

DAFTAR PUSTAKA

- Amarasekara, A. S. 2013. *Handbook of Cellulosic Ethanol*: John Wiley & Sons.
- Ando, J. 1988. Analisis Kimia 6 Jenis Kayu Jawa Barat. *Jurnal Penelitian Hasil Hutan*, 5(2), 50-51.
- Antczak, A., Marchwicka, M., Szadkowski, J., Drp, ek, M., Gawron, J., Radomski, A., dan Zawadzki, J. 2018. Sugars Yield Obtained after Acid and Enzymatic Hydrolysis of Fast-growing Poplar Wood Species. *Bioresources*, 13, 8629-8645.
- Atapattu, A. J., Pushpakumara, D., Rupasinghe, M., Senarathne, S., dan Raveendra, T. 2017. Potential of *Gliricidia sepium* as a fuelwood species for sustainable energy generation in Sri Lanka. *Agricultural Research Journal*, 54, 34.
- Campbell, A. G., Kim, W.-J., dan Koch, P. J. W. 2007. Chemical variation in lodgepole pine with sapwood/heartwood, stem height, and variety. *Wood and fiber science*, 22(1), 22-30.
- Daud, M., Safii, W., dan Syamsu, K. 2012. Biokonversi bahan berlignoselulosa menjadi bioetanol menggunakan *aspergillus niger* dan *saccharomyces cerevisiae*. *Jurnal Perennial*, 8(2), 43-51.
- Dharmawan, A., Sudaryanti, D., Prameswari, A., Amalia, R., dan Dermawan, A. 2018. *Pengembangan bioenergi di Indonesia: Peluang dan tantangan kebijakan industri biodiesel* (Vol. 242): CIFOR.
- Duguma, B. 1994. *Growth of nitrogen fixing trees on moderate to very acid soils of the humid lowlands of southern Cameroon*. Paper presented at the Evans, DO; Szott, Lawrence T.(eds.). Nitrogen fixing trees for acid soils: Proceedings of a workshop, July 3-8, 1994, Turrialba, Costa Rica.
- Fengel, D., dan Wegener, G. 1995. *Kayu: Kimia, Ultrastruktur, Reaksi-reaksi*. Yogyakarta: Gadjah Mada University Press.
- Gülsoy, S. K., Pekgözlü, A. K., dan Aktaş, A. C. 2015. Utilization of the pomegranate tree (*Punica granatum* L.) in the paper industry. *Turkish Journal of Agriculture and Forestry*, 39(2), 295-299.

- Hermiati, E., Mangunwidjaja, D., Sunarti, T. C., Suparno, O., dan Prasetya, B. 2017. Pemanfaatan biomassa lignoselulosa ampas tebu untuk produksi bioetanol. *Jurnal Penelitian dan Pengembangan Pertanian*, 29(4), 121-130.
- Irawati, D. 2017. Hidrolisis Media Sisa Budidaya Jamur Kuping Menggunakan Tiga Jenis Enzim Selulase. *Jurnal Ilmu Kehutanan*, 11(1), 52-62.
- Irawati, D., Hayashi, C., Takashima, Y., Wedatama, S., Ishiguri, F., Iizuka, K., Yoshizawa, N., dan Yokota, S. 2012a. Cultivation of the edible mushroom *Auricularia polytricha* using sawdustbased substrate made of three Indonesian commercial plantation species, *Falcataria moluccana*, *Shorea* sp., and *Tectona grandis*. *Micrologia Aplicada International*, 24(2), 33-41.
- Irawati, D., Yokota, S., Niwa, T., Takashima, Y., Ueda, C., Ishiguri, F., Iizuka, K., dan Yoshizawa, N. 2012b. Enzymatic saccharification of spent wood-meal media made of 5 different tree species after cultivation of edible mushroom *Auricularia polytricha*. *Journal of Wood Science*, 58(2), 180-183.
- Jahan, M. S., dan Mun, S. P. 2005. Effect of tree age on the cellulose structure of Nalita wood (*Trema orientalis*). *Wood Science and Technology*, 39(5), 367.
- Kadić, A., Palmqvist, B., dan Lidén, G. 2014. Effects of agitation on particle-size distribution and enzymatic hydrolysis of pretreated spruce and giant reed. *Biotechnology for biofuels*, 7(1), 1-10.
- Kasmani, J. E., Nemati, M., Samariha, A., Chitsazi, H., Mohammadi, N. S., dan Nosrati, H. 2011. Studying the effect of the age in *Eucalyptus camaldulensis* species on wood chemical compounds used in pulping process. *American-Eurasian Journal of Agricultural & Environmental Sciences, Paquistan*, 11(6), 854-856.
- Krutul, D., Antczak, A., Radomski, A., Drożdżek, M., Kłosińska, T., dan Zawadzki, J. 2018. The chemical composition of poplar wood in relation to the species and the age of trees. *Annals of Warsaw University of Life Sciences - SGGW, Forestry and Wood Technology*(No.107), 131-138.
- Kumar, R., dan Wyman, C. E. 2010. Key features of pretreated lignocelluloses biomass solids and their impact on hydrolysis. In K. Waldron (Ed.), *Bioalcohol Production* (pp. 73-121): Woodhead Publishing.

- Lestari, S. B., dan Hastoeti, P. 2000. Penelaahan Dimensi Serat dan Komposisi Kimia Kayu Kapok (*Ceiba Pentandra* Gaerth). *Jurnal Penelitian Hasil Hutan*, 18(2), 105-110.
- Limayem, A., dan Ricke, S. C. 2012. Lignocellulosic biomass for bioethanol production: Current perspectives, potential issues and future prospects. *Progress in Energy and Combustion Science*, 38(4), 449-467.
- Loiwatu, M., dan Manuhuwa, E. 2008. Komponen Kimia dan Anatomi Tiga Jenis Bambu dari Seram, Maluku. *Agritech*, 28(2).
- Mainoo, A., dan Ulzen-Appiah, F. 1996. Growth, wood yield and energy characteristics of *Leucaena leucocephala*, *Gliricidia sepium* and *Senna siamea* at age four years. *Ghana Journal of Forestry*, 3: 69-79.
- McIntosh, S., Vancov, T., Palmer, J., dan Spain, M. 2012. Ethanol production from *Eucalyptus* plantation thinnings. *Bioresource Technology*, 110, 264-272.
- Melikoglu, M., Singh, V., Leu, S. Y., Webb, C., dan Lin, C. S. K. 2016. Biochemical production of bioalcohols. In R. Luque, C. S. K. Lin, K. Wilson, dan J. Clark (Eds.), *Handbook of Biofuels Production (Second Edition)* (pp. 237-258): Woodhead Publishing.
- Mishra, P. K., dan Kumar, P. 2013. Cultivation of *Gliricidia sepium* (*Gliricidia*) and its use for improving soil fertility. *Journal of The Kalash Science*, 1(1), 131-133.
- Natalia, H., Nista, D., dan Hindrawati, S. 2009. Keunggulan gamal sebagai pakan ternak. *BPTU Sembawa, Palembang*.
- Noviani, H., Supartono, S., dan Siadi, K. 2014. Pengolahan Limbah Serbuk Gergaji Kayu Sengon Laut Menjadi Bioetanol Menggunakan *Saccharomyces cerevisiae*. *Indonesian Journal of Chemical Science*, 3(2).
- Okada, G. 1976. Enzymatic studies on a cellulase system of *Trichoderma viride*. *The Journal of Biochemistry*, 80(5), 913-922.
- Pettersen, R. C. 1984. The chemical composition of wood. In: ACS Publications.
- Prawirohatmodjo, S. 2004. *Kimia Kayu: Dasar-dasar dan Penggunaan*. Yogyakarta: Gadjah Mada University Press.
- Roger, M. R., Roger, P., dan Mandla, A. T. 2012. Cell Wall Chemistry. In *Handbook of Wood Chemistry and Wood Composites*: CRC Press.

- Sáez, A. J. S. 2006. Biomass as a Source of Renewable Energy in Spain: A Case Study in Regulating Renewable Energy. *Environmental Law Review*, 8(2), 113-133.
- Samariha, A., dan Kiaei, M. 2011. Chemical composition properties of stem and branch in *Alanthus altissima* wood. *Middle East Journal of Scientific Research*, 8(5), 967-970.
- Seo, H. B., Kim, H. J., Lee, O. K., Ha, J. H., Lee, H. Y., dan Jung, K. H. 2009. Measurement of ethanol concentration using solvent extraction and dichromate oxidation and its application to bioethanol production process. *Journal of industrial microbiology & biotechnology*, 36(2), 285-292.
- Simons, A. J., dan Stewart, J. L. 1994. *Gliricidia sepium* - a multipurpose forage tree legume. In (pp. 30-48). Wallingford: CAB International.
- Sjostrom, E. 1998. *Kimia Kayu, Dasar-dasar dan Penggunaan Edisi Kedua*. Yogyakarta: Gadjah Mada University Press.
- Steel, R., dan Torrie, J. 1995. *Prinsip dan Prosedur Statistika (Terjemahan)*. Jakarta: PT. Gramedia Pustaka Utama, Jakarta.
- Stenberg, K., Bollók, M., Réczey, K., Galbe, M., dan Zacchi, G. 2000. Effect of substrate and cellulase concentration on simultaneous saccharification and fermentation of steam-pretreated softwood for ethanol production. *Biotechnology and bioengineering*, 68(2), 204-210.
- Stewart, J. L., Allison, G. E., dan Simons, A. J. 1996. *Gliricidia sepium: genetic resources for farmers*: Oxford Forestry Institute, Dept. of Plant Sciences, University of Oxford.
- Syahidah, H., dan Yunianti, A. D. 2007. Kandungan Kimia Dan Dimensi Serat Akar, Cabang Dan Batang Bagian Atas Kayu Gmelina dan Kayu Jati di Hutan Rakyat Sulawesi Selatan. *Jurnal Perennial*, 3(1), 11-14.
- Tamara, P. E., dan Sumada, K. 2012. Isolation study of efficient α -cellulose from waste plant stem *Manihot esculenta* Crantz. *Jurnal Teknik Kimia*, 5(2), 434-438.
- Verardi, A., De Bari, I., Ricca, E., dan Calabrò, V. 2012. Hydrolysis of lignocellulosic biomass: current status of processes and technologies and future perspectives. *Bioethanol*, 95-122.

- Wargadalam, V. J., Sasti, H., Trylucky, D. N., Hambali, E., Thahar, A., Nisya, F. N., Biladi, D. B. C., Haryanto, D., Suyono, E. A., Haryanti, Saadudin, E., Tursiloadi, S., Bardant, T. B., Sidjabar, O., Kussuryani, Y., Subagjo, Demustila, H., Budiyanto, Rinaldi, N., Mansur, D., Simanungkalit, S. P., Purwanto, W. W., Srikandi, G. P., Suparmoko, M., Faridha, Nurhudoyono, A., dan Pari, H. 2015. *Peta Jalan Litbang Bahan Bakar Nabati: Menuju Mandiri Energi* (T. H. Soerawidjaja dan D. Kusdiana Eds.). Bogor: PT Penerbit IPB Press.
- Winarni, I., dan Bardant, T. B. 2017. Pembuatan Bioetanol Dari Limbah Kayu Sengon (*Falcataria Moluccana* (Miq.) Barneby & Jw Grimes) Dengan Metode Substrat Konsentrasi Tinggi. *Jurnal Penelitian Hasil Hutan*, 35(4), 231-242.
- Winarni, I., Komarayati, S., dan Djarwanto. 2017. Yeast mixed formulation for bioethanol production made from sengon wood waste. *Jurnal Penelitian Hasil Hutan*, 35(2), 135-143.
- Wyman, C. 2018. *Handbook on Bioethanol: Production and Utilization*: CRC Press.
- Yang, B., Dai, Z., Ding, S.-Y., dan Wyman, C. E. 2011. Enzymatic hydrolysis of cellulosic biomass. *Biofuels*, 2(4), 421-449.
- Zhao, X., Zhang, L., dan Liu, D. 2012. Biomass recalcitrance. Part I: the chemical compositions and physical structures affecting the enzymatic hydrolysis of lignocellulose. *Biofuels, Bioproducts and Biorefining*, 6(4), 465-482.