

DAFTAR PUSTAKA

- Adi, D. S. dan S. N. Marsoem 2008. *Pengaruh Lama Pemasakan dan Konsentrasi Kaustik Soda (NaOH) terhadap Rendemen dan Sifat Fisik Pulp Pelepah Salak Metode Kimia Mekanik Sederhana*. Skripsi. Fakultas Kehutanan, UGM, Yogyakarta (Tidak dipublikasikan).
- Abdolzadeh, H. dan K. Doolthoseini. 2009. Evaluation of old corrugated countainer and wood fiber application on surface roughness of three layer particleboard. *Bioresources* 4(3):970-978.
- Agus, K dan R. Widyorini. 2014. *Pengaruh Jumlah Asam Sitrat, Suhu Kempa, dan Waktu Pengempaan terhadap Sifat Papan Partikel dari Pelepah Kelapa Sawit*. Skripsi. Fakultas Kehutanan, UGM, Yogyakarta (Tidak dipublikasikan).
- Aksi Agraris Kanisius, 1982. *Bertanam Pohon Buah-buahan*. Penerbit Kanisius, Yogyakarta.
- Anarsis, W. 2006. *Agribisnis Komoditas Salak*. Penerbit Bumi Aksara, Jakarta.
- Apelblat, A. 2014. *Citric acid*. Springer. Heildenberg, New York, Dordrecht, London.
- Arabi, M., M. Faezipour, M. Layeghi, dan A. A. Enayati. 2011. Interaction analysis between slenderness ratio and resin content on mechanical properties of particleboard. *Journal of Forestry Reseach* 22(3): 461-464.
- ASTM standards. 2015. *ASTM D 4442-15 Standard Test Merhods for Direct Moisture Content Measurement of Wood and Wood-Based Material*. ASTM International, West Conshohocken, PA.
- Berglund, L. dan R. M. Rowell. 2005. *Wood Composites in Handbook of Wood Chemistry and Wood Composites*. CRC Press, Boca Raton, London, New York, Singapore.
- BPS Provinsi DIY. 2015. *Daerah Istimewa Yogyakarta dalam Angka*. Yogyakarta.
- Cai, Z., Q. Wu, J. N. Lee, dan S. Hiziroglu. 2004. Influence of board density, mat construction, and chip type on performance of particleboard made from eastern redcedar. *Forest Products Journal* 54(12): 226-232.
- FAO. 1996. *World Food Summit*. Food and Agriculture Organization of the United Nations, Rome.
- FAO. 2005. *Global forest resources assessment 2005: progress towards sustainable forest management*. Food and Agriculture Organization of the United Nations, Rome.

- FAO. 2017. *The 69th Issue of the FAO Yearbook of Forest Products*. Food and Agriculture Organization of the United Nations, Rome.
- Flores, J. A., J. J. Pastor, A. Martinez-Gabarron, F. J. Gimeno-Blanes, dan M. J. Frutos. 2011. Pressure impact on common reed particleboards manufacturing procedure. *System Engineering Procedia* 1 499-507.
- Ghalehno, M. D., M. Nazerian, dan A. Bayatkashkoli. 2013. Experimental particleboard from bagasse and industrial wood particles. *International Journal of Agriculture and Crop Science* 1626-1631.
- Hashim, R., N. Said, J. Lamaming, M. Baskaran, O. Sulaiman, M. Sato, S. Hiziroglu, dan T. Sugimoto. 2011. Influence of press temperature on the properties of binderless particleboard made from oil palm trunk. *Materials and Design* 32: 2520-2525.
- Haygreen, J. G. dan J. L. Bowyer. 1989. *Hasil Hutan dan Ilmu Kayu: Suatu Pengantar (Terjemahan)*. Gadjah Mada University Press. Yogyakarta.
- Hiziroglu, S., dan S. Suzuki. 2007. Evaluation of surface roughness of commercially manufactured particleboard and medium density fiberboard in Japan. *Journal of Material Processing Technology* 184: 436 - 440.
- JIS (*Japan Industrial Standard*). 2003. *Particleboard A5908*. Japanese Standard Association. Tokyo.
- Kamthani, S. dan P. Puthson. 2005. The physical properties, fiber morphology, and chemical composites of sweet bamboo (*Dendrocalamus asper* Backer.). *Kasetsart Journal* 39: 581-587.
- Kementrian Pertanian. 2015. *Rencana Strategis Kementrian Pertanian Tahun 2015-2019*. Jakarta.
- Kasanah, S. 2004. *Pengaruh Kerapatan Papan dan Jumlah Perekat Urea Formaldehida terhadap Sifat Papan Partikel Pelepah Salak*. Skripsi. Fakultas Kehutanan, UGM, Yogyakarta (Tidak dipublikasikan).
- Kareem, S. O., I. Akpan, dan O. O. Alebiowu. 2010. Production of citric acid by *Aspergillus niger* using pineapple waste. *Malaysian Journal of Microbiology* 6(2): 161-165.
- Kollman, F. F. P., E. W. Kwenzki, dan A. J. Stamm. 1975. *Principles of wood science and technology II wood based materials*. Springer-Verlag. Berlin, Heidelberg, New York, USA.

- Kusumah, S. S., K. Umemura, K. Yoshioka, H. Miyafuji, dan K. Kanayama. 2016. Utilization of sweet sorghum bagasse and citric acid for manufacturing of particleboard 1: effects of pre-drying treatment and citric acid content on the board properties. *Industrial Crops and Products* 84: 34-42.
- Lee, S. H., Z. Azhaari, L. W. Chen, H. P. San, T. L. Peng, C. M. Jinn, C. E. Wen, dan C. K. Ling. 2015. Properties of particleboard with oil palm trunk as core layer in comparison to three-layer rubberwood particleboard. *Journal of Oil Palm Research* 27(1):67-74.
- Lukmandaru, G., I. G. N. D. Sayudha, L. S. Gustomi, dan V. E. Prasetyo. 2011. Pengukuran kadar ekstraktif dan sifat warna *Acacia mangium* dari lima provenans. *Prosiding Seminar Nasional MAPEKI XIII* 388-389.
- Maloney, T. M. 1977. *Modern Particleboard and Dry Process Fiberboard Manufacturing*. Miller Freeman Inc., San Fransisco.
- Mattey, M. dan B. Kristiansen. 2002. *A Brief Intoduction to Citric Acid Biotechnology* dalam Kristiansen, B., M. Mattey, dan J. Linden (ed.) *Citric Acid Biotechnology*. Taylor & Francis Ltd, London.
- McSweeny, J. D., R. M. Rowell, dan S. H. Min. 2006. Effect of citric acid modification of aspen wood on sorption of cooper ion. *Jounal of Natural Fibers* 3(1) 2006.
- Meadoza, M. S., P. Navarette, dan A. Pizzi. 2010. Effect of layers relative moisture content on the ib strength of pine tannin bonded particleboard. *European Journal Wood Product* 68: 355-357.
- Napitupulu, P. M. 2008. *Pemisahan dan Penentuan Kadar Asam Sitrat dari Buah Asam Jawa (*Tamarindus indica* Linn)*. Skripsi. Departemen Kimia, Fakultas Matematika dan Ilmu Pengetahuan Alam, USU, Medan.
- Nazerian, M., M. D. Ghalehno., M. Shojaiishad, H. Sharifpoor, dan M. T. Taftiyan. 2011. Properties of three-layer particleboard made from wood of Athel (*Tamarix aphylla*) and pruning particles of Almond (*Amygdalus communis*) and Pistachio (*Pistacia vera*). *Journal Basic* 1(8): 837-843.
- Nemli, G. 2003. Effects of some manufacturing factors on the properties of particleboard manufactured from alder (*Alnus glutinosa* Subs. Barbata). *Turkey Journal Agriculture Forestry* 27: 99-104.
- Nemli, G., I. Ozturk, dan I. Aydin. 2005. Some of the parameters influencing surface roughness of particleboard. *Building and Environment* 40: 1337-1340.
- Obeng, E. A., B. K. Via, dan O. Fasina. 2012. Effect of microcrystalline cellulose, species, and particle size on mechanical and physical properties of particleboard. *Wood and Fiber Science* 44: 1-9.

- Pan, Z., Y. Zheng, R. Zhang, dan B. M. Jenkins. 2007. Physical properties of thin particleboard made from saline eucalyptus. *Industrial Crops and Products* 26: 185-194.
- Pantze, A. 2006. *Studies of Ester Formation on a Cellulose Matrix*. Lule University of Technology Division of Wood Science and Technology 18 – ISSN: 1402-1757.
- Prasetyo, B. D., R. Widyorini, dan T. A. Prayitno. 2016. *Pemanfaatan Pelepah Salak Sebagai Bahan Baku Pembuatan Papan Partikel dengan Perekat Asam Sitrat*. Skripsi. Fakultas Kehutanan, UGM, Yogyakarta (Tidak dipublikasikan).
- Prayitno, T. A. 1995. *Teknologi Papan Majemuk*. Fakultas Kehutanan, UGM, Yogyakarta.
- Prayitno, T. A. 2011. *Bahan Ajar Perekatan Kayu*. Fakultas Kehutanan, UGM, Yogyakarta.
- Prayitno, T. A., Wirnasari, dan D. Sriyanti. 2011. Pengaruh shelling ratio dan jumlah perekat urea formaldehida terhadap sifat papan serutan bambu petung (*Dendrocalamus asper* Backer). Prosiding Seminar Nasional MAPEKI XIV 163-170.
- Prayitno, T. A. 2012. *Teknologi Perekatan Kayu*. Fakultas Kehutanan, UGM, Yogyakarta.
- Rofii, M. N., S. Yumigeta, S. Suzuki, dan T. A. Prayitno. 2013. Effects of shelling ratio and particle characteristic on physical properties of three layered particleboard made from different wood species. *Wood Research Journal* 4: 25-30.
- Rofii, M. N., T. A. Prayitno, dan S. Suzuki. 2016. Dynamic modulus of three-layer board with different furnish and shelling ratio. *Journal of the Korean Wood Science and Technology* 44(2): 274-282.
- Rong, H., Z. Ryu., J. Zheng, dan Y. Zhang. 2002. Effect of air oxidation of rayon-based activation carbon fibers on the adsorption behavior for formaldehyde. *Carbon* 40: 2291-2300.
- Rowe, R. C., P. J. Sheskey, dan E. Q. Marian. 2009. *Handbook of Pharmaceutical Excipients (6th ed.)*. Pharmaceutical Press. USA.
- Rowell, R. M. 2005. *Handbook of Wood Chemistry and Wood Composites*. Taylor & Francis Group, Boca Raton New York Singapore.
- Rukmana, R. 1999. *Salak: Prospek Agribisnis dan Teknik Usaha Tani*. Penerbit Kanisius, Yogyakarta.

- Santoso, H. B. 1990. *Salak Pondoh*. Penerbit Kanisius, Yogyakarta.
- Sarmin, S. N., N. Rosman, dan J. Kasim. 2014. Effect of different resin content and densities on some properties of hybrid wood sawdust-*Acacia mangium* composites. Proceeding of the International Conference on Science, Technology, and Social Sciences (ICSTSS) 2012 485-491.
- Sari, N. H., Sinarep, A. Taufan, dan I. G. N. K. Yudhadi. 2011. Ketahanan bending komposit hybrid serat batang kelapa/serat gelas denga matrik urea formaldehyde. *Jurnal Ilmiah Teknik Mesin Cakra M* 5(1): 91-97.
- Sasmitaloka, K. S. 2017. Produksi asam sitrat oleh *Aspergillus niger* pada kultivasi media cair. *Jurnal Integrasi Proses* 6(3): 116-122.
- Sastroprodjo, S. 1980. *Fruits*. IBPGR Secretariat Home.
- Siregar, W. L. V. 2007. *Perancangan Kemasan Transportasi Buah Salak (*Salacca edulis*) Berbahan Baku Pelepah Salak*. Thesis. Sekolah Pascasarjana, IPB, Bogor (Tidak dipublikasikan).
- Soraya, D. K. dan R. Widyorini. 2016. *Pengaruh Perlakuan Ekstraksi dan Jumlah Perekat Asam Sitrat terhadap Sifat Fisika dan Mekanika Papan Partikel dari Pelepah Salak (*Salacca sp.*)*. Skripsi. Fakultas Kehutanan, UGM, Yogyakarta (Tidak dipublikasikan).
- Stark, N. M., Z. Cai., dan C. Carll. 2010. *Wood-Based Composite Materials Panel Products, Glued Laminated Timber, Structural Composite Lumber and Wood-Nonwood Composites Materials in Wood Handbook; Wood as an Engineering Material Centennial Edition*. Forest Product Laboratory. Madison, Winsconsin.
- Steel, R. G. D. dan J. H. Torrie. 1995. *Prinsip dan Prosedur Statistika*. Penerjemah Bambang Sumatri. Penerbit Gramedia Pustaka, Jakarta.
- Sukendro, S. 2013. *Peluang Usaha Prospektif Budidaya Salak*. Penerbit Cahaya Atma Pustaka, Yogyakarta.
- Sutrisno, M., D. Emmy, dan L. S. S. Wiyana. 2008. Pemanfaatan pelepah salak untuk kemasan transportasi buah salak (*Salacca edulis*). Prosiding Seminar Nasional Teknik Pertanian.
- Thanh, N. D. dan H. L. Nhung. 2009. Cellulose modified with citric acid and its absorption of Pb^{+} dan Cd^{2+} ions. Prosiding 13rd International Electronic Conference on Synthetic Organic Chemistry (ECSOC-13).
- Tim Karya Tani Mandiri. 2010. *Pedoman Budidaya Buah Salak*. CV Nuansa Aulia. Bandung.

- Tjahjadi, N. 1995. *Bertanam Salak*. Penerbit Kanisius, Yogyakarta.
- Tjitrosoepomo, G. 2004. *Taksonomi Tumbuhan (Spermatophyta)*. Gadjah Mada University Press. Yogyakarta.
- Tsoumis, G. 1991. *Science and Technology of Wood (Structure, Properties, Utilization)*. Van Nostrand Reinhold Company. New York.
- Umemura, K., T. Ueda, dan S. Kawai. 2011. Application of citric acid as natural adhesive for wood. *Journal of Applied Polymer Science* 123: 1991-1996.
- Umemura, K., T. Ueda, dan S. Kawai. 2012a. Effect of moulding temperature on physical properties of wood-based moulding bonded with citric acid. *Forest Product Journal* 62(1): 63-68.
- Umemura, K., T. Ueda, dan S. Kawai. 2012b. Characterization of wood-based molding bonded with citric acid. *Journal of Wood Science* 58: 38-45.
- Vital, B. R., W. F. Lehmann, dan R. S. Boone (1974). How species and board densities affect properties of exotic hardwood particleboard. *Forest Product Journal* 24(12): 37-45.
- Widyorini, R., J. Y. Xu, T. Watanabe, dan S. Kawai. 2005. Chemical changes in steam-pressed kenaf core binderless particleboard. *Journal of Wood Science* 51(1): 26-32.
- Widyorini, R. dan T. A. Prayitno. 2009. *Teknologi Komposit*. Fakultas Kehutanan, UGM, Yogyakarta.
- Widyorini, R., A. P. Yudha, dan T. A. Prayitno. 2011. Some of the properties of binderless particleboard manufactured from bamboo. *Wood Research Journal* 2(2): 89-93.
- Widyorini, R., A. P. Yudha, A. Ngadianto, K. Umemura, dan S. Kawai. 2012. Development of bio-based composite made from bamboo and oil palm frond. *Proceedings of BIOCAMP 2012 (11th Pacific Rim Bio-Based Composite Symposium)* 219-225. Shizuoka. Japan.
- Widyorini, R., A. P. Yudha, R. Isnain, A. Awaluddin, T. A. Prayitno, A. Ngadianto, dan K. Umemura. 2014. Improving the psycho mechanical properties of eco-friendly composite made from bamboo. *Advanced Materials Research* 896: 562-565.
- Widyorini, R., T. A. Prayitno, W. D. Nugroho, dan A. Awaludin. 2015. *Pengembangan Produk Komposit Ramah Lingkungan dari Serat Alam dengan Perekat Alami Berbasis Asam Sitrat Sebagai Upaya Penurunan Emisi Formaldehida*. Laporan Akhir Penelitian Unggulan Perguruan Tinggi (Baru). Yogyakarta.

- Widyorini, R., K. Umemura, R. Isnani, D. R. Putra, A. Awaludin, dan T. A. Prayitno. 2016. Manufacture and properties of citric acid-bonded particleboard made from bamboo materials. *European Journal Wood Product* (74): 57-65.
- Yusoff, N. F., J. Kasim, H. Lias, M. C. Hussin, dan N. F. Jasmi. 2014. Evaluation of 3-layer oil palm frond particleboard. *International Journal of Latest Research in Science and Technology* 3(6): 183-186.