



DAFTAR PUSTAKA

- Abubakari, A., S. Avramidis, L.C. Oliveira. 2012. Impact of radio frequencing heating pre-treatment on the kiln drying characteristics of sub-alpine fir. European Jurnal of wood products 70: 245-251
- Adamopoulos, S. 2002. Influence of hot-water extractives on radial and tangential shrinkage of black locust (*Robinia pseudoacacia* L.). European Journal of Wood and Wood Product 60(5): 377-378
- Anish, M.C., E.V. Anoop, R. Visnu, B. Sreejith, C.M. Jijeesh. 2015. Effect of growth rate on wood quality of teak (*Tectona grandis* L.f.): a comparative study of teak grown under differing site quality conditions. Journal of Indian Academy Wood Science 12(1): 81-88
- Badan Pusat Statistik (BPS). 2014. Statistik Curah Hujan Di Wilayah Indonesia. Badan Pusat Statistik Indonesia. Jakarta
- _____. 2016. *Statistik Pembudidayaan Tanaman Kehutanan 2016*. Badan Pusat Statistik Indonesia. Jakarta
- _____. 2016. *Statistik Produksi Kehutanan 2016*. Badan Pusat Statistik Indonesia. Jakarta
- Badan Pusat Statistik (BPS) Kabupaten Ngawi. 2018. *Kabupaten Ngawi dalam Angka*. Badan Pusat Statistik Kabupaten Ngawi. Ngawi
- Badan Pusat Statistik (BPS) Kabupaten Pemalang. 2018. *Kabupaten Pemalang dalam Angka*. Badan Pusat Statistik Kabupaten Pemalang. Pemalang
- Basri, E dan Wahyudi. 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
- Bowyer, J.L., R. Shmulsky, J.G. Heygreen. 2003. *Forest Products and Wood Science: Introduction*. Iowa State. Iowa
- Brown, N.C dan J.S. Bethel. 1958. *Lumber 2nd Edition*. John Wiley and Sons Inc. New York
- Candelier, K, S. Dumarçay, A. Pétrissans, L. Desharnais, P. Gérardin, M. Pétrissans. 2013. Comparison of chemical composition and decay durability of heat treated wood cured under different inert atmosphere: nitrogen or vacuum. Journal of Polymer Degradation and Stability 98: 677-681
- Carlsson, P., J. Arvforsson. 2000. Optimized wood drying. Journal of Drying Technology 18(8): 1779-1796
- Choong, E. T., S.S. Achmadi. 1991. Effect of extractives on moisture sorption and shrinkage in tropical woods. Journal of Wood and Wood Fibers 23(2): 185-196
- Cordes, J.W.H. 1992. *Hutan Jati di Jawa*. Yayasan Manggala Sylva Lestari Biro Jasa Konsultasi Perencanaan Hutan. Malang



- Darmawan, W., D. Nandika, R.K. Sari, A. Sitompul, I. Rahayu, D. Gardner. 2015. Juvenile and mature wood characteristics of short and long rotation teak in java. IAWA Journal 36 (4): 428-442
- Domec, J.C. dan M.L. Pruyn. 2008. Bole girdling affects metabolic properties and root, trunk and branch hydraulics of young ponderosa pine trees. Tree Physiology 28(10): 1493-1504
- Dwianto W. dan S.N. Marsoem. 2008. Tinjauan hasil-hasil penelitian faktor-faktor alam yang memengaruhi sifat fisik dan mekanik kayu. Jurnal Imu Teknologi Kayu 6(2): 85-100.
- 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): 259-269
- Hidayati, F., F. Ishiguri, K. Iizuka, K. Makino, J. Tanabe, S.N. Marsoem, M. Na'iem, S. Yokota, N. Yoshizawa. 2013. Growth characteristics, stress-wave velocity, and pilodyn penetration of 15 clones of 12-years-old *Tectona grandis* trees planted at two different sites in Indonesia. J Wood Sci 59:249-254
- Hildebrand, R. 1970. *Kiln Drying of Sawn Timber*. Nuertingen: Robert Hildebrand
- Hillis, W.E. 1987. *Heartwood and Tree Exudates*. Springer Series in Wood Science, Timell T.E. (ed.), Berlin
- Irawati, R.H. dan Purnomo, H. 2012. *Pelangi di Tanah Kartini: Kisah Aktor Mebel Jepara Bertahan dan Melangkah ke Depan*. CIFOR, Bogor, Indonesia.
- ITTO. 2010. Teak as potential plantation species. ITTO tropical timber market report 15(11) :1–15
- Jankowsky, I.P. 1992. *A Screening to Select Kiln Schedules*. IPEF International, Piracicaba 2:20-24.
- Keey R.B., T.A.G. Langrish, J.C.F. Walker. 2000. *Kiln-Drying of Lumber*. Springer Series in Wood Science, Timell T.E. (ed.), Berlin: Springer
- Keogh, R. 2009. The future of teak and the high-grade tropical hardwood sector: planted forests and trees working paper FP/44E.
- Khater, H.A., N.H. Helwa, M.M. Enayet, M.I. Hashish. 2004. Optimization of solar kiln for drying wood. Drying Technology 22(4): 677-701
- Kollert, W., L. Cherubini. 2012. Teak resources and market assessment 2010. FAO planted forests and trees working paper FP/47/E, Rome (<http://www.fao.org/forestry/plantedforests/67508@170537/en>)
- Langrish, T. Dan J.C.F. Walker. 2006. *Drying of Timber*. Wood Primary Processing, Walker, J.C.F (ed.), Dordrecht: Springer



Listyanto, T. 2011. *Skedul Pengeringan dalam Pengeringan Kayu dan Solusi Permasalahannya*. Cakrawala media. Yogyakarta

_____. 2016. *Teknologi Pengeringan Kayu dan Aplikasinya di Indonesia*. Gadjah Mada University Press. Yogyakarta

Listyanto, T., K. Ando, H. Yamaguchi, N. Hattori. 2013. Microwave and steam injection drying of CO₂ laser incised sugi lumber. *Journal of Wood Science* 59(4): 282-289

Listyanto, T. dan J.D. Nichols. 2009. A review of relationship between wood quality and silvicultural practices. *Indonesian Journal of Forest Science III* (2): 116-126

Listyanto, T., Y.S. Darmawan, R. Pujiarti, F. Hidayati, G. Lukamandaru, J. Sulistyo. 2016. Development of drying schedule of superior and conventional teak wood of ten years-old planted in blora, central java. *Jurnal Ilmu Kehutanan* 10(1): 65-73

Lukmandaru, G. 2010. Sifat kimia kayu jati (*Tectona grandis*) pada laju pertumbuhan berbeda. *Jurnal Ilmu dan Teknologi Kayu Tropis* 8 (2): 188-196

Marsoem, S.N. 1999. *Pengaruh Teresan Terhadap Sifat Fisika dan Tegangan Pertumbuhan Kayu Jati*. Prosiding Seminar Nasional II Mapeki. Yogyakarta. Buku I: 44-45

_____. 2013. Studi mutu kayu jati di hutan rakyat gunungkidul: I. Pengukuran laju pertumbuhan. *Jurnal Ilmu Kehutanan VII* (2)

Martawijata, A.J., I. Kartasudjana, Y.I. Mandang, S.A. Prawira, dan K. Kadir. 2005. *Atlas Kayu Indonesia Jilid I*. Badan Penelitian dan Pengembangan Departemen Kehutanan. Bogor

McMillen, J.M. 1958. *Stress in Wood During Drying*. Forest Product Laboratory, USDA. 33

Moore, J.R., A.J. Lyon, G.J. Searles, L.E. Vihermaa. 2009. The effects of site and stand factors on the tree and wood quality of stika spruce growing in the United Kingdom. *Silva Fennica* 43(3):383-396

Moore, G.M. 2013. *Ring Barking and Girdling: How Much Vascular Connection Do You Need Between Roots and Crown*. The 14th National Street Tree Symposium. Melbourne.

Moya, R., B. Bond, H. Quesada. 2014. A review of heartwood properties of *tectona grandis* trees from fast-growing plantations. *Journal of Wood Science Technology* 48: 411-433

Na'iem, M. 2002. Pentingnya penggunaan benih unggul dalam pembuatan tanaman jati dan standarisasi mutu bibit secara nasional. Prosiding Diskusi Penyediaan Bibit Unggul Jati (*Tectona grandis* Linn.). Pusat Litbang Bioteknologi dan Pemuliaan Hutan. Yogyakarta.



- Nugroho, Y., L. Reyes., D. Suprayogo, A. Kurnain. 2015. Quality evaluation of land and growth teak (*Tectona grandis* LF) in the humid tropic. International Journal of Ecosystem 5(3): 85-90
- Oltean, L., A. Teischinger, C. Hansmann. 2011. Influence of low and moderate temperature kiln drying schedules on specific mechanical properties of Norway spruce wood. European Journal Wood Product 69: 451-457
- Palaez-Samaniego, M.R., V. Yadama, E. Lowell, R. Espinoza-Herrera. 2013. A review of wood thermal pretreatments to improve wood composite properties. Journal of Wood Science Technology 47(6): 1285-1319
- Pe'rez D., Kanninen M. 2003. Heartwood, sapwood and bark content, and wood dry density of young and mature teak (*Tectona grandis*) trees grown in Costa Rica. Silv Fenn 37:45–54
- Perum Perhutani. 2012. Program Pemuliaan Jati (*Tectona grandis* L.f.) Tahun 2012-2026. Pusat Penelitian dan Pengembangan Perum Perhutani. Cepu
- _____. 2016. *Laporan Tahunan 2016: Mengubah Budaya Kerja Menguatkan Usaha*. Perum Perhutani. Jakarta
- _____. 2016. Jati Plus Perhutani. (<http://www.bumn.go.id/perhutani/halaman/144> (diakses 8 Januari 2018)
- Piao, J., N. Fujimoto, Y. Yamamoto, S. Nagata. 2008. Hybrid kiln drying system with radio frequency heating for hinoki boxed-heart timber with round edges. Journal of the Faculty of Agriculture Kyushu University 53(2): 505-509
- Pratt, G.H. 1974. *Timber Drying Manual*. Departement of the Building Research Establishment. London
- Pumijumning N. 2012. Teak tree ring widths: Ecology and climatology research in Northwest Thailand. Journal of Science, Technology and Development 31 (2), 165-174
- Purwanto, S., P. Sumantoro, H.D. Setyaningrum, C. Saparitno. 2015. *Budidaya dan Bisnis Kayu jati*. Penebar Swadaya. Jakarta
- Rini, D.S., S.N. Marsoem., dan J. Sulistyo. 2015. *Upaya Penurunan Kadar Air Kayu Jaati (*Tectona grandis* L.f) Hutan Rakyat Dengan Metode Teresan*. ISSN No. 1978-3787. Media Bina Ilmiah Volume 9, No. 6
- Rizanti, D.E., Darmawan D., George B., Merlin A., Dumancay S., Chapuls H., Gelhay E., Raharivelomanana P., Sari R.K., Syafii W., Mohamed R., Geradin P. 2018. Comparison of teak wood properties according to forest management: Short and long rotation. Annals of Forest Science 75:39
- Siau, J.F. 1995. *Wood: Influence of Moisture on Physical Properties*. Departement of Wood Science and forest Product, Virginia Polytechnic Institute and State University. Virginia
- Simon, H. 2007. *Metode Inventori Hutan*. Pustaka Pelajar. Yogyakarta



- Simpson, W.T. 1991. *Dry Kiln Operator's Manual*. United States Departement of Agriculture, Forest Service, Forest Product Laboratory, Madison, Wincosin
- Skaar, C. 1988. *Wood-Water Relations*. Springer Series in Wood Science, Timell T.E. (ed.), Berlin; Springer
- Sumarna Y. 2001. *Budidaya Jati*. Penebar Swadaya. Jakarta
- Suranto, Y., T.A. Prayitno, D. Marsono, J.P.G. Sutapa. 2015. Pengaruh umur pohon, bonita dan posisi aksial batang terhadap struktur makroskopis dan kualitas kayu jati sebagai bahan furnitur. *J. Manusia dan Lingkungan* 20 (1): 84-93
- Taylor, A. dan P. Cooper. 2002. *The Effect of Stem Girdling on Wood Quality*. *Wood and Fiber Science* V. 34 (2)
- Terazawa. 1965. Methods for easy determination of kiln drying schedules of wood. *Japan Wood Industry* 20: 216-226
- Tewari, D.N. 1999. *A Monograph on Teak (Tectona grandis Linn. f.)*. International Book Distributors. Dehra Dun
- Torgovnikov, G. dan P. Vinden. 2010. Microwave wood modification technology and its applications. *Forest Product Journal* 60 (2): 173-182
- Ueda, M., E. Shibata., H. Fukuda., A. Sano., dan Y. Waguchi. 2014. Girdling and tree death: lessons from chamaecyparis pisifera. *Canadian journal of forest research* 44(9): 1133-1137
- Uribe, B.E.B., O.A. Ayala. 2015. Characterization of three wood species (oak, teak and chanul) before and after heat treatment. *Journal of Indian Academy of Wood Science* 12(1): 54-62
- Wahyudi, I., T. Priadi, I.S. Rahayu. 2014. Karakteristik dan sifat-sifat dasar kayu jati unggul umur 4 dan 5 tahun asal jawa barat. *Jurnal Ilmu Pertanian (JIPI)* 19 (1): 50-56
- Wanneng, P. 2011. Wood property assessment of teak (*Tectona grandis* L.F.) plantation of different ages grown in Lao PDR. Thesis. School of Forest and Ecosystem Science, The University of Melbourne, Melbourne