

DAFTAR PUSTAKA

- Achmad, B., Purwanto, R. H., Sabarnuridin, s., & dan Sumardi, (2017). Pola Tanam dan Pendapatan Petani Hutan Rakyat di Region Atas Kabupaten Ciamis. *Jurnal kawistara*, 6(3), 225-324.
- Adnan, M., Islam, W., Gang, L., & Chen, H. Y. (2022). Advanced research tools for fungal diversity and its impact on forest ecosystem. *Environmental Science and Pollution Research*, 29(30), 45044-45062.
- Alrasyid, H. 1973. Beberapa Keterangan Tentang *Albizia Falcataria* (L). Fosberg. Lembaga Penelitian Hutan : Bogor.
- Aprianis Y. 2011. Produksi dan laju dekomposisi serasah *Acacia crassicarpa* A. Cunn. di PT Arara Abadi. *Tekno Hutan Tanaman* 4(1): 41-47.
- Awang, S., Wahyu, A., Barriatul, H., Wahyu, T.W. dan Agus, A. 2002. Hutan Rakyat sosial ekonomi dan pemasaran. BPFE-Yogyakarta. Yogyakarta.
- Baldrian, P. (2017). "Forest microbiome: diversity, complexity and dynamics." *FEMS Microbiology Reviews*, 41(2), 109-130.
- Bapperida DIY. (2025). *Data dasar: Iklim (suhu dan kelembaban udara) Provinsi Daerah Istimewa Yogyakarta*. Badan Perencanaan Pembangunan Daerah, Penelitian, dan Pengembangan DIY.
- Bargali, Shukla K, Singh L, Ghosh L, Lakhera ML. 2015. Leaf litter decomposition and nutrient dynamics in four tree species of dry deciduous forest. *Tropical Ecology* 56(2): 191–200.
- Berg, B., & McLaugherty, C. (2008). *Plant Litter: Decomposition, Humus Formation, Carbon Sequestration*. Springer-Verlag, Berlin Heidelberg.
- Bhat, M. K. (2000). Cellulases and related enzymes in biotechnology. *Biotechnology Advances*, 18(5), 355–383.
- Carolyn, F., Weber., Donald, R., Zak., Donald, R., Zak., Bruce, A., Hungate., Robert, B., Jackson., Rytas, Vilgalys., R., David, Evans., Christopher, W., Schadt., J., Patrick, Megonigal., Cheryl, R., Kuske. (2011). 5. Responses of soil cellulolytic fungal communities to elevated atmospheric CO₂ are complex and variable across five ecosystems. *Environmental Microbiology*, doi: 10.1111/J.1462-2920.2011.02548.X
- Charomaini, M. and Suhaendi, H. 1997. *Genetic variation of Paraserianthes falcataria seed sources in Indonesia and its potential in tree breeding programs*. In: Zabala, N. (ed.), *International workshop on Albizia and Paraserianthes species*, 151–156. Proceedings of a workshop held November 13–19, 1994, Bislig, Surigao del Sur, Philippines. Forest, Farm, and Community Tree Research Reports (Special Issue). Winrock International, Morrilton, Arkansas, USA.

- Crockatt, M. E. (2012). Are there edge effects on forest fungi and if so do they matter?. *Fungal Biology Reviews*, 26(2-3), 94-101.
- Cruz-Paredes, C., Tájmél, D., & Rousk, J. (2023). Variation in temperature dependences across Europe reveals the climate sensitivity of soil microbial decomposers. *Applied and Environmental Microbiology*, 89(5), e02090-22.
- Dashtban, M., Schraft, H., Syed, T. A., & Qin, W. (2010). Fungal biodegradation and enzymatic modification of lignocellulosic biomass. *International Journal of Biological Sciences*, 5(6), 578–595.
- Darusman D, Wijayanto N. 2007. Aspek Ekonomi Hutan Rakyat (skim pendanaan) [Makalah]. Studium General dalam Pekan Hutan Rakyat II di Balai Penelitian Kehutanan Ciamis, 30 Oktober 2007.
- Daubenmire, 1974. *Plant and Environmental 3rd*. Wiley International Edition. New York.
- Eilers, K. G., Debenport, S., Anderson, S., & Fierer, N. (2012). *Digging deeper to find unique microbial communities: The strong effect of depth on the structure of bacterial and archaeal communities in soil*. *Soil Biology and Biochemistry*, 50, 58–65. <https://doi.org/10.1016/j.soilbio.2012.03.011>
- Ethika, D., Purwanto, R.H., Senawi., dan Masyhuri, 2014. Peranan Petani Terhadap Strategi Pembangunan Hutan Rakyat di Bagian Hulu Sub DAS Logawa di Kabupaten Banyumas Jawa Tengah. *Jurnal Manusia dan Lingkungan*, 21(3):377-385.
- Fajri, M., & Garsetiasih, R. (2019). Komposisi jenis vegetasi lahan pasca tambang Galian C di Khdtk Labanan, Kabupaten Berau. *Jurnal Penelitian Sosial dan Ekonomi Kehutanan*, 16(2), 101-118.
- Fierer, N., Schimel, J. P., & Holden, P. A. (2003). *Influence of drying–rewetting frequency on soil bacterial community structure*. *Microbial Ecology*, 45(1), 63–71. <https://doi.org/10.1007/s00248-002-1007-2>
- Frey, S. D., dkk., (2003). "Microbial biomass, functional gene diversity, and soil organic matter stabilization across a gradient of silvicultural disturbance." *Soil Biology and Biochemistry*, 35(7), 1083-1095.
- Gandjar, I dan Syamsuridzal, W. 2006. *Mikologi Dasar dan Terapan*. Jakarta: Yayasan Obor Indonesia.
- Gartner, T. B., & Cardon, Z. G. (2004). Decomposition dynamics in mixed-species leaf litter. *Oikos*, 104(2), 230-246.
- Gao, X., Li, C., Cai, Y., et al. (2021). *Influence of Scale Effect of Canopy Projection on Understory Microclimate in Three Subtropical Broad-Leaved Forests*. *Remote Sensing*, 13, 3786.
- Gustiani, S. A. (2012). Produksi, Proses dekomposisi dan mineralisasi seresah pada Hutan Rakyat Nglanggeran Kidul Kabupaten Gunung Kidul DI Yogyakarta

[Production, decomposition process and leaf litter mineralization at Hutan Rakyat Ngalanggeran Kidul Gunung Kidul Regency DI Yogyakarta]. *Master degree thesis, Universitas Gadjah Mada.*

- Hairiah, K., Sitompul, S. M., van Noordwijk, M., & Palm, C. A. 2000. *Biomass Management for Soil Organic Matter*. ICRAF SEA.
- Handayani, L., & Rahayu, S. (2021). Pengaruh tegakan terhadap kualitas seresah pada hutan tanaman industri. *Jurnal Ekologi Tropika*, 18(2), 112-118.
- Hardjanto, R., Sudarmoko, A., & Rahman, M. (2021). "Agroforestri untuk Pengelolaan Hutan Rakyat Berkelanjutan." *Jurnal Agroforestri Indonesia*, 3(2), 45-56.
- Heyne, K. 1987. *Tumbuhan Berguna III*. Badan Penelitian dan Pengembangan Kehutanan Penerbit Yayasan Sarana Wana Jaya : Jakarta.
- Hidayat, J. 2002. *Informasi Singkat Benih Paraserianthes falcataria (L.) Nielsen No.23*. Direktorat Perbenihan Tanaman Hutan. Bandung.
- Insam, H., & Domsch, K. H. (1988). *Relationship between soil organic carbon and microbial biomass on chronosequences of reclamation sites*. *Microbial Ecology*, 15(2), 177–188. <https://doi.org/10.1007/BF02011711>
- Insam, H., & Goberna, M. (2004). *Soil Microorganisms and Climate Change*.
- Irawan, Bambang. 2008. Uji Aktivitas Enzim Selulase dan Lipase Pada Mikrofungi Selama Proses Dekomposisi Limbah Cair Kelapa Sawit dengan Pengujian Kultur Murni. Jurusan Biologi, Fakultas Matematika dan Ilmu Pengetahuan Alam, Universitas Lampung (UNILA). Lampung. *Jurnal Penelitian*.
- Jutono, J. Soedarsono, S. Hartadi, S. Kabirun, Suhadi, dan Soesanto, 1980. *Pedoman Praktikum Mikrobiologi Umum untuk Perguruan Tinggi Departemen Mikrobiologi Fakultas Pertanian UGM*. Yogyakarta.
- Kałużka, I., & Jagodziński, A. M. (2013). Ectomycorrhizal fungi and carbon dynamics in forest ecosystems.
- Kaskoyo, H., Mohammed, A. J., & Inoue, M. (2014). Present State of Community Forestry Program in a Protection Forest and its Challenges: Case Study in Lampung Province, Indonesia. *Journal of Forest Science*, 30(1), 15-29.
- Korniłowicz-Kowalska, T., Iglík, H., & Wojdyło, B. (2003). Correlation between the abundance of cellulolytic fungi and selected soil properties. *Acta Mycologica*, 38(1-2), 161-172.
- Krisdayani, P. M., Proborini, M. W., & Kriswiyanti, E. (2020). Pengaruh kombinasi pupuk hayati endomikoriza, *Trichoderma* spp., dan pupuk kompos terhadap pertumbuhan bibit sengon (*Paraserianthes falcataria (L.) Nielsen*). *Jurnal Sylva Lestari*, 8(3), 400-410.

- Kumar, R., Singh, S., & Singh, O. V. (2008). Bioconversion of lignocellulosic biomass: Biochemical and molecular perspectives. *Journal of Industrial Microbiology and Biotechnology*, 35(5), 377–391.
- Kusumedi Priyo, Jariyah Ainun Nur. 2010. Analisis finansial pengelolaan agroforestri dengan pola sengon kapulaga di Desa Trip, Kecamatan Wandaslintang, Kabupaten Wonosobo. *Jurnal Penelitian Sosial dan Ekonomi Kehutanan* 7 (2): 93-100.
- Kuswandi, T., & Suryadi, A. (2020). "Pola Agroforestri dan Kontribusinya terhadap Perekonomian Petani." *Jurnal Kehutanan Tropis*, 28(3), 123-135.
- Lal, R. (2004). "Soil carbon sequestration impacts on global climate change and food security." *Science*, 304(5677), 1623-1627. doi:10.1126/science.1137060.
- Lodge, D. J. (1997). "Factors related to diversity of decomposer fungi in tropical forests." *Biodiversity and Conservation*, 6(5), 681-688.
- Martawijaya, A. Kartasujana, I., Mandang, Y.I., Prawira, S.A. dan Kadir, K. 1989. *Atlas Kayu Indonesia Jilid II*. Pusat Penelitian dan Pengembangan Hasil Hutan, Bogor, Indonesia.
- Melati, R. H., Wardah, W., & Yusran, Y. (2021). Diversity of Soil Macrofauna in the Early Decomposition Process of Litter from Secondary Forests and Candlenut Stands on the Slopes of the Gawalise Mountains, Central Sulawesi. *Mitra Sains*, 9(1), 34-44.
- Moorhead, D. L., and R. L. Sinsabaugh. 2006. A theoretical model of litter decay and microbial interaction. *Ecol. Monogr.* 76:151–174.
- Nair, P. K. R., dkk., (2009). "Agroforestry: The Future of Global Land Use." *International Journal of Agricultural Sustainability*, 7(4), 201-217. doi:10.3763/ijas.2009.0406.
- NAS (National Academy of Science), 1983. *Fuel wood crops. Shrub and tree species for energy production*, Vol 2. National Academy Press. Washington DC.
- Nugroho, A., Subekti, R., & Santoso, B. (2020). Dekomposisi seresah pada berbagai tegakan hutan di Indonesia. *Jurnal Kehutanan Tropika*, 8(1), 55-62.
- Oktalina, S. N., Suryanto, P., & Hartono, S. (2015). Strategi petani hutan rakyat dan kontribusinya terhadap penghidupan di kabupaten Gunungkidul. *Jurnal Kawistara*, 5(3).
- Palm, C.A. dan Sanchez, P.A. 1991. Nitrogen release from the leaves of some tropical legumes as affected by their lignin and polyphenolic contents. *Soil Biology and Biochemistry* 23, 83-88.

- Prawirowardoyo, S., A. Rosmarkam, D. Shiddieq, M. S. Hidayat, dan M. Ma'shum. 1987. *Prosedur Analisa Kimia Tanah*. Laboratorium Ilmu Tanah Pertanian Fakultas Pertanian Universitas Gadjah Mada. Yogyakarta.
- Purwandari, P., Santoso, A., & Dewi, R. (2012). Analysis of lignin content in leaf litter of different species in tropical forests. *Journal of Forest Ecology and Management*, 178(3), 125-131.
- Raghuwanshi, S., Mishra, V., & Sharma, R. (2014). Bioprospecting of cellulolytic fungi for their potential to decompose agricultural residues. *Journal of Applied Biology and Biotechnology*, 2(4), 8–12.
- Rahardjo, B.T., Suryaningsih, E., & Setyawati, M. (2014). Fiber composition and potential decomposition of *Falcataria moluccana* leaf litter. *Indonesian Journal of Forestry Research*, 1(2), 112-118.
- Rahmawati, D., Khumaida, N., & Siregar, U. J. (2019). Morphological and phytochemical characterization of susceptible and resistant sengon (*Falcataria moluccana*) tree to gall rust disease. *Biodiversitas Journal of Biological Diversity*, 20(3), 907-913.
- Richter, H. G. dan M. J. Dallwitz., 2000. *Commercial timbers: descriptions, illustrations, identification, and information retrieval*. In English, French, German, and Spanish. Diakses dari <http://biodiversity.uno.edu/delta/>, tanggal 20 November 2009.
- Sabastian, G.E. 2012. *Enhancing the Sustainability of Smallholder Timber Production Systems in the Gunungkidul Region, Indonesia*. The Australian National University.
- Sánchez, C. (2009). Lignocellulosic residues: Biodegradation and bioconversion by fungi. *Biotechnology Advances*, 27(2), 185–194.
- Sankaran, K.V., M. Balasundaran, T.P. Thomas, dan M.P. Sujatha. 1993. Litter Dynamic, Microbial Association and Soil Studies in *Acacia auriculiformis* Plantation in Kerala. Kerala Forest Research Institute. India.
- Sardjono MA, Djogo T, Arifin HS, Wijayanto N. 2003. Klasifikasi dan Pola Kombinasi Komponen Agroforestri. Bogor (ID): ICRAF.
- Seeley, Harry W. dan Paul J. Van D., 1972. *Microbes in Action A Laboratory Manual of Mikrobiology*. 2nd ed. W. H. Freeman and Company San Francisco.
- Setiadi, D.S. dan T. Samingan. 1978. Allelopathic Effect of *Acacia auriculiformis* A.Cunn. at Maribaja (Djasinga). *Timber Indonesia*, 2:279-288.
- Singhania, R. R., Sukumaran, R. K., Patel, A. K., Larroche, C., & Pandey, A. (2010). Advancement and comparative profiles in the production technologies using solid-state and submerged fermentation for microbial cellulases. *Enzyme and Microbial Technology*, 46(7), 541–549.

- Singh, R., Shukla, A., Tiwari, S., & Srivastava, M. (2019). A review on delignification of lignocellulosic biomass for enhancement of ethanol production potential. *Renewable and Sustainable Energy Reviews*, 91, 664–676.
- Siregar, R.E., Nugroho, A., & Soemargono. (2016). Characterization of fiber properties in leaves of *Falcataria moluccana* for potential industrial use. *Journal of Tropical Forest Science*, 28(2), 145-153.
- Soerianegara, I. dan Lemmens, R.H.M.J. 1993. *Plant resources of South-East Asia 5(1): Timber trees: major commercial timbers*. Pudoc Scientific Publishers, Wageningen, Belanda.
- Sudomo, A., & Widiyanto, A. (2017). Produktifitas serasah sengon (*Paraserianthes falcataria*) dan sumbangannya bagi unsur kimia makro tanah. In *Prosiding National Seminar on Geography UMS*.
- Swift, M. J., Heal, O. W., & Anderson, J. M. (1979). *Decomposition in Terrestrial Ecosystems*. University of California Press.
- Taylor, B. R., Parkinson, D., & Parsons, W. F. J. (1989). "Nitrogen and lignin content as predictors of litter decay rates: a microcosm test." *Ecology*, 70(1), 97-104.
- Tripathi, B., Singh, M., & Pandey, R. (2016). Nutrient dynamics during litter decomposition in forest ecosystems: A review. *Forest Ecology and Management*, 384, 200-210.
- Untari, D. (2011). *Kelimpahan Jamur Selulolitik dan Bakteri Total Pada Beberapa Tegakan dan Kedalaman Tanah di Wanagama I*. Skripsi Sarjana. Fakultas Kehutanan, Universitas Gadjah Mada, Yogyakarta.
- Wagner WL, Herbst DR, Sohmer SH, 1999. *Manual of the Flowering Plants of Hawai'i*. Vols 1 and 2. Bishop Museum Special Publication 83. Honolulu, USA: University of Hawai'i and Bishop Museum Press.
- Warisno, Kres D. 2009. *Investasi sengon*. PT. Gramedia, Jakarta.
- Wei, Y., & Dai, Y. (2004). Ecological function of wood-inhabiting fungi in forest ecosystem. *Ying Yong Sheng tai xue bao= The Journal of Applied Ecology*, 15(10), 1935-1938.
- Widyastuti, S.M., Sumardi dan H.H. Nurjanto. 1998. Pelepasan Unsur Hara dalam Proses Dekomposisi Serasah sebagai Petunjuk Aktivitas Mikroorganisme di Bawah Tegakan Acacia mangium. *Buletin Kehutanan*, 35: 11-19.
- Wijayanto, H., Pranoto, A., & Setiawan, T. (2022). Dampak serasah pada siklus hara dan struktur tanah di bawah tegakan sengon. *Jurnal Ilmu Kehutanan Indonesia*, 16(3), 125-133.



Wijaya, A. (2011). Kelimpahan Jamur Selulolitik Pada Lahan Budidaya Rumput Gajah (*Pennisetum purpureum* Schumach.) Di Petak 17 Hutan Pendidikan Wanagama I Gunung Kidul DIY.