

REFERENCE

- Anoop E. V., Jijeesh C. M., Sindhumathi C. R. & Jayasree C. E. 2014. Wood physical, Anatomical and Mechanical properties of Big Leaf Mahogany (*Swietenia macrophylla* Roxb) a potential exotic for South India. *Research Journal of Agriculture and Forestry Sciences*, 2(8), pp. 7-13.
- Apriyani, F. 2010. Kemampuan biodelignifikasi jamur tiram putih (*Pleurotus ostreatus* (Jacq.) P. Kumm.) pada jenis kayu dan waktu inkubasi yang berbeda. *Skripsi*. Purwokerto: Fakultas Biologi.
- Asther, M., Cecile, C. & Georges, C. 1988. Control of lignin peroxidase production by *Phanerochaete chrysosporium* INA-12 by temperature shifting. *Applied and Environment Microbiology*, 54 (12), pp. 3194-3196.
- Atmosuseno, B. S. 1994. *Budidaya, Kegunaan dan Prospek Sengon*. Jakarta: Penebar Swadaya.
- Azhari, A., Falah, S., Nurjannah, L., Suryani., Bintang, M. 2014. Delignifikasi Batang Kayu Sengon oleh *Trametes versicolor*. *Current Biochemistry*, 1 (1), pp. 1-10.
- Belewu, M. A. 2006. Conversion of masonia tree sawdust and cotton plant by product into feed by white rot fungus (*Pleurotus sajor caju*). *African Journal of Biotechnology*, 5, pp. 503 – 504.
- Bilgrami, K. S & Verma, R. N. 1994. *Physiology of Fungi*. 2nd ed. Delhi: Vikas Publishing House PVT Ltd.
- Bonnen, A. M., Anton, L. H., Orth, A. B. 1994. Lignin - degrading enzymes of the commercial button mushroom, *Agaricus bisporus*. *Applied Environment Microbiology*, 60, pp. 960-965.
- Chalamcherla, V., Reddy, V. S. G. & Vinusha, B. 2015. Biobleaching of Unbleached Craft Pulp by a White-Rot Fungus *Pleurotus Ostreatus* through Solid State Fermentation: Optimization Studies. *3rd International Conference on Biological, Chemical & Environmental Sciences*, 22, pp.110-113.
- Chang, S. T. & Quimino, T. H. 1982. *Tropical Mushrooms Biological Nature and Cultivation Methods*. Hongkong: The Chinese University Press of Hong Kong.
- Chesson, A. 1981. Effects of sodium hydroxide on cereals straws in relation to enhanced degradation of structural polysaccharides by rumen microorganism. *Journal Science Food Agriculture*, 32, pp. 745-758.
- Daniel G. 2003. *Microview of wood under degradation by bacteria and fungi*. Wood deterioration and preservation. ACS Symposium series 845, Washington DC, USA

- Dayan, M. P. 1989. Mahogany A compilation of RISE Issues. *Ecosystem Research and Development Bureau*, 1 (1-10), pp. 64-74.
- Departemen Kehutanan. 2004. *Atlas Kayu Indonesia Jilid I*. Bogor : Pusat Penelitian Dan Pengembangan Teknologi Hasil Hutan.
- Departemen Pertanian. 1976. *Vademekum Kehutanan*. Jakarta.
- Eichlerová, I., Katia, R., Homolka, L., Jean, P. J. & František, N. 2000. Ligninolytic characteristics of *Pleurotus ostreatus* strain F6 and its monokaryotic protoplast derivative P19. *Can. Journal Microbiology*, 46, pp. 1153–1158.
- Ejechia, B.O., Obuekweb, C. O., Ogbimib, A. O. 1996. Microchemical studies of wood degradation by brown rot and white rot fungi in two tropical timbers. *International Biodeterioration & Biodegradation*, 38 (2), pp. 119-122.
- FAO (Food and Agriculture Organization). 2013. *Forest Product Definition*. Available <http://faostat.fao.org/>. 2 January 2018.
- Fazi, H. B. M. 2012. Biodelignification of Oil Palm Trunk-Optimization. *Thesis*. Malaysia: University Malaysia Pahang.
- Fitria R. A., Ermawar, W., Fatriasari, T., Fajriutami, Yanto D. H. Y., Falah, F., Hermiati, E. 2006. Biopulping Bambu Menggunakan Jamur Pelapuk Putih *Schizophyllum commune*. *Jurnal Ilmu dan Teknologi Hasil Hutan* 2(2):45-50.
- Fitria. 2008. Pengolahan biomassa berlignoselulosa secara enzimatik dalam pembuatan pulp: studi kepustakaan. *Jurnal Teknologi Pertanian*, 9 (2): 69-74.
- Hadikusumo, S. A. 1989. *Hasil hutan dan Ilmu Kayu*. Yogyakarta: Gadjah Mada University Press.
- Hanum, K., A. & Nengah., D., K., 2013. Efektifitas Pertumbuhan Jamur Tiram Putih (*Pleurotus ostreatus*) dengan Variasi Media Kayu Sengon (*Paraserianthes falcataria*) dan Sabut Kelapa (*Cocos nucifera*). *Jurnal Sains Dan Seni Pomits*, 2 (2), pp. 2337-3520.
- Hartati NS, E. Sudarmonowati, W. Fatriasari, E.Hermiati, W. Dwianto, R. Kaida, K. Baba, and T. Hayashi. 2009. Wood characteristic of superior sengon collection and prospect of wood properties improvement through genetic engineering. *The first International Symposium of Indonesian Wood Research Society*, Bogor, 2nd - 3rd.
- Hattaka, A. I. 1983. Pretreatment of wheat straw by white-rot fungi for enzymic saccharification of cellulose. *Appl. Microb. Biotechnol*, 18, 350–357.
- Herliyana, E. N. 2007. *Potensi Lignolitik Jamur Pelapuk Kayu Kelompok Pleurotus*. *Disertation*. Bogor: Sekolah Pascasarjana IPB.

- Herliyana, E. N., Dodi, N., Achmad., Lisda, I., Sudirman & Arief, B. W. 2008. Biodegradation of Sengon-wood Sawdust Substrate by *Pleurotus* Group Fungi from Bogor. *Journal Tropical Wood Science and Technology*, 6 (2), pp. 75-84.
- Hossain, S. M., Anantharaman, N. 2006. Activity enhancement of ligninolytic enzymes of *Trametes versicolor* with bagasse powder. *African Journal Biotechnology*, 5(1), pp. 189-194.
- Howard, R. T. Abotsi, E., Jansen, V. R. E. L., Howard S. 2003. Lignosellulose biotechnology : issue of bioconversion and enzyme production. *African Journal Biotechnology*, 2, pp. 602-619.
- Irianto, R. S. 2006. Incidence and Spatial Analysis of Root Rot of *Acacia mangium* in Indonesia. *Journal of Tropical Forest Science*, 18 (3), pp. 157-165.
- Islam, M. Z., Rahman, M. H., Hafiz, F. 2009. Cultivation of oyster mushroom (*Pleurotus flabellatus*) on different substrate. *International Journal of Sustainable Crop Production*, 4, pp. 45-48.
- Jonathan, S. G., I. O. Fasidi, A. O. Ajayi, and Adegeye. O. 2008. Biodegradation of Nigerian wood wastes by *Pleurotus tuber-regium* (Fries) Singer. *Bioresource Technology*, 99: 807-811.
- Kaur, A., Dhillon, R., Aggarwal, N., Kahlon, R.S., 1998. Solid state fermentation of lignocelulosics by *Pleurotus ostreatus*. In: Anil Prakash. (Eds.). *Fungi in Biotechnology*. CBS Publishers, New Delhi. pp. 187 – 191.
- Kirk, T. K. and Chang, H. M. 1990. *Biotechnology in pulp and Paper Manufactory*. USA: Butterwort-Heinemmen.
- Kusumaningrum, I. K., Zakia, N. & Nilasari, C. 2017. Pengaruh Derajat Keasaman (pH) Media Tanam dan Waktu Panen pada Fortifikasi Selenium Jamur Tiram Putih (*Pleurotus ostreatus*). *Journal Cis-Trans (JC-T)*, 1 (1), pp. 30-34.
- Leshine, S. B. 1995. Cellulose degradation in anaerobic environments. *Annual Review Microbiology*, 49, pp. 399-426.
- Liew, C. Y., Husaini, A., Hussain, H., Muid, S., Liew, K. C. & Rosian, H. A. 2011. Lignin biodegradation and ligninolytic enzyme studies during biopulping of *Acacia mangium* wood chips by tropical white rot fungi. *World Journal Microbiology Biotechnology*, 27, pp. 1457-1468.
- López, A. M. Q. & Santos, A. L. d. S. S. e. E. C. L. d. 2017. The Fungal Ability for Biobleaching/Biopulping/Bioremediation of Lignin-Like Compounds of Agro-Industrial Raw Material. *Quim Nova*, 40 (8), pp. 916-931.
- Maiti, R., Rodriguez, H. G., Para, A. C., Kumari, C. H. A. and Sarkar NC. 2016. A Comparative Wood Anatomy of 15 Woody Species in North-eastern Mexico. *Forest research*, 5 (1), pp. 1-8.

- Masahisa W, Ritsuko H, Ung-Jin K, Sono S. 2010. X-ray Diffraction Study on The Thermal Expansion Behavior of Cellulose Ib and its High-Temperature Phase. *Polymer Degradation and Stability*, 95(8), pp. 1330-1334.
- Mayhew, J.E. & Newton, A.C. 1998 The silviculture of *S. macrophylla*. CABI Publishing, New York.
- Mishra, P.K. & Wimmer, R. 2016. Aerosol assisted self-assembly as a route to synthesize solid and hollow spherical lignin colloids and its utilization in layer by layer deposition. *Ultrason Sonochem*, 35, pp. 40–50.
- Mumpuni, A., Ekowati, N., Purnomowati., Purwanti, E. S. 2017. Growth and Protein Content Establishment of *Pleurotus ostreatus* on Liquid and Solid Medium. *Journal of Biology & Biology Education*, 9 (3), pp. 572-578.
- Nakamura, Y., Mtui, G. S., Tatsuro, S. & Masaaki, K. 1999. Lignin - degrading enzyme production by *Bjerkandera adusta* immobilized on Polyurethane Foam. *Journal of Bioscience and Bioengineering*, 88 (1), pp. 41-47.
- Nallapeta, S., Nigam, V. K., Survajahala, P. & Mohan, K. 2012. Screening and selection of White-rot Fungi for Biological Delignification of Agricultural Residues. *International Journal of Advanced Biotechnology and Research*, 3 (4), pp. 790 -796.
- Nandika, D., Darmawan, W., & Arinana. 2015. Quality Improvement of Sengon Wood through Compregnation Process. *Journal of Technology Industrial and Agriculture*, 25 (2), pp. 125-135.
- Narkhede, K. P. & Vidhale, N. N. 2005. Biopulping studies using an effluent isolate *Curvularia lunata* LW6. *Journal Biotechnology*, 5, pp. 385-388.
- Nashiro, R. 2012. Delignifikasi Bagase Menggunakan Isolat *Pleurotus* spp. yang ditumbuhkan pada media yang berbeda. *Skripsi*. Universitas Sebelas Maret, Surakarta.
- Nurul, H., Lilik, S. & Ellis, N., 2013. Studi Pertumbuhan dan Hasil Produksi Jamur Tiram Putih (*Pleurotus ostreatus*) Pada Media Tumbuh Jerami Padi dan Serbuk Gergaji. *Jurnal Produksi Tanaman*, 1 (1), pp. 47-53.
- Panji, T., Tahang., Yusuf & Goenadi. 1996. Optimasi pH, Kadar air, dan Suhu pada Bidelignifikasi in Vitro Tandan Kosong Kelapa Sawit. *Journal Biotechnology*, pp. 80-91.
- Patrick, F., Godliving, M., Anthony, M. M. & Amelia. 2011. Optimization of laccase and manganese peroxidase production in submerged culture of *Pleurotus sajor-caju*. *African Journal of Biotechnology*, 10 (50), pp. 10166-10177.
- Pirralho, M., Flores, D., Sousa, V. B., Quilhó, T., Knapic, S., & Pereira, H. 2014. Evaluation on paper making potential of nine Eucalyptus species based on

- wood anatomical features. *Industrial Crops and Products*, 54, pp. 327–334.
- Priadi, D. & Hartati, N. R. 2014. Karakterisasi Sengon (*Paraserianthes falcataria* L. Nielsen) Unggul Berdasarkan Morfologi Pohon dan Kadar Lignin. *Jaringan Kerjasama Kimia Indonesia*, pp. 341 – 350.
- Pujirahayu, N. & Marsoem, S.N., 2006. Efisiensi Pemasakan Bio-kraft Pulp Kayu Sengon dengan Jamur *Phanerochaete chrysosporium*. *Jurnal Agrosains*, 19(2), pp. 201-206.
- Purnomo, H. & Adiono. 1989. *Ilmu Pangan*. Jakarta: UI Press.
- Reid, I.D., 1985. Biological delignification of aspen wood by solid state fermentation with white-rot fungi *Merulius tremellosus*. *Appl. Env. Microbiol.* 50, 133-139.
- Sein, C.C. and Mitlöhner, R. 2011. *Acacia mangium* Willd: ecology and silviculture. CIFOR, Bogor, Indonesia.
- Singh, P., Sulaiman, O., Hashim, R., Peng, L.C. and Singh, R. P. 2012. Biodegradation Study Of *Pycnoporus sanguineus* and Its Effects on Structural and Chemical Features on Oil Palm Biomass Chips. *Lignocellulose Peer-Reviewed Article*, 1(3), pp. 210-227.
- Sjostrom, E. 1995. *Kimia Kayu : Dasar – Dasar dan Penggunaan*. Yogyakarta, Gajah Mada University Press.
- Stamets, P. 2005. *Growing Gourmet and Medicinal Mushrooms*. Third edition. Berkeley, Tronoto: Ten Speed Press.
- Steel, R. E. D. & Torrie, J. H. 1991. *Prinsip dan Prosedur Statistika Suatu Pendekatan Biometrik*. Jakarta: Gramedia Pustaka Utama.
- Sugesty, S., Kardiansyah, T., & Pratiwi, W. 2015. Potensi *Acacia crassiparva* sebagai bahan baku pulp kertas untuk hutan tanaman industri. *Jurnal Selulosa*, 5(1), pp. 21 – 32.
- Sumarsih, S. 2010. *Bibit Jamur Tiram*. Jakarta: Penebar Swadaya.
- Suriawiria, H. U. 2002. *Budidaya Jamur Tiram*. Yogyakarta: Kanisius.
- Suriawiria, U. 1986. *Pengantar Untuk Mengenal dan Menanam Jamur*. Angkasa: Bandung.
- Suryani, T & Carolina, H. 2017. Pertumbuhan dan Hasil Jamur Tiram Putih pada Beberapa Bahan Media Pembibitan. *Bioeksperimen*, 3(1), pp. 73-86.
- Taman Alex, Budi Winarni, Irawan Wijaya Kusuma, Enos Tangke Arung & Edy Budiarmo. 2017. Short Communication: The clay nanoparticle impregnation for increasing the strength and quality of sengon

(*Paraserianthes falcataria*) and white meranti (*Shorea bracteolata*) timber. *Nusantara Bioscience*. Vol. 9, No. 1, pp. 107-110.

Ubicek, C.P. 2012. *Fungi and Lignocellulosic Biomass*. USA: John Wiley & Sons: Ames, IA.

Wiardani, I. 2010. *Budi Daya Jamur Konsumsi Menangguk Untung dari Budi Daya Jamur Tiram dan Kuping*. Yogyakarta: Lili Publisher.

Willey, J. & Sons. 2006. *Mycoremediation: fungal bioremediation*. Canada USA: Simultaneously.

Wulandari, A. P., Triyana, T., & Andayaningsih, P. 2013. Delignification of Rice Straw with Ligninase from Novel *Penicillium* sp. strain apw-tt2 for Biopulping. *International Journal of Bioscience, Biochemistry and Bioinformatics*, 3(1), pp. 43-46.

Yao, S., Wu, G., Xing, M., Zhou., S., & Pu, J. 2010. Determination of lignin content in *Acacia* spp. Using near-infrared reflectance spectroscopy. *BioResources*, 5(2), pp. 556-562.

Yao, S., Wu, G., Xing, M., Zhou., S., & Pu, J. 2010. Determination of *versicolor* for pitch control: Influence on extractive contents, pulping process parameters, paper quality and effluent toxicity. *Bioresource Technology*, 98(2), pp. 302-311.

Zadrazil, F. 1984. Microbial conversion of lignocellulose into feed. In: Sundstol, F. and Own, E.L. (Eds.). *Straw and other fibrous by-products as feed*. Elsevier, Amsterdam. pp. 276-279.

