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DAFTAR PUSTAKA

Abreu, H. S., Latorraca, J. V., Pereira, R. P., Monteiro, M. B. O., Abreu, F. A., & Amparado, K. F. (2009). A Supramolecular Proposal of Lignin Structure and Its Relation With The Wood Properties. *Anais da Academia Brasileira de Ciências*, *81*(1), 137–142.

Akca, M., Gur, M. Guder, A. (2025). Phytochemical Composition and Biological Activities of Bark Extracts From Seven Industrially Relevant Tree Species. *European Journal of Wood and Wood Product.* 83, 199. https://doi.org/10.1007/s00107-025-02349-2

Alamjuri, R. H., Salim, S., Tahir, P. M., Hua, L. S., Palle, I., Ismenyah, M., Ghani, A. (2025). Valorisation of *A. mangium* Bark for Sustainable Bio-Based Wood Preservatives: Tannin Extraction and Boron Complexation with Additives. *Journal of Asian Energy Studies*, *9*, 172–187.

Alias, N. N., Basherudin, N., Bakar, M. F. A., Syazwan, S. A., Muhammad, N., Ahmad, M. F., Abdullah, M. Z. (2018). De Novo Transcriptome Sequencing and Identification of Upregulated Genes Involved In Phenylpropanoid Pathway of *Acacia mangium* In Response To *Ceratocystis* Infection. *Malaysian Applied Biology*, *47*(5).

Alves Junior, F. T., Ferreira, R. L. C., Silva, J. A. A. D., Marangon, L. C., & Cespedes, G. H. G. (2013). Regeneração Natural De Uma Área De Caatinga No Sertão Pernambucano, Nordeste Do Brasil. *Cerne*, *19*, 229-235.

Arisandi, R., Lukmandaru, G., Sunarti, S., Nirsatmanto, A. (2025). Characterization of Wood Extractives and Antioxidant Activity in Acacia Hybrid (*Acacia mangium* × *Acacia auriculiformis*) Grown in Wonogiri, Indonesia. *Journal of the Korean Wood Science and Technology*, *53*(5), 480–500.

Azmir, J., Zaidul, I. S. M., Rahman, M. M., Sharif, K. M., Mohamed, A., Sahena, F., Omar, A. K. (2013). Techniques for Extraction of Bioactive Compounds From Plant Materials: A review. *Journal of food engineering*, *117*(4), 426–436.

Azwanida, N. N. (2015). A review on The Extraction Methods Use In Medicinal Plants, Principle, Strength and Limitation. *Medicinal & Aromatic Plants*, *4*(196), 2167–0412.

Back E. L., Allen L. H. (2000). *Pitch Control, Wood Resin and Reresination*. TAPPI Press. Atlanta.

Bates, D., Mächler, M., Bolker, B., Walker, S. (2015). Fitting Linear Mixed Effects Models Using Lme4. *Journal of Statistical Software*, 67, 1–48. https://doi.org/10.18637/jss.v067.i01

Benedict, J., Chandra, A., Orland, B., Gollnow, F., Mueller, C., Gaveau, D., Salim, A., Biddle, H., Husnayaen, H., Nagara, G., Manurung, T., Putra, S. P., Suavet, C., Yohar, S., Barr, C., Heilmayr, R. (2025). *SEI-PCS Indonesia Wood Pulp Supply Chain and Sustainability Metrics* (Version 3.2). https://doi.org/10.48650/RS65-VQ40

UNIVERSITAS
GADJAH MADA
Aktivitas Antirayap Ekstrak Kulit Kayu Akasia (Acacia mangium Willd.) Generasi Ketiga Di KHDTK Alas Kethu, Wonogiri, Jawa Tengah
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Brawner, J. T., Lee, S. S., Asif, M., Lane, F., Glen, M. (2015). *Ceratocystis* Acute Wilt and Dieback of *A. mangium* : An Emerging Threat To Plantations In South-East Asia. *Australasian Plant Pathology*, 44(2), 113–121. https://doi.org/10.1007/s13313-014-0326-z

Butcher, P. A., Decroocq, S., Gray, Y., Moran, G. F. (1998). Development, Inheritance and Cross-Species Amplification of Microsatellite Markers from *Acacia mangium*. *Theoretical and Applied Genetics*, 97(5–6), 1108–1114.

Cedergreen, N., Mandava, G., Lundqvist, J. (2026). How Normalization of Reporter Gene In Vitro Assays Affects The Results. *Integrated Environmental Assessment and Management*.

Chouvenc, T. (2020). Limited Survival Strategy in Starving Subterranean Termite Colonies. *Insectes Sociaux*, (1), 71–82.

Cohen, J. (1988). *Statistical Power Analysis for the Behavioral Sciences* (2nd ed.). Lawrence Erlbaum Associates.

Cotterill, P. P., Dean, C. A. (1990). *Successful Tree Breeding with Index Selection*. CSIRO.

Dai, X., Zhang, B., Wu, X., Jiang, L., Zou, Z., Wang, A., Yang, S. (2014). Identification of Tannin-Degrading Microorganisms In The Gut of Plateau Pikas (*Ochotona curzoniae*) and Root Voles (*Microtus oeconomus*). *Symbiosis*, *63*(1), 1–9.

De Lima, N. N., de Castro, V. R., Lopes, N. F., Nunes, Í. L., Andrade, F. A., Zanuncio, A. J. V., Carneiro, A. O. C., and Araujo, S. O. (2023). Tannin Extracts As A Preservative For Pine Thermo-Mechanically Densified Wood. *BioResources.* 18(1), 641–652.

De Medeiros Neto, P. N., Paes, J. B., Gonçalves, F. G., López, Y. M., Baraúna, E. E. P., da Silva Ribeiro, L. (2022). Relation of Physicochemical Characteristics on Biological Resistance of *Eucalyptus* Woods To Xylophagous Termites. *Journal of Building Engineering*, *52*, 104462.

Esparza-Mora, M. A., Mazumdar, T., Jiang, S., Radek, R., Thiem, J. N., Feng, L., McMahon, D. P. (2023). Defensive Behavior Is Linked To Altered Surface Chemistry Following Infection In A Termite Society. *Scientific Reports*, *13*(1), 20606.

Falconer, D. S., dan Mackay, T. F. (1996). *Introduction To Quantitative Genetics* (4th ed.). Longman.

Fengel, D., Wegener, G. (1989). *Wood: Chemistry, Ultrastructure, Reactions*. P 182–200. Berlin: Walter de Gruyter.

Ferrenberg, S., & Mitton, J. B. (2014). Smooth Bark Surfaces Can Defend Trees Against Insect Attack: Resurrecting A 'Slippery' Hypothesis. *Functional Ecology*, *28*(4), 837-845.

Fierro, V., Sánchez-Sánchez, A., Celzard, A. (2017). Tannins As Precursors of Supercapacitor Electrodes. In *Sustainable Energy Technologies* (pp. 201–228). CRC Press.

Franceschi, V. R., Krokene, P., Christiansen, E., Krekling, T. (2005). Anatomical and Chemical Defenses of Conifer Bark Against Bark Beetles and Other Pests. *New phytologist*, *167*(2), 353–376.

UNIVERSITAS
GADJAH MADA
Aktivitas Antirayap Ekstrak Kulit Kayu Akasia (Acacia mangium Willd.) Generasi Ketiga Di KHDTK Alas Kethu, Wonogiri, Jawa Tengah
Meysa Arbaa Saputri, Masendra, S.Hut., M.Agr., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Geib, Scott M., Timothy R. Filley, Patrick G. Hatcher, Kelli Hoover, John E. Carlson, Maria del Mar Jimenez-Gasco, Akiko Nakagawa-Izumi, Rachel L. Sleighter, and Ming Tien. Lignin Degradation in Wood-Feeding Insects. *Proceedings of the National Academy of Sciences* 105, no. 35 (2008): 12932-12937.

Harahap, F., Leduc, S., Anwar, S., Kraxner, F. (2020). Assessing the Sustainability of Land Transition for Palm Oil and Pulpwood Plantations in Indonesia. *Land*, *9*(11), 412. https://doi.org/10.3390/land9110412

Hardie, M., Akhmad, N., Mohammed, C., Mendham, D., Corkrey, R., Gafur, A., Siregar, S. (2018). Role of Site In The Mortality and Production of *Acacia mangium* Plantations In Indonesia. *Southern Forests: a Journal of Forest Science*, *80*(1), 37–50.

Hardiyanto, E. B., Inail, M. A., Nambiar, S., Mendham, D. S. (2024). Sustaining Plantation Forest Productivity In Sumatra Over Three Decades: from *Acacias* To *Eucalyptus*. *Forest Ecology and Management*, 553, 121613. DOI: 10.1016/j.foreco.2023.121613.

Hariprabowo, L. E., Raffiudin, R. I. K. A., Prawasti, T. S. (2006). Alimentary Canal Anatomy and Histology of The Worker Termite *Neotermes bosei*. *BIOTROPIA-BOGOR-*, *13*(2), 99.

Häsler Gunnarsdottir, S., Sommerauer, L., Schnabel, T., Oostingh, G. J., Schuster, A. (2023). Antioxidative and Antimicrobial Evaluation of Bark Extracts From Common European Trees In Light of Dermal Applications. *Antibiotics*, *12*(1), 130.

He, F., Peng, L., Long, W., Jiang, X., Zhang, W. (2022). Structure-Dependent Eco-Toxicity of Vegetable Tannin. *Processes*, *10*(5), 816.

Hegde M, Palanisamy K, Yi JS (2013). *A. mangium* Willd. - A Fast Growing Tree For Tropical Plantation. *Journal of Forest and Enviromental Science*. 29(1):1–14. https://doi.org/10.7747/JFS.2013.29.1.1

Herms, D. A., Mattson, W. J. (1992). The Dilemma of Plants: To Grow or Defend. *The Quarterly Review of Biology*, 67(3), 283–335. https://doi.org/10.1146/annurev.ento.51.110104.151146

Hoong, Y. B., Paridah, M. T., Luqman, C. A., Koh, M. P., Loh, Y. F. (2009). Fortification of Sulfited Tannin From The Bark of *Acacia mangium* With Phenol–Formaldehyde For Use As Plywood Adhesive. *Industrial Crops and Products*, *30*(3), 416-421.

Hu, X. P., Song, D., & Gao, X. (2011). Biological Changes In The Eastern Subterranean Termite, Reticulitermes Flavipes (Isoptera, *Rhinotermitidae*) and Its Protozoa Profile Following Starvation. *Insectes sociaux*, *58*(1), 39-45.

Isman M. B. (2006). Botanical Insecticides, Deterrents, and Repellents in Modern Agriculture and an Increasingly Regulated World. *Annual Review of Entomology* 51, pp. 45–66.

Ismayati, M., Nakagawa-Izumi, A., Ohi, H. (2018). Pemanfaatan Tanin Terkondensasi Kulit Kayu Sebagai Pengawet Alami Terhadap Rayap Bawah Tanah. *IOP Conference Series: Earth and Environmental Science* (Vol. 166, No. 1, hlm. 012016). IOP Publishing.

UNIVERSITAS
GADJAH MADA
Aktivitas Antirayap Ekstrak Kulit Kayu Akasia (Acacia mangium Willd.) Generasi Ketiga Di KHDTK Alas Kethu, Wonogiri, Jawa Tengah
Meysa Arbaa Saputri, Masendra, S.Hut., M.Agr., Ph.D.
Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Jolliffe, I. T. (2002). *Principal Component Analysis* (2nd ed.). Springer.

Kadir, R., & Hassan, B. (2020). Toxicity and Repellent Effects of Wood Extractives of Five Malaysian Wood Species On Asian Subterranean Termite *Coptotermes gestroi* Wasmann. *European Journal of Wood and Wood Products*, *78*(6), 1249–1262.

Kardiansyah, T., Sugesty, S. (2020). Pengaruh Alkali Aktif Terhadap Karakteristik Pulp Kraft Putih *Acacia mangium* dan *Eucalyptus pellita*. *Jurnal Selulosa*, *10*(1), 9–20.

Kirk, T. K., & Farrell, R. L. (1987). Enzymatic "Combustion": The Microbial Degradation of Lignin1, 2. *Ann. Rev. Microbiol*, *41*, 465–505.

Kirker, G. T., Blodgett, A. B., Arango, R. A., Lebow, P. K., Clausen, C. A. (2013). The Role of Extractives In Naturally Durable Wood Species. *International Biodeterioration & Biodegradation*, *82*, 53-58.

Krishna, K., F. M. Weesner. (1969). *Biology of Termites.* Volume I. 597 pp. Academic Press. New York Entomological Society.

Krisnawati H, Kallio M, Kanninen M. (2011) *Acacia mangium* Willd.: *Ecology, Silviculture and Productivity.* CIFOR, Bogor.

Kurinobu S. (2005). Overseas Forest Tree Breeding and Genetic Resources (4): Genetic Gains Achieved by The Two Generations of Breeding For *A. mangium* In Indonesia. *The Tropical Forestry* 64: 66–71.

Kurinobu S., Rimbawanto A. (2002) Genetic Improvement of Plantation Species In Indonesia. Summary of Project Achievement (JICA Forest Tree Improvement Phase II). *Bulletin of the Forest Tree Breeding Center*. 20: 9–18.

Lang, Y., Gao, N., Zang, Z., Meng, X., Lin, Y., Yang, S., Li, B. (2024). Classification and Antioxidant Assays of Polyphenols: A review. *Journal of Future Foods*, *4*(3), 193–204.

Lemmens R. H. M. J, Soerianegara I, Wong W. C (1995). Plant Resources of South-east Asia No5(2) Timber Trees: Minor Commercial Timbers. *Prosea Foundation,* Bogor, p655. ISBN: 979-8316-00-2

Lenz, P., Cloutier, A., MacKay, J., Beaulieu, J. (2010). Genetic Control of Wood Properties in *Picea glauca* An Analysis of Trends With Cambial Age. *Canadian Journal of Forest Research*, *40*(4), 703–715.

Lo Pinto, M., Agro, A. (2019). Effects of Starvation On Survival, Cannibalism, Body Mass, And Intestinal Protozoan Profile In The Subterranean Termite *Reticulitermes lucifugus*. *Insectes Sociaux*, *66*(4), 611.

Mahmoudi, K., Cheriti, A., Boulenouar, N., Bourmita, Y., El Hadj, M. D. O. (2021). Efficacy of Anti-Termite Extracts from Four Saharan Plants Against The Harvester Termite, *Anacanthotermes ochraceus. Pertanika Journal of Tropical Agricultural Science*, *44*(4), 865.

Masendra, M., Ngadianto, A., Arifriana, R., Dewi, G. K., Prasetyo, E., Nugraha, M. R., Lukmandaru, G. (2025). Termiticidal Activity and Lipophilic Extractive of Gamal (*Gliricidia sepium*) and Kaliandra (*Calliandra calothyrsus*) Leaves. *AIP Conference Proceedings* (Vol. 3172, No. 1, p. 020032). AIP Publishing LLC.

UNIVERSITAS
GADJAH MADA
Aktivitas Antirayap Ekstrak Kulit Kayu Akasia (Acacia mangium Willd.) Generasi Ketiga Di KHDTK Alas Kethu, Wonogiri, Jawa Tengah
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Masendra, Nezu, I., Hidayati, F., Nirsatmanto, A., Sunarti, S., Surip, Ishiguri, F. (2026). Among-Family Variations of Chemical and Kraft-Pulp Properties In The Heartwood of The Third-Generation *Acacia mangium* In Indonesia. *Wood Science and Technology*, *60*(1), 16.

Masendra, Nezu, I., Ishiguri, F., Hidayati, F., Nirsatmanto, A., Sunarti, S., Surip, Kartikaningtyas, D., Takashima, Y., Takahashi, Y., Ohshima, J., Yokota, S. (2023). Variations of Growth and Wood Traits In Standing Trees of The Third-Generation *A. mangium* families In Indonesia. *Silvae Genetica*, 72(1), 150–162. https://doi.org/10.2478/sg-2023-0016

Masendra, Nezu, I., Ishiguri, F., Hidayati, F., Nirsatmanto, A., Sunarti, S., Yokota, S. (2024). Among-Family Variations of Wood-Color Parameters, Decay Resistance, Total Phenol, and Total Flavanol Content In The Heartwood of The Third-Generation *A. mangium* In Indonesia. *Holzforschung*, *78*(11-12), 587–598.

Masendra, Purba, B. A. V., Lukmandaru, G. (2021). Anti-Termite Activity From The Lipophilic Fractions of *Eucalyptus pellita* F. Muell Heartwood. *Journal of the Indian Academy of Wood Science*, *18*(1), 52–58.

Mat Rasat, M. S. (2026). Natural Durability and Biodeterioration Resistance of Two Fast-Growing Tropical Tree Species. *Tropical Forestry*.

McKeand E., Beineke, F. (1980) Sublining For Half-Sib Breeding Populations of Forest Trees. *Silvae Genetica*. 29: 14–17.

McKeand, S. E., Li, B., Grissom, J. E., Isik, F., Jayawickrama, K. J. S. (2008). Genetic parameter estimates for growth traits from diallel tests of loblolly pine throughout the southeastern United States. *Silvae Genetica*, *57*(1-6), 101–110.

Murtagh, F., Legendre, P. (2014). Ward's Hierarchical Agglomerative Clustering Method: Which Algorithms Implement Ward's Criterion. *Journal of Classification*, 31(3), 274–295.

Namkoong, G. (1979). *Introduction to quantitative genetics in forestry*. U.S. Department of Agriculture, Forest Service.

Nascimento, M. D., Santana, A. L. B. D., Maranhão, C. A., Oliveira, L. S., Bieber, L. (2013). Phenolic Extractives and Natural Resistance of Wood. In *Biodegradation-Life of Science*. Intech Open.

Nasution, A., Glen, M., Beadle, C., Mohammed, C. (2019). Ceratocystis Wilt and Canker - A Disease That Compromises The Growing of Commercial *Acacia*-Based Plantations In The Tropics. *Australian Forestry*, *82*(sup1), 80–93.

Nicolescu, V. N., Dyderski, M., Cvjetković, B., Niemczyk, M. (2026). Species Selection Under Predicted Climate Change: Opportunities and Limitations. In *Guidelines for Climate Adaptive Forest Restoration and Reforestation Projects* (pp. 93-130). Elsevier.

Nirsatmanto A, Kurinobu S, Hardiyanto E, B. (2003). A Projected Increase In Stand Volume of Introduced Provenances of *Acacia mangium* In Seedling Seed Orchards In South Sumatra, Indonesia. *Journal of Forest Research* 8: 127 131. https://doi.org/10.1007/s103100300016

UNIVERSITAS
GADJAH MADA
Aktivitas Antirayap Ekstrak Kulit Kayu Akasia (Acacia mangium Willd.) Generasi Ketiga Di KHDTK Alas Kethu, Wonogiri, Jawa Tengah
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Nirsatmanto A, Leksono B, Kurinobu S, Shiraishi S (2004). Realized Genetic Gain Observed In Second-Generation Seedling Seed Orchards of *Acacia mangium* in South Kalimantan, Indonesia. *Journal of Forest Research 9*: 265–269. https://doi.org/10.1007/s10310-004-0081-3

Nirsatmanto A, Setyaji T, Sunarti S, Kartikaningtyas, D. (2015). Genetic Gain and Projected Increase In Stand Volume From Two Cycles Breeding Program of *Acacia mangium*. *Indonesian Journal of Forestry Research* 2: 71–79. https://doi.org/10.59465/ijfr.2015.2.2.71-79

Nirsatmanto A, Setyaji T, Surip (2013). Trend of Realized Genetic Gain Observed In Second-Generation Seedling Seed Orchards of *Acacia mangium* in South Kalimantan, Indonesia. *Indonesian Journal of Forestry Research* 10: 57–64. https://doi.org/10.20886/ijfr.2013.10.1.57-64

Nirsatmanto A., Kurinobu S. (2002). Trend of Within-Plot Selection Practiced In Two Seedling Seed Orchards of *A. mangium* In Indonesia. *Journal of Forest Research* 7: 49–52. DOI: 10.1007/BF02762598

Nirsatmanto, A., Sunarti, S., Putri, A. I., Haryjanto, L., Kartikawati, N. K., Herawan, T., Lestari, F., Pudjiono, S., Rimbawanto, A. (2023). Genetic Stability Observed In Third-Generation Progeny Trial of *A. mangium* : The Importance of Genotype by Environment Interaction Assessment In Advance Generation Breeding Strategy. *Forest Science and Technology*, 19(4), 285 295. https://doi.org/10.1080/21580103.2023.2264887

Ogunsina, O. O., Oladimeji, M. O., Faboro, E. O. (2009). Mortality and Anti-Feedants Evaluation Of Hexane And Ethanol Extracts Of *Lantana camara* (Verbenaceae), African Nutmeg (*Monodoro myristica* (Gaerth) Dunal) and Enuopiri (*Euphorbia laterifloria*, Schum and Thonner) Against Subterranean Termite Workers (*Macroterme michaelseni*). *Toxicological & Environmental Chemistry*, *91*(5), 971–977.

Paes, J. B., Brocco, V. F., Moulin, J. C. (2015). Effects of Extractives and Density on Natural Resistance of Woods to Termite. *Cerne*, 21(4), 569–578.

Paul, K. I., Larmour, J. S., Roxburgh, S. H. (2017). Measurements of Stem Diameter: Implications For Individual and Stand-Level Errors. *Environ Monit Assess* 189, 416. https://doi.org/10.1007/s10661-017-6109-x

Pellissier-Tanon, A., Ciais, P., Schwartz, M., Fayad, I., Xu, Y., Ritter, F., Leban, J. M. (2024). Combining Satellite Images With National Forest Inventory Measurements For Monitoring Post-Disturbance Forest Height Growth. *Frontiers in Remote Sensing*, *5*, 1432577.

Pietarinen, S., Willfor, S., Holmbom, B. (2004). Wood Resin 8 In *Acacia mangium* and *Acacia crassicarpa* Wood and Knots. *Appita: Technology, Innovation, Manufacturing, Environment*, *57*(2), 146–150.

Pletz, J., Sánchez-Bayo, F., Tennekes, H. A. (2016). Dose Response Analysis Indicating Time-Dependent Neurotoxicity Caused By Organic and Inorganic Mercury Implications For Toxic Effects In The Developing Brain. *Toxicology*, *347*, 1–5.

R Core Team (2026). R: A Language and Environment For Statistical Computing, Available at: https://www.R-project.org/ (Accessed 8 June 2026)

UNIVERSITAS
GADJAH MADA
Aktivitas Antirayap Ekstrak Kulit Kayu Akasia (Acacia mangium Willd.) Generasi Ketiga Di KHDTK Alas Kethu, Wonogiri, Jawa Tengah
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Raffiudin, R., Hariprabowo, L. E., Prawasti, T. S. (2011). Alimentary Canal Anatomy and Histology of The Worker Termite *Neotermes bosei*. *Biotropia*, 13(2).

Rehrl, J., Sepperer, T., Häsler Gunnarsdottir, S., Schnabel, T., Oostingh, G. J., Schuster, A. (2025). Antioxidant Potential of Tree Bark Extracts: Insight From The Multi-Level Output of The Antioxidant Power 1 assay. *Plos one*, *20*(7), e0328790.

Rosengaus, R. B., Moustakas, J. E., Calleri, D. V., Traniello, J. F. (2003). Nesting Ecology and Cuticular Microbial Loads In Dampwood (*Zootermopsis angusticollis*) and Drywood Termites (*Incisitermes minor, I. schwarzi, Cryptotermes cavifrons*). *Journal of Insect Science*, *3*(1), 31.

Roszaini, K., Wan-Rashidah, A. K., Mohamad-Fakri, I., dan Ang, L. H. (2019). Resistance Against Subterranean Termites of Selected Timber Species. *Journal of Tropical Forest Science*, 31(3), 362–370.

Rust, M. K., Su, N. Y. (2012). Managing Social Insects of Urban Importance. Journal: *Annual Review of Entomology.* Volume 2. https://doi.org/10.1146/annurev-ento-120710-100634

Saharjo, B. H. (2006). The Role of Industrial Forest Plantations in Supporting Pulp and Paper Industries: A Case Study in South Sumatra, Indonesia. In *Plantation Technology in Tropical Forest Science* (pp. 213–220). Tokyo: Springer Tokyo.

Saran, R. K., Ziegler, M., Kudlie, S., Harrison, D., Leva, D. M., Scherer, C., & Coffelt, M. A. (2014). Behavioral Effects and Tunneling Responses of Eastern Subterranean Termites (Isoptera: *Rhinotermitidae*) Exposed To Chlorantraniliprole-Treated Soils. *Journal of economic entomology*, *107*(5), 1878–1889.

Silva, W. D. M., Moraes, M. D., Pupin, S., Silva, J. D., Sebbenn, A. M., Pavan, B. E. (2016). Influence of The Size Plots In The Selection of Progenies of The *Eucalyptus camaldulensis* Dehnh.

Songsri, P., Jogloy, S., Kesmala, T., Vorasoot, N., Akkasaeng, C., Patanothai, A., Holbrook, C. C. (2008). Heritability of Drought Resistance Traits and Correlation of Drought Resistance and Agronomic Traits In Peanut. *Crop science*, *48*(6), 2245–2253.

Stenius, P., Gullichsen, J., dan Paulapuro, H. (2000). *Papermaking Science and Technology, Book 3. Forest Products Chemistry*. Fapet Oy.

Su, N. Y., Scheffrahn, R. H. (2000). *Termites As Pests of Buildings*. Chapter 20. Ft. Lauderdale Research and Education Center, University of Florida, 3205 College Ave. Ft. Lauderdale, FL 33314, U.S.A.

Syofuna, A., Banana, A. Y., dan Nakabonge, G. (2012). Efficiency of Natural Wood Extractives As Wood Preservatives Against Termite Attack. *Maderas. Ciencia y tecnología*, *14*(2), 155–163.

Tarigan, M., Roux, J., van Wyk, M., Tjahjono, B., Wingfield, M.J. (2011). A New Wilt and Die-Back Disease of *A. mangium* Associated With *Ceratocystis manginecans* and *C. Acaciivora* sp. Nov. In Indonesia. *South African Journal of Botany* 77(2): 292–304.

UNIVERSITAS
GADJAH MADA
Aktivitas Antirayap Ekstrak Kulit Kayu Akasia (Acacia mangium Willd.) Generasi Ketiga Di KHDTK Alas Kethu, Wonogiri, Jawa Tengah
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Universitas Gadjah Mada, 2026 | Diunduh dari http://etd.repository.ugm.ac.id/

Tarmadi, D., Yoshimura, T., Tobimatsu, Y., Yamamura, M., Umezawa, T. (2017). Effects of Lignins As Diet Components On The Physiological Activities Of A Lower Termite, *Coptotermes formosanus* Shiraki. *Journal of insect physiology*, *103*, 57–63.

Taylor, A. M., Gartner, B. L., Morrell, J. J., & Tsunoda, K. (2006). Effects of Heartwood Extractive Fractions of *Thuja plicata* and *Chamaecyparis nootkatensis* on Wood Degradation by Termites or Fungi. *Journal of Wood Science*, *52*(2), 147–153.

Teng, B., Zhang, T., Gong, Y., dan Chen, W. (2013). Molecular Weights and Tanning Properties of Tannin Fractions From The *A. mangium* bark. *African Journal of Agricultural Research*, *8*(47), 5996-6001.

Walker, J. C. (2006). *Primary Wood Processing: Principles and Practice*. Springer Science & Business Media.

Wang, Y., Wang, B., Lu, F., Tao, W., Li, J., Huang, F., Li, X. (2025). Variations In Bark Thickness of Common Tree Species In The Karst Seasonal Rainforest of Nonggang and Their Environmental Explanations. *Chinese Journal of Ecology*, *44*(5), 1436.

Westendarp, H. (2006). Effects of Tannins In Animal Nutrition. *DTW. Deutsche Tierarztliche Wochenschrift*, *113*(7), 264–268.

White, T. L., Adams, W. T., Neale, D. B. (2007). *Forest genetics*. CABI Publishing.

Yang, W., Ye, C., Wang, L., Nie, J., Liu, X., Zhang, T., Su, X. (2025). Binding Properties of Olfactory Proteins To Host Volatiles, Free Fatty Acids and Cuticular Hydrocarbons In The Termite *Reticulitermes aculabialis*. *Insect Biochemistry and Molecular Biology*, *176*, 104211.

Yingprasert, W., Cherdchim, B., dan Peaklin, S. (2023). Effects of *A. mangium* Bark Extracts on Dimensional Stability, Termite Resistance, and Fungal Decay Resistance of Rubberwood. *Biomass Conversion and Biorefinery*, *13*(9), 7623–7632.

Yokoyama H, Masendra, Nezu I, Hidayati F, Irawati D, Ngadianto A, Nirsatmanto A, Sunarti S, Surip, Kartikaningtyas D, Ohshima J, Yokota S, Ishiguri F. (2025). Evaluation of Differences In Radial Variations of Wood Properties Among Families For Producing The Next-Generation *Acacia mangium* In Indonesia. *Silvae Genetica* 74: 20–30. https://doi.org/10.2478/sg-2025-0003.

Zalsabila, A., Syafii, W., Priadi, T. (2024). Anti-Termite Activity of Tamanu Bark Extract (*Calophyllum inophyllum* L.). *Journal of the Korean Wood Science and Technology*, *52*(2), 134–144.

Zobel, B. J., Talbert, J. T. (1984). *Applied Forest Tree Improvement*. John Wiley and Sons.

Zohra, F., Sunarti, S., Listyanto, T. (2021). Ketahanan Alami Kayu Hibrid Akasia (*Acacia mangium* × *Acacia auriculiformis*) Terhadap Serangan Rayap Kayu Kering (*Cryptotermes cynocephalus* Light.). *Jurnal Penelitian Sosial dan Ekonomi Kehutanan*, *15*(2), 57-66.