

DAFTAR PUSTAKA

- Abdurachman A, Hadjib N. 2011. Sifat papan partikel dari kayu kulit manis (*Cinnamomum burmanii* BL). Jurnal Penelitian Hasil Hutan, **29(2)**: 128-141.
- Aini EN. 2016. Pengaruh jumlah dan komposisi perekat asam sitrat-pati terhadap sifat fisika dan mekanika papan komposit dari serat kenaf (*Hibiscus cannabinus* L.). Disertasi (Tidak dipublikasikan). Fakultas Kehutanan, Universitas Gadjah Mada. Yogyakarta.
- Amos A. 2010. Kandungan katekin gambir sentra produksi di Indonesia. Jurnal Standardisasi, **12(3)**: 149-155.
- Anindyawati, T. 2017. Prospek enzim dan limbah lignoselulosa untuk produksi bioetanol. Jurnal Selulosa, **44(01)**.
- Aprilia V, Widyorini R. 2022. Pengaruh suhu dan waktu pengempaan terhadap sifat papan partikel bambu betung dengan perekat gambir-sukrosa. Skripsi (Tidak dipublikasikan). Fakultas Kehutanan Universitas Gadjah Mada. Yogyakarta.
- BPS. 2021. Statistik produksi kehutanan tahun (2021). Badan Pusat Statistik Indonesia. Jakarta.
- Badan Standardisasi Nasional. 2006. SNI 03-2105 (2006) Papan partikel. Badan Standardisasi Nasional. Jakarta.
- Budi S. 2011. Pembuatan komposit (papan partikel) dari bahan serat rami dan serbuk *cocopeat* dengan perekat urea formaldehida. Disertasi (Tidak dipublikasikan). Universitas Gadjah Mada. Yogyakarta.
- Budi US, Hartati S, Purwati DR. 2005. Biologi tanaman rami. Monograf Balittas.
- Diaz JP, Agustín OM, Hernández AG. 2013. Foods as sources of mono and disaccharides: biochemical and metabolic aspects. Nutricion Hospitalaria **28(4)**: 5–16.
- Direktorat Jenderal Perkebunan. 2014. Data statistik produksi tanaman rami tahun 2014. Direktorat Jendral Perkebunan. Jakarta.
- FAO. 1996. FAO Report of international consultation on instalation board (hardboard and particleboard). Food and Agriculture Organization. Roma.
- Fathanah U, Sofyana. 2013. Pembuatan papan partikel (particle board) dari tandan kosong sawit dengan perekat kulit akasia dan gambir. Jurnal Rekayasa Kimia dan Lingkungan **9(2)**: 137-143.

- Ferdinal N. 2014. A simple purification method of catechin from gambier. *International Journal on Advanced Science, Engineering and Information Technology* **4(6)**: 53-55.
- Foyer G, Chanfi BH, Virieux D, *et al.* 2016. Aromatic dialdehyde precursors from lignin derivatives for the synthesis of formaldehyde-free dan high char yield fenolic resins. *Eur Polym Journal* **77**: 65-74.
- Hakim L, Febrianto F. 2005. Karakteristik fisis papan komposit dari serat batang pisang (*Musa .sp*) dengan perlakuan alkali. *Peronema Forestry Science Journal* **1(1)**: 1-37.
- Hashim R, Saari N, Sulaiman, *et al.* 2010. Effect of particle geometry on the properties of binderless particleboard manufactured from oil palm trunk. *Materials and Design* **31(9)**: 4251–4257
- Hashim R, Said N, Lamaming J, *et al.* 2011. Influence of press temperature on the properties of binderless particleboard made from oil palm trunk. *Materials and Design* **32(5)**: 2520-2525.
- Haygreen JG, JL Bowyer. 2007. Hasil hutan dan ilmu kayu. suatu pengantar (terjemahan). Gadjah Mada University Press. Yogyakarta.
- Hera N, Rizki A, Ahmad TA. 2020. Eksplorasi dan karakteristik morfologi tanaman gambir liar (*Uncaria gambir*) pada lahan gambut dataran rendah di Kota Pekanbaru. *Menara Ilmu* **14(2)**: 68-72.
- Honig P. 1953. Principles of sugar technology. Elsevier Publishing Company. Amsterdam.
- Jamaludin MA, Bahari SA, Zakaria MN, *et al.* 2020. Influence of rice straw, bagasse, and their combination on the properties of binderless particleboard. *Journal of the Korean Wood Science and Technology* **48(1)**: 22-31.
- Jastra Y, Atman. 2016. Produksi gambir : strategi meningkatkan produksi gambir. Plantaxia. Yogyakarta.
- Jayaprakash K, Osama A, Rajagopal, R, *et al.* 2022. Agriculture waste biomass repurposed into natural fibers: a circular bioeconomy perspective. *Bioengineering*, **9(7)**: 296.
- JIS. 2003. Japanese Industrial Standard A 5908:2003 Particleboards. Japanese Standards Association. Tokyo.
- Kasim A, Yumarni, Fuadi A. 2007. Pengaruh suhu dan lama pengempaan pada pembuatan papan partikel dari batang kelapa sawit (*Elaeis guineensis* Jacq.)

dengan perekat gambir (*Uncaria gambir* Roxb.) terhadap sifat papan partikel. Jurnal Ilmu dan Teknologi Kayu Tropis **5(1)**: 17-21.

Kelly M. W. 1977. Critical literature review of relationships between processing parameters and physical properties of particleboard. Forest Product Laboratory. Madison.

Kementerian Lingkungan Hidup dan Kehutanan. 2020. Hutan dan deforestasi indonesia tahun (2019). Jakarta: Kementerian Lingkungan Hidup dan Kehutanan. Diakses dari http://ppid.menlhk.go.id/siaran_pers/browse/2435

Kozłowski R, Rawluk M, Barriga-Bedoya J. 2005. Ramie. In bast and other plant fibres 207-227. Woodhead Publishing.

Liu F, Liu Q, Liang X, *et al.* 2005. Morphological, anatomical, and physiological assessment of ramie [*Boehmeria Nivea* (L.) Gaud.] tolerance to soil drought. Genetic Resources and Crop Evolution **52(5)**: 497-506.

Maloney TM. 1977. Modern particleboard and dry process fiberboard manufacturing. Miller Freeman Publishing Inc. USA.

Mamza PAP, Ezech EC, Gimba EC, *et al.* 2014. Comparative study of *phenol-formaldehyde* and *urea formaldehyde* particleboards from wood waste for sustainable environment. International Journal of Scientific & Technology Research **3(1)**: 53–56.

Mantanis GI, Athanassiadou ET, Barbu MC, *et al.* 2017. Adhesive systems used in the European particleboard, MDF and OSB industries. Wood Material Science & Engineering 1-13.

Marlinda. 2018. Identifikasi kadar katekin pada gambir (*Uncaria gambir* Roxb). Jurnal Optimalisasi **4(1)**: 47-53.

Matsumoto S, Yamazaki T, Takemura I. 2001. Development of using technique for unused ligneous material: forming woodenboard without adhesive (in Japanese). Saitama Prefecture Industrial Technology Center Report **3**: 1–4.

Mawardi I. 2009. Mutu papan partikel dari kayu kelapa sawit (KKS) berbasis perekat *polystyrene*. Jurnal Teknik Mesin, **11(2)**: 91-96.

Nandika D, Arinana, Kusumawardhani DT, *et al.* 2019. Katekin sebagai Pengawet Kayu. IPB Press. Bogor.

Nasution, FM. 2017. Pembuatan dan karakterisasi papan komposit serat daun nanas dengan perekat polipropilen.

- Ngadianto A, Ganis L, Dhuria MS, *et al.* 2018. Karakteristik papan partikel dari limbah kulit kacang tanah dengan perekat alami asam sitrat dengan pelarut asap cair. *Jurnal Belantara* **1(2)**: 77-88.
- Novarini E, Sukardan MD. 2015. Potensi serat rami (*Boehmeria nivea* S. Gaud) sebagai bahan baku industri tekstil dan produk tekstil dan tekstil teknik. *Arena Tekstil*, **30(2)**.
- Nuryaman, A., Iwan, R., dan Pamona, S.N. (2009). Sifat fisik mekanik papan partikel dari limbah pemanenan kayu. *Jurnal Ilmu dan Teknologi Hasil Hutan*. **2(2)**: 57 – 63.
- Okuda N, Sato M. 2004. Manufacture and mechanical properties of binderless boards from kenaf core. *Journal of Wood Science*, **50(1)**: 53-61.
- Ormondroyd, G. A. (2015). Adhesives for wood composites. In *Wood Composites* 47-66. Woodhead Publishing.
- Pizzi A, Papadopoulos, AN, Policardi F. 2020. Wood composites and their polymer binders. *Polymers*, **12(1115)**: 1-27.
- Prayitno TA. 2012. Teknologi Perekatan Kayu. Departemen Teknologi Hasil Hutan, Fakultas Kehutanan UGM. Yogyakarta.
- Purwanto D, Riset B, Banjbaru SI. 2016. Sifat fisis dan mekanis papan partikel dari limbah campuran serutan rotan dan sebak kayu. *Jurnal Riset Industri*, **10(3)**: 125-133.
- Rahmawati N, Bakhtiar A, Putra DP. 2012. Isolasi katekin dari gambir (*Uncaria gambir* Roxb) untuk sediaan farmasi dan kosmetik. *Jurnal Penelitian Farmasi Indonesia* **1(1)**: 6-10.
- Ruhendi S, Koroh DN, Syamani FA, *et al.* 2007. Analisis Perekatan Kayu. Fakultas Kehutanan, Institut Pertanian Bogor. Bogor.
- Sabarni. 2015. Teknik pembuatan gambir (*Uncaria gambir* Roxb) secara tradisional. *Journal of Islamic Science and Technology* **1(1)**: 106.
- Santoso A, Hadi YS, Malik J. 2012. Tannin resorcinol formaldehyde as potential glue for the manufacture of plybamboo. *Journal of Forestry Research*, **9(1)**: 1~6.
- Setyawati D, Hadi YS, Massijaya Y, *et al.* 2006. Kualitas papan komposit berlapis finis dari sabut kelapa dan plastik polietilena daur ulang: variasi ukuran partikel sabut kelapa. *Jurnal Perennial*, **2(2)**: 5-11.

- Sitanggang JP, Sucipto T, Azhar I. 2015. Pengaruh kadar perekat urea formaldehida terhadap kualitas papan partikel dari kayu gamal. *Peronema Forestry Science Journal*, **4(2)**: 166-174.
- Standar Nasional Indonesia. 1996. Mutu Papan Partikel SNI 07-2105-1996. Dewan Standar Nasional. Jakarta.
- Sucipto T, Widyorini R, Prayitno TA, *et al.* 2020. Properties of a new adhesive composed of gambir-sucrose. *Journal of the Korean Wood Science and Technology*, **48(3)**: 303-314.
- Sucipto T. 2021. Karakteristik perekat berbasis gambir-sukrosa sebagai perekat papan partikel bambu. Disertasi (Tidak dipublikasikan). Fakultas Kehutanan, Universitas Gadjah Mada, Yogyakarta.
- Sutiawan J, Dede H, Sukma SK, *et al.* 2020. Pemanfaatan maltodextrin singkong untuk perekat ramah lingkungan dalam pembuatan papan partikel dari bagas sorgum. *Jurnal Sylva Lestari* **8(2)**: 144-154.
- Swenberg JA, Moeller BC, Lu K, *et al.* 2013. Formaldehyde carcinogenicity research: 30 years and counting for mode of action, epidemiology, and cancer risk assessment. *Toxicologic Pathology* **41(2)**: 181–189.
- Syamani, FA, Munawar SS. 2010. Papan serat sisal dengan perekat ramah lingkungan. In *Proceeding of Indonesia Wood Research Society National Seminar*. 37-42.
- Tsoumis G. 1991. *Science and technology of wood (structure, properties, utilization)*. Van Nostrand Reinhold Company. New York.
- Udarno ML, Asep W. 2013. Perkembangan bunga tanaman gambir (*Uncaria gambir* Roxb). *Warta Penelitian dan Pengembangan Tanaman Industri* **19(1)**: 17-19.
- Umemura K, S Hayashi, S Tanaka, *et al.* 2017. Changes in physical and chemical properties of sucrose by the addition of ammonium dihydrogen phosphate. *Journal of The Japan Adhesive Research Society* **53(4)**: 112 – 117.
- US EPA. 2002. *Compilation of air pollutant emission factors: chapter 10 plywood and composite wood products*. Fifth Edition. United State Department of Agriculture Forest Service. Madison.
- Wicaksono IA, Windani I, Erny E. 2021. Prioritas strategi pengembangan serat rami (*Boehmeria nivea proper*) jenis in grass di Kabupaten Wonosobo. *Agroland: Jurnal Ilmu-ilmu Pertanian*, **28(2)**: 197-203.

- Widyorini R, Nugraha PA. 2015. Sifat fisis dan mekanis papan partikel sengon dengan perekat asam sitrat sukrosa. *Jurnal Ilmu Teknologi Kayu Tropis* **13** (2):175 – 184.
- Widyorini R, Nugraha PA, Rahman MZA, *et al.* 2016. Bonding ability of a new adhesive composed of citric acid-sucrose for particleboard. *BioResources* **11**(2): 4526–4535.
- Widyorini R, Umemura K, Septiano A, *et al.* 2018. Manufacture and properties of citric acid- bonded composite board made from salacca frond: effect of maltodextrin addition, pressing temperature, and pressing method. *BioResources* **13**(4): 8662–8676.
- Widyorini R, Xu J, Watanabe T, *et al.* 2005. Chemical changes in steam-pressed kenaf core binderless particleboard. *Journal of Wood Science*, **51**(1): 26-32.
- Widyorini R, Yudha AP, Prayitno TA. 2011. Some of the properties of binderless particleboard manufactured from bamboo. *Wood Research Journal* **2**(2): 89-93.
- Widyorini R. 2020. Evaluation of physical and mechanical properties of particleboard made from petung bamboo using sucrose-based adhesive. *BioResources* **15**(3): 5072–5086.
- Zhang YH, Huang YX, Ma HX, *et al.* 2018. Effect of different pressing process and density on the dimensional stability and mechanical properties of bamboo fibre-based composites. *Journal of the Korean Wood Science and Technology* **46**(4): 355-361.
- Zhao Z, S Hayashi, W Xu, *et al.* 2018. A novel eco-friendly wood adhesive composed by sucrose and ammonium dihydrogen phosphate. *Journal of Polymers* **10**: 1– 14.
- Zhao Z, Umemura K. 2014. Investigation of a new natural particleboard adhesive composed of tannin and sucrose. *Journal of Wood Science* **60**(4): 269–277.
- Zhao Z, Umemura K. 2015. Investigation of a new natural particle board adhesive composed of tanin dan sucrose: 2. Effect of pressing temperature and time on board properties, and characterization of adhesive. *BioResources* **10**(2): 2444-2460.
- Zhou X, Du G. 2020. Applications of tannin resin adhesives in the wood industry. In Aires, A (ed.). *Tannins - Structural properties, biological properties and current knowledge*. London: IntechOpen.