan Sosial Ekonomi Kehutanan, Bogor.

Martawijaya, A., I. Kartasujana., K. Kadir., & S.A Prawira. 2005. Atlas kayu Indonesia jilid I. Pusat Penelitian dan Pengembangan Hasil Hutan. CV. Miranti. Bogor

Marsoem, S. N. 2013. Studi mutu kayu jati di hutan rakyat Gunungkidul. I. Pengukuran laju pertumbuhan. *Jurnal Ilmu Kehutanan* 7: 108-122.

Maulida, F., K. B. Meiganati., & M. Maslahat. 2020. Komponen kimia kayu trubusan jati unggul nusantara (*Tectona Grandis Linn.f.*) pada bagian pangkal, tengah dan ujung. *Jurnal Sains Natural* 10(2): 55.

Midgley, S.J., P.R. Stevens., & R. J. Arnold. 2017. Hidden assets: Asia's small holder wood resources and their contribution to supply chains of commercial wood. *Australian Forestry*. 80:10–25.

Miranda, I., V. Sousa., & H. Pereira. 2011. Wood properties of teak (*Tectona grandis*) from a mature unmanaged stand in East Timor. *Journal of Wood Science* 57(3): 171–78.

Nafitri, M., & G. Lukmandaru. 2010. Sifat kimia bambu hitam (*Gigantochloa Sp*) pada perbedaan arah radial dan ketinggian tempat tumbuh. Prosiding seminar nasional masyarakat peneliti kayu Indonesia (MAPEKI) XVI 318–24.

Nawawi, D.S. 2002. Keasaman lima jenis kayu tropis dan pengaruhnya terhadap korosi logam. *Jurnal Teknologi Hasil Hutan* 15(2): 18-24.

Niamke, F.B., N. Amusant., J.P Charpentier., G. Chaix., Y. Baissac., N. Boutahar., A.A Adima., S. Kati-Coulibaly., & C. J Allemand. 2011.



Relationships between biochemical attributes (non-structural carbohydrates and phenolics) and natural durability against fungi in dry teak wood (*Tectona grandis* L. f.). *Annals of Forest Science* **68**:201–21.

- Panshin A. J., & C. de Zeeuw. 1980. Textbook of wood technology. 4th edition. structure, identification, properties, and uses of the commercial woods of the United States and Canada. McGraw-Hill Book Company, New York.
- Pereira, H., J. Graca, & J. C. Rodrigues. 2003. Wood chemistry in relation to quality. in: Wood quality and Its biological basic. Barnett, R. J. & G. Jeronimidis (editor). Blackwell Publishing Ltd. USA.
- Pereira, B.L.C., A.M.M.L. Calvalho, A.C.O. Carneiro., L.C. Santos., & B.R. Vital, 2012. Quality of wood and charcoal from *Eucalyptus* clones for ironmaster use. *International Journal of Forestry Research* **(1)**: 1-8.
- Prawirohatmodjo, S. 1999. Struktur dan sifat-sifat kayu, Jilid 1, Sifat-Sifat Makroskopis dan Identifikasi Kayu . Fakultas Kehutanan, Universitas Gadjah Mada. Yogyakarta
- Prawirohatmojo, S. 2004. Kimia kayu. Diktat Kuliah tidak diterbitkan. Bagian Penerbitan Fakultas Kehutanan Universitas Gadjah Mada. Yogyakarta.
- Prayitno, T. A. 2004. Buku ajar perekatan kayu. Program Studi Teknologi Hasil Hutan Fakultas Kehutanan UGM. Yogyakarta.
- Polato, R., P. B. Laming., & R. Sierra-Alvarez. 2005. Assessment of some wood characteristic of teak of Brazilian origin. Quality Timber Product of Teak from Sustainable Forest Management. International Tropical Timber Organization (ITTO). Yokohama, Japan. 257 -265
- Purwanta, S., P. Sumantoro., H. D. Setyaningrum., & C. Saparinto. 2015. Budidaya dan bisnis kayu Jati. Penebar Swadaya. Jakarta.
- Putra, A. F. R., E. Wardenaar., & H. Husni. 2018. Analisa komponen kimia kayu Sengon (*Albizia falcataria* (L.) Fosberg) berdasarkan posisi ketinggian



- batang. *Jurnal Hutan Lestari* **6(1)**: 83-89.
- Rudman, P., H. J. Gay., & E. W. B Da Costa. 1967. Wood quality in plus trees of teak (*Tectona grandis* L.f.): an assessment of decay and termite resistance. *Sylvae Genetica* **16**: 102–5.
- Rowell, R. 1984. The chemistry of solid wood. American Chemistry Society, Washington D.C.
- Rowell, R., R. Pettersen., J. S. Han., J.S Rowell., & M.S. Tshabala. 2005. Cell wall chemistry. In : handbook of wood chemistry and wood composites. Rowell R (Ed). CRC Press. Boca Raton London New York Washington, D.C.
- Saminpanya, S., & F. Sutherland. 2018. Silica phase-transformations during diagenesis within petrified woods found in fluvial deposits from Thailand-Myanmar. *Sedimentary Geology* **290**: 15-26.
- Samariha, A., & Majid K. 2011. Chemical composition properties of stem and branch in *Alianthus altissima* wood. *Middle-East Journal of Scientific Research* **8(5)**: 967–70.
- Sandermann, W. & M.H. Simatupang. 1966. On the chemistry and biochemistry of teakwood (*Tectona grandis* L.f). *Holz als Roh- und Werkstoff* **24**: 190-204
- Shmulsky, R., & P. D. Jones. 2011. Forest products and wood science an introduction: sixth Edition.
- Siregar, E. B. M. 2005. Potensi budidaya jati. e-USU Repository. Universitas Sumatera Utara: Medan.
- Sjostrom, E., 1998. Kimia kayu: dasar-dasar dan penggunaan. edisi 2. Gadjah Mada University Press. Yogyakarta.
- Sumarna, Y. 2007. Budidaya jati. Penebar Swadaya. Yogyakarta.
- Supriono, B., & S. Luluk. 2012. Pertumbuhan tanaman jati unggul nusantara dengan pola agroforestry umur lima tahun. *Jurnal Sains Natural Universitas*



Nusa Bangsa **2(2)**: 179-185.

- Sokanandi, A., P. Gustan., & S. Dadang. 2014. Chemical component of ten planted less known wood species : possibility as bioethanol raw materials . *Jurnal Penelitian Hasil Hutan* **32(3)**: 209–210.
- Thulasidas P, Bailleres H. 2017. Wood quality for advanced uses of teak from natural and planted forests. *IUFRO World Ser* **36**: 73-81.
- Usta, M., & S. Kara. 1997. The chemical composition of wood and bark of *Cedrus libani* A. Rich. *Holz Als Roh- Und Werkstoff* **55(2-4)**: 268–268.
- Wahyudi, I., & A.F. Arifien. 2005. Perbandingan struktur anatomis, sifat fisis dan sifat mekanis kayu jati unggul dan kayu jati konvensional. *Jurnal Ilmu dan Teknologi Kayu Tropis* **3(2)**:53-59.
- Wangaard, F.F. 1966. Resistance of wood to chemical degradation. *Forest Product Journal* **16(2)**: 53-64
- White, K. J. 1991. Teak, some aspects of research and development. RAPA Publication 1991/17. FAO Regional Office for Asia and the Pacific, FAO, Bangkok.
- Windeisen, E., A. Klassen., & G. Wegener. 2003. On the chemical characterisation of plantation teakwood from Panama. *Holz Als Roh - Und Werkstoff* **61(6)**: 416–18.
- Yang, K.C., & C.A. Benson. 1997. Formation, distribution and its criteria for determining the juvenile-mature wood transition zone, Proceedings of the CTIA/IUFRO International Wood Quality Workshop 1-7
- Yang, H., R. Yan., H. Chen., D.H. Lee, & C. Zheng, 2007. Characteristics of hemicellulose, cellulose, and lignin Pyrolysis. *Fuel* **86(12)**:1781-1788.
- Zhou, Z., S. Liu., K. Liang., H. Ma., & G. Huang. 2016. Growth and mineral nutrient analysis of teak (*Tectona grandis*) grown on acidic soils in south China. *Journal of Forestry Research* **28(3)**: 503–511