DAFTAR PUSTAKA

Amarasekara AS. 2014. Handbook of Cellulosic Ethanol. Scrivener Publishing, Massachusetts. ***12, 13, 68***

Amin M, Rachman I, Ramlah S. 2016. Jenis Agroforestri dan Orientasi Pemanfaatan Lahan di Desa Simoro Kecamatan Gumbasa Kabupaten Sigi. Warta Rimba **4**:97–104. ***1***

Ananta D, Bachruddin Z, Umami N. 2019. Growth and Production of 2 Cultivars (*Pennisetum purpureum* Schumach.) on Regrowth Phase. IOP Conference Series: Earth and Environmental Science **387**:1–4. ***2***

Anita SH, Fajriutami T, Ermawar RA, Yanto DHY, Hermiati E. 2011. *Pretreatment Trametes versicolor* dan *Pleurotus ostreatus* pada Bagas untuk Produksi Bioetanol. Jurnal Teknologi Indonesia (JTI) **34**:33–39. ***71***

Aprianis Y, Irawati D, Marsoem SN. 2016. Penggunaan *Phanerochaete chrysosporium* pada Pengolahan Pulp Bio-Semi-Mekanis Kayu Terentang (*Campnosperma auriculata* Hook.f). Jurnal Penelitian Hasil Hutan **34**:231–239. ***3***

Badan Standarisasi Nasional. 2011. Cara Uji Mikrobiologi – Bagian 9: Penentuan *Staphylococcus aureus* pada Produk Perikanan. SNI 01-2332.9.2011, Jakarta. ***15***

Baedhowie M, Pranggonowati SB. 1982. Petunjuk Praktek Pengawasan Mutu Hasil Pertanian 1. Departemen Pendidikan dan Kebudayaan, Jakarta. ***14***

Baldwin RC, Streisel RC. 1985. Detection of Fungal Degradation at Low Weight Loss by Differential Scanning Calorimetry. Wood and Fiber Science **17**:315–326. ***66***

Basu P. 2013. Biomass Gasification, Pyrolisis, and Torrefaction: Practical Design and Theory, 2nd edition. Elsevier, Oxford. ***72***

Boyle CD, Kropp BR, Reid ID. 1992. Solubilization and Mineralization of Lignin by White Rot Fungi. Applied and Environmental Microbiology **58**:3217–3224. ***15***

Brown HP, Panshin AJ, Forsaith CC. 1952. Textbook of Wood Technology: The Physical, Mechanical, and Chemical Properties of the Commercial Woods of the United States, 2nd edition. Mc Graw Hill Book Company, New York. ***12***

Budiman B, Soetrisno RD, Budhi SPS, Indrianto A. 2011. Total Non-Structural Carbohydrate (TNC) of Three Cultivars of Napier Grass (*Pennisetum purpureum*) at Vegetative and Reproductive Phase. Journal of the Indonesian Tropical Animal Agriculture **36**:126–130. ***66***

Burdsall HH. 1998. Taxonomy of Industrially Important White-Rot Fungi. Environmentally Friendly Technologies for the Pulp and Paper Industry, John

Wiley and Sons, New York. ***8***

Burman NW, Sheridan CM, Harding KG. 2020. Feasibility Assessment of the Production of Bioethanol from Lignocellulosic Biomass Pretreated with Acid Mine Drainage (AMD). Renewable Energy **157**:1148–1155. ***68***

Buswell JA, Cai YJ, Chang ST. 1993. Fungal and Substrate Associated Factors Affecting the Ability of Individual Mushroom Species to Utilize different Lignocellulosic Growth Substrates. Pages 141–150 in Chang ST, Buswell JA, Chiu SW, editors. Mushroom Biology and Mushroom Products. Chinese University Press, Hongkong. ***11***

Chang ST, Miles PG. Mushrooms Cultivation, Nutrition Value, Medicinal Effect, and Environmental Impact Second Eddition. CRC Press, Florida. ***69, 71, 80***

Chen SF, Mowery RA, Scarlata CJ, Chambliss CK. 2007. Compositional Analysis of Water-Soluble Materials in Corn Stover. Journal of Agricultural and Food Chemistry **55**:5912–5918. ***67***

Chi Y, Hatakka A, Maijala P. 2007. Can Co-Culturing of Two White-Rot Fungi Increase Lignin Degradation and the Production of Lignin-Degrading Enzymes? International Biodeterioration and Biodegradation **59**:32–39. ***65***

Cianchetta S, Di Maggio B, Burzi PL, Galletti S. 2014. Evaluation of Selected White-Rot Fungal Isolates for Improving the Sugar Yield from Wheat Straw. Applied Biochemistry and Biotechnology **173**:609–623. ***75***

Clavero T, Miquelena E, Rodríguez-Petit A. 2001. Mineral Contents of *Acacia mangium* Willd Under Defoliation Conditions. Journal of the Faculty of Agronomy of the University of Zulia **18**:217–221. ***67***

Cotana F, Cavalaglio G, Gelosia M, Coccia V, Petrozzi A, Ingles D, Pompili E. 2015. A Comparison Between SHF and SSSF Processes from Cardoon for Ethanol Production. Industrial Crops and Products **69**:424–432. ***68***

Cox P, Webster JE. 1960. Notes on the Determination of Cellulose and Hemicelluloses in Grasses. Pages 122–124 Proceedings of Oklahoma Academy of Science. Biochemistry Department Oklahoma State University, Oklahoma. ***70***

Crawford RL. 1981. Lignin Biodegradation and Transformation. A Willey Interscience Publication, John Wiley and Sons, New York. ***8***

Cristianti E. 2021. Pengaruh Umur dan Bagian Pohon Jati Klonal (*Tectona grandis* L.f) sebagai Bahan Baku Bioetanol. Skripsi (Tidak Dipublikasikan). Fakultas Kehutanan, Universitas Gadjah Mada, Yogyakarta. ***75***

Darojati HA. 2017. Prospek Pengembangan Teknologi Radiasi Sebagai Perlakuan Pendahuluan Biomassa Lignoselulosa. Jurnal Forum Nuklir **11**:71. ***12***

Deacon JW. 1997. Modern Mycology. Wiley-Blackwell, Oxford. ***8***

Fadilah, Distantina S, Artati EK, Jumari A. 2008. Biodelignifikasi Batang Jagung dengan Jamur Pelapuk Putih *Phanerochaete chrysosporium*. Ekuilibrium **7**:7–11. ***70, 73***

Fengel D, Wegener G. 1995. Kayu: Kimia, Ultrastruktur, Reaksi-Reaksi. UGM Press, Yogyakarta. ***2, 10, 11***

Gusmarwani SR, Budi MSP, Sediawan WB, Hidayat M. 2010. Pengaruh Perbandingan Berat Padatan dan Waktu Reaksi terhadap Gula Pereduksi Terbentuk pada Hidrolisis Bonggol Pisang. Jurnal Teknik Kimia Indonesia **9**:77–82. ***5***

Hairiah K, Sardjono MA, Sabarnurdin S. 2003. Pengantar Agroforestri [Introduction to Agroforestry]. World Agroforestry Centre (ICRAF), Bogor. ***1***

Hamelinck CN, van Hooijdonk G, Faaij APC. 2005. Ethanol from Lignocellulosic Biomass: Techno-Economic Performance in Short-, Middle- and Long-Term. Biomass and Bioenergy **28**:384–410. ***10, 14***

Hanun V, Sutjahjo DH. 2018. Komparasi Karakteristik Bioetanol Gel dengan Pengental Karbopol dan *Carboxy Methyl Cellulose* (CMC) sebagai Bahan Bakar Alternatif. Jurnal Pendidikan Teknik Mesin **7**:14–20. ***13***

Hermiati E, Mangunwidjaja D, Sunarti TC, Suparno O, Prasetya B. 2010. Pemanfaatan Biomassa Lignoselulosa Ampas Tebu untuk Produksi Bioetanol. Jurnal Litbang Pertanian **29**:121–130. ***5***

Hidayat EB. 1995. Anatomi Tumbuhan Berbiji. Rineka Cipta, Jakarta. ***70, 77***

Howard RL, Masoko P, Abotsi E. 2003. Enzyme Activity of a *Phanerochaete chrysosporium* Cellobiohydrolase (CBHI.1) Expressed as a Heterologous Protein from *Escherichia coli*. African Journal of Biotechnology **2**:326–333. ***9***

Iranmahboob J, Nadim F, Monemi S. 2002. Optimizing Acid-Hydrolisis: A Critical Step for Production of Ethanol from Mixed Wood Chips. Biomass and Bioenergy **22**:401–404. ***10***

Irawati D. 2017. Hidrolisis Media Sisa Budidaya Jamur Kuping Menggunakan Tiga Jenis Enzim Selulase. Jurnal Ilmu Kehutanan **11**:52–62. ***12, 13, 14, 15, 24, 36, 70, 76, 77***

Irawati D, Azwar NR, Syafii W, Artika IM. 2009. Pemanfaatan Serbuk Kayu untuk Produksi Etanol dengan Perlakuan Pendahuluan Delignifikasi Menggunakan Jamur *Phanerochaete chrysosporium*. Jurnal Ilmu Kehutanan **3**:13–22. ***3, 14***

Irawati D, Hayashi C, Takashima Y, Wedatama S, Ishiguri F, Iizuka K, Yoshizawa N, Yokota S. 2012. Cultivation of the Edible Mushroom *Auricularia polytricha* using Sawdust-based Substrate Made of Three Indonesian Commercial Plantation Species, *Falcataria moluccana*, *Shorea sp*., and *Tectona grandis*. Micologia Aplicada International **24**:33–41. ***24, 35, 38, 65,***

67, 68, 69, 71, 72, 73,

Irawati D, Pradipta NN, R FMM, Sutapa JPG. 2019. Optimasi Produksi Badan Buah Tiga Jenis Jamur Kayu dengan Inovasi Perlakuan pada Waktu Inkubasi dan Jumlah Penyobekan pada Baglog. Jurnal Ilmu Kehutanan **13**:87–97. ***3***

Irawati D, Wedatama S, Ishiguri F, Yokota S. 2018. Association of Mushroom Cultivation and Ozonolysis as Pretreatment for Enzymatic Saccharification of Sengon (*Falcataria moluccana*) Sawdust. Jurnal Ilmu Kehutanan **12**:14. ***75, 76***

Iriani P. 2003. Delignifikasi Sabut Kelapa (*Cocos nucifera* L.) oleh Jamur *Phanerochaete chrysosporium*. DGLHUB STIH-ITB, Bandung. ***9***

Iskandar T, Rofiatin U. 2017. Karakteristik Biochar Berdasarkan Jenis Biomassa dan Parameter Proses Pyrolisis. Jurnal Teknik Kimia **12**:28–34. ***9***

Istek A, Sivrikaya H, Eroglu H, Gulsoy SK. 2005. Biodegradation of *Abies bornmülleriana* (Mattf.) and *Fagus orientalis* (L.) by the White Rot Fungus *Phanerochaete chrysosporium*. International Biodeterioration and Biodegradation **55**:63–67. ***3***

James AK, Thring RW, Helle S, Ghuman HS. 2012. Ash Management Review-Applications of Biomass Bottom Ash. Energies **5**:3856–3873. ***13***

Jo WS, Bae SH, Choi SY, Park SD, Yoo YB, Park SC. 2010. Development of Detection Methods for Cellulolytic Activity of *Auricularia auricula-judae*. Mycobiology **38**:74–77. ***71***

Kartasapoetra AG. 1991. Pengantar Anatomi Tumbuh-Tumbuhan. Rineka Cipta, Jakarta. ***16***

Kaewpila C, Khota W, Gunun P, Piyawit K, Cherdthong A. 2020. Strategic Addition of Different Additives to Improve Silage Fermentation, Aerobic Stability and In Vitro Digestibility of Napier Grasses at Late Maturity Stage. Agriculture ***10***:1–13. ***72***

Keller F, Hamilton J, Nguyen Q. 2003. Microbial Pretreatment of Biomass: Potential for Reducing the Severity of Thermochemical Biomass Pretreatment. Applied Biochemistry and Biotechnology **105**–**108**:27–41. ***7***

Kirk TK, Farrell RL. 1987. Enzymatic "Combustion": The Microbial Degradation of Lignin. Annual Review of Microbiology **41**:465–505. ***8***

Koutrotsios G, Mountzouris KC, Chatzipavlidis I, Zervakis GI. 2014. Bioconversion of Lignocellulosic Residues by *Agrocybe cylindracea* and *Pleurotus ostreatus* Mushroom Fungi-Assessment of Their Effect on the Final Product and Spent Substrate Properties. Food Chemistry **161**:127–135. ***12***

Kües U. 2007. Wood Production, Wood Technology, and Biotechnological Impacts. Universitätsverlag Göttingen, Göttingen. ***3***

Kumar AG, Sekaran G, Krishnamoorthy S. 2006. Solid State Fermentation of *Achras zapota* Lignocellulose by *Phanerochaete chrysosporium*. Bioresource Technology **97**:1521–1528. ***7***

Kumar P, Barrett DM, Delwiche MJ, Stroeve P. 2009. Methods for Pretreatment of Lignocellulosic Biomass for Efficient Hydrolysis and Biofuel Production. Industrial and Engineering Chemistry Research **48**:3713–3729. ***7***

Kumar R, Wyman CE. 2010. Key Features of Pretreated Lignocelluloses Biomass Solids and Their Impact on Hydrolysis. Bioalcohol Production Biochemical Conversion of Lignocellulosic Biomass, CRC Press, Florida. ***14***

Kuo CH, Lee CK. 2009. Enhancement of Enzymatic Saccharification of Cellulose by Cellulose Dissolution Pretreatments. Carbohydrate Polymers **77**:41–46. ***13***

Leatham GF, Himmel ME. 1991. Enzymes in Biomass Conversion. America Chemical Society, Washington DC. ***77***

Lestari E, Pramasari DA, Amin Y, Adi DS, Bahanawan A, Dwianto W. 2017. The Chemical Components Changes of Platinum Teak Wood. Pages 205–211 Proceeding of International Symposium for Sustainable Humanosphere. ***69, 70***

Li XB, Shupe TF, Peter GF, Hse CY, Eberhardt TL. 2007. Chemical Changes with Maturation of the Bamboo Species *Phyllostachys pubescens*. Journal of Tropical Forest Science **19**:6–12. ***65***

Lin SY, Dence CW. 1992. Methods in Lignin Chemistry. Springer-Verlag, Heidelberg. ***33***

Lugiyo. 2016. Pengaruh Umur Pemotongan Terhadap Produksi Hijauan Rumput Sorghum sp. sebagai Tanaman Pakan Ternak. Balai Penelitian Ternak, Bogor. ***15***

Lukmandaru G. 2009a. Pengukuran Kadar Ekstraktif dan Sifat Warna pada Kayu Teras Jati Doreng (*Tectona grandis*). Jurnal Ilmu Kehutanan **3**:67–73. ***66***

Lukmandaru G. 2009b. Sifat Kimia dan Warna Kayu Teras Jati pada Tiga Umur Berbeda. Journal Tropical Wood Science and Technology **7**:1–7. ***66***

MacLellan J. 2010. Strategic of Enhance Enzymatic Hydrolysis of Cellulose in Lignocellulosic Biomass. Basic biotechnology **6**:31–35. ***5***

Martawijaya A. 1996. Petunjuk Teknis Keawetan Kayu dan Faktor yang Mempengaruhinya. Pusat Penelitian dan Pengembangan Hasil Hutan dan Sosial Ekonomi Hutan, Bogor. ***10***

Martina A. 1998. Optimasi Beberapa Faktor Fisik yang Mempengaruhi Degradasi Kayu Albasia (*Paraserianthes falcataria* (L.) Nielsen), Karboksi Metil Selulosa (CMC) dan Indulin secara Enzim oleh Jamur *Phanerochaete chrysosporium* Burds. Tesis (Tidak Dipublikasikan). Fakultas Peternakan, Institut Teknologi Bandung, Bandung. ***9***

Martina A, Linda TM, Zul D, Veronika N, Jelita R. 2015. Aktivitas Ligninolitik Beberapa Jamur *Aphyllophorales* dan Kemampuannya Mendegradasi Lignin pada Lindi Hitam. Al-Kauniyah: Jurnal Biologi **8**:27–31. ***3***

Matsushita Y, Kakehi A, Miyawaki S, Yasuda S. 2004. Formation and Chemical Structures of Acid-Soluble Lignin II: Reaction of Aromatic Nuclei Model Compounds with Xylan in the Presence of a Counterpart for Condensation, and Behavior of Lignin Model Compounds with Guaiacyl and Syringyl Nuclei in 72% Sulfuric. Journal of Wood Science **50**:136–141. ***74***

McGuire B, Rupp S. 2013. Perennial Herbaceous Biomass Production and Harvest in the Prairie Pothole Region of the Northern Great Plains. National Wildlife Federation, Texas. ***15***

McKendry P. 2002. Energy Production from Biomass (Part 1): Overview of Biomass. Bioresource Technology **83**:37–46. ***5***

Minmunin J, Limpitipanich P, Promwungkwa A. 2015. Delignification of Elephant Grass for Production of Cellulosic Intermediate. Energy Procedia **79**:220–225. ***3***

Mosier N, Hendrickson R, Ho N, Sedlak M, Ladisch MR. 2005a. Optimization of pH Controlled Liquid Hot Water Pretreatment of Corn Stover. Bioresource Technology **96**:1986–1993. ***7***

Mosier N, Wyman C, Dale B, Elander R, Lee YY, Holtzapple M, Ladisch M. 2005b. Features of Promising Technologies for Pretreatment of Lignocellulosic Biomass. Bioresource Technology **96**:673–686. ***10***

Nadia. 2021. Fapet UGM Kembangkan Gama Umami, Rumput Unggul Hasil Radiasi Sinar Gamma – Fakultas Peternakan UGM. Available from https://fapet.ugm.ac.id/id/fapet-ugm-kembangkan-gama-umami-rumputunggul-hasil-radiasi-sinar-gamma/ (accessed July 25, 2022). ***7***

Narinthorn R, Choorit W, Chisti Y. 2019. Alkaline and Fungal Pretreatments for Improving Methane Potential of Napier Grass. Biomass and Bioenergy **127**:1–12. ***1***

Nasution HI, Dewi RS, Hasibuan P. 2016. Pembuatan Etanol Dari Rumput Gajah (*Pennisetum purpureum Schumach*) Menggunakan Metode Hidrolisis Asam dan Fermentasi *Saccharomyces cerevisiae*. Jurnal Pendidikan Kimia **8**:144–151. ***2***

Nurnasari E, Nurindah N. 2018. Karakteristik Kimia Serat Buah, Serat Batang, dan Serat Daun. Buletin Tanaman Tembakau, Serat dan Minyak Industri **9**:64. ***11***

Okada G. 1976. Enzymatic Studies on a Cellulase System of *Trichoderma viride*. Journal of Biochemistry **80**:913–922. ***12, 69***

Orth ANNB, Royse DJ, Tien M. 1993. Ubiquity of Lignin-Degrading Peroxidases Wood-Degrading Fungi Various. Applied and Environmental Microbiology

59:4017–4023. ***10***

Osvaldo ZS, Putra PS, Faizal M. 2012. Pengaruh Konsentrasi Asam dan Waktu Pada Proses Hidrolisis dan Fermentasi Pembuatan Bioetanol dari Alang-Alang. Jurnal Teknik Kimia **18**:52–62. ***13***

Parjimo H, Andoko A. 2007. Budidaya Jamur (Jamur Kuping, Jamur Tiram, Jamur Merang). Agro Media Pustaka, Jakarta. ***15***

Pérez J, Muñoz-Dorado J, Rubia TDL, Martínez J. 2002. Biodegradation and Biological Treatments of Cellulose, Hemicellulose and Lignin: An Overview. International Microbiology **5**:53–63. ***10***

Phitsuwan P, Sakka K, Ratanakhanokchai K. 2016. Structural Changes and Enzymatic Response of Napier Grass (*Pennisetum purpureum*) Stem Induced by Alkaline Pretreatment. Bioresource Technology **218**:247–256. ***1***

Potumarthi R, Baadhe RR, Nayak P, Jetty A. 2013. Simultaneous Pretreatment and Sacchariffication of Rice Husk by *Phanerochete chrysosporium* for Improved Production of Reducing Sugars. Bioresource Technology **128**:113–117. ***75***

Pradipta NN. 2020. Pengaruh Jenis dan Lama Waktu Budidaya Jamur terhadap Sifat Limbah Media Tanam sebagai Bahan Baku Produksi Etanol. Skripsi (Tidak Dipublikasikan). Fakultas Kehutanan, Universitas Gadjah Mada, Yogyakarta. ***77***

Prawirohatmodjo S. 1997. Kimia Kayu. Yayasan Pembina Fakultas Kehutanan Universitas Gadjah Mada, Yogyakarta. ***10***

Reddy CA, Mathew Z. 2009. Bioremediation Potential of White Rot Fungi. Pages 52–78 in Gadd GM, editor. Fungi in Bioremediation. Cambridge University Press, Cambridge. ***9***

Rendra PPR, Sulaksana N, Alam BYCSSS. 2016. Optimalisasi Pemanfaatan Sistem Agroforestri Sebagai Bentuk Adaptasi Dan Mitigasi Tanah Longsor. Bulletin of Scientific Contribution **14**:117–126. ***1***

Rengsirikul K, Ishii Y, Kangvansaichol K, Pripanapong P, Sripichitt P, Punsuvon V, Vaithanomsat P, Nakamanee G, Tudsri S. 2011. Effects of Inter-Cutting Interval on Biomass Yield, Growth Components and Chemical Composition of Napiergrass (*Pennisetum purpureum* Schumach) Cultivars as Bioenergy Crops in Thailand. Japanese Society of Grassland Science **57**:135–141. ***72***

Respati AN, Umami N, Hanim C. 2018. Growth and Production of *Brachiaria brizantha* cv. MG5 in Three Difference Regrowth Phase Treated by Gamma Radiation Dose. Tropical Animal Science Journal **41**:179–184. ***2***

Rozlinda D, Djufri U, Wijaya H. 2022. Pemanfaatan Biomassa Padat Kelapa Sawit Sebagai Energi Baru Terbarukan di PLTU Pabrik Kelapa Sawit PT. Perkebunan Nusantara VI Unit Usaha Bunut. Journal of Electrical Power Control and Automation **5**:17–23. ***5***

Rudakiya DM, Gupte A. 2017. Degradation of Hardwoods by Treatment of White Rot Fungi and its Pyrolysis Kinetics Studies. International Biodeterioration and Biodegradation **120**:21–35. ***11, 73***

Rukmana R. 2005. Budidaya Rumput Unggul Hijauan Makanan Ternak. Kanisius, Yogyakarta. ***6***

Sadono R, Murdawa B, Soeprijadi D, Nawari. 2011. Biometrika Hutan. Interlude, Yogyakarta. ***19***

Sánchez C. 2009. Lignocellulosic Residues: Biodegradation and Bioconversion by Fungi. Biotechnology Advances **27**:185–194. ***8, 10, 12, 67, 69, 70, 80***

Scott GM, Akhtar M, Lentz MJ, Kirk TK, Swaney R. 1998. New Technology for Papermaking: Commercializing Biopulping. Tappi Journal **81**:220–225. ***7***

Seftian D, Antonius F, Faizal M. 2012. Pembuatan Etanol dari Kulit Pisang Menggunakan Metode Hidrolisis Enzimatik dan Fermentasi. Jurnal Teknik Kimia **18**:10–16. ***13, 14***

Sembiring P. 2006. Biokonversi Limbah Minyak Inti Sawit dengan *Phanerochaete chrysosporium* dan Aplikasinya terhadap Performa Ayam Broiler. Disertasi (Tidak Dipublikasikan). Fakultas Ilmu Peternakan, Universitas Padjajaran, Bandung. ***9***

Seseray DY, Saragih EW, Katiop Y. 2012. Pertumbuhan dan Produksi Rumput Gajah (*Pennisetum purpureum*) pada Interval Defoliasi yang Berbeda. Jurnal Ilmu Peternakan **7**:31–36. ***1***

Setiyaningrum E, Kaca IN, Suwitari NKE. 2018. Pengaruh Umur Pemotongan Terhadap Produksi dan Kualitas Nutrisi Tanaman Indigofera (*Indigofera sp*). Gema Agro **23**:59. ***67***

Shi J, Mirvat E, Yang B, Wyman CE. 2009. The Potential of Cellulosic Ethanol Production from Municipal Solid Waste: A Technical and Economic Evaluation. Energy Development and Technology **15**:1–38. ***12***

Silsia D, Yahya R, Mucharomah. 2010. Optimasi Biokraft Jamur *Phanerochaete chrysosporium* terhadap Komponen Kimia Campuran Batang dan Limbah Cabang Mangium Sebagai Bahan Baku Pulp. Jurnal Molekul **5**:56–65. ***74***

Sinaga R. 2007. Analisis Model Ketahanan Rumput Gajah dan Rumput Raja Akibat Cekaman Kekeringan Berdasarkan Respons Anatomi Akar dan Daun. Jurnal Biologi Sumatera **2**:17–20. ***6***

Singh BP, Singh HP, Obeng E. 2013. Biofuel Crops: Production, Physiology and Genetics. CABI, Boston. ***6***

Sjöström E. 1995. Kimia Kayu: Dasar-dasar dan Penggunaan, 2nd edition. Gadjah Mada University Press, Yogyakarta. ***10, 71, 72***

Sokanandi A, Pari G, Setiawan D, Saepuloh. 2014. Komponen Kimia Sepuluh Jenis

Kayu Kurang Dikenal: Kemungkinan Penggunaan Sebagai Bahan Baku Pembuatan Bioetanol. Jurnal Penelitian Hasil Hutan **32**:209–220. ***13, 73***

Sugiyama J, Vuong R, Chanzy H. 1991. Electron Diffraction Study on the Two Crystalline Phases Occurring in Native Cellulose from an Algal Cell Wall. Macromolecules **24**:4168–4175. ***11***

Sun Z et al. 2022. Effect of Pretreatment with *Phanerochaete chrysosporium* on Physicochemical Properties and Pyrolysis Behaviors of Corn Stover. Bioresource Technology **361**:1–8. ***67***

Surono. 2002. Evaluasi Kualitas Silase Rumput Gajah (*Pennisetum purpureum*) pada Umur Potong dan Level Aditif yang Berbeda. Tesis (Tidak Dipublikasikan). Fakultas Peternakan, Universitas Gadjah Mada, Yogyakarta. ***68***

Surono, Soejono M, Budhi SP. 2006. Kehilangan Bahan Kering dan Bahan Organik Silase Rumput Gajah Pada Umur Potong dan Level Aditif Yang Berbeda. Jurnal Pengembangan Peternakan Tropis **31**:62–67. ***2***

Taherzadeh MJ, Karimi K. 2008. Pretreatment of Lignocellulosic Wastes to Improve Ethanol and Biogas Production: A Review. International Journal of Molecular Sciences **9**:1621–1651. ***7***

Takara D, Khanal SK. 2015. Characterizing Compositional Changes of Napier Grass at Different Stages of Growth for Biofuel and Biobased Products Potential. Bioresource Technology **188**:103–108. ***2***

Talebnia F, Karakashev D, Angelidaki I. 2010. Production of Bioethanol from Wheat Straw: An Overview on Pretreatment, Hydrolysis and Fermentation. Bioresource Technology **101**:4744–4753. ***7***

Umami N, Suhartanto B, Agus A. 2019a. Perbedaan Perlakuan Penyinaran Radiasi Gamma pada Rumput Gajah (*Pennisetum purpureum* sp) terhadap Pertumbuhan. Laporan Penelitian Fakultas Peternakan, Universitas Gadjah Mada, Yogyakarta. ***7***

Umami N, Suhartanto B, Wahyono T. 2019b. Pengembangan Rumput Gajah Varietas Baru Melalui Mutasi Gama Radiasi. Laporan Penelitian Fakultas Peternakan, Universitas Gadjah Mada, Yogyakarta. ***6***

Umar MA. 2018. Pengaruh Waktu Sakarifikasi Fermentasi Simultan terhadap Produksi Etanol dari Limbah Media Budidaya Jamur Tiram (*Pleurotus ostreatus*). Skripsi (Tidak Dipublikasikan). Fakultas Kehutanan, Universitas Gadjah Mada, Yogyakarta. ***15***

USDA. 2012. Plants profile for *Pennisetum purpureum* Schumach Elephant grass. Available from http://plants.usda.gov (accessed July 21, 2022). ***6***

Valette N, Perrot T, Sormani R, Gelhaye E, Morel-Rouhier M. 2014. Antifungal Activities of Wood Extractives. Fungal Biology Reviews **32**:2017. ***66***

Wahyuni RD, Kamaliyah SN. 2012. Studi Tentang Pola Produksi Alfalfa Tropis (*Medicago sativa* l.). Jurnal Ilmu-Ilmu Peternakan **19**:20–27. ***16***

Wang Y, Zhan H, Ding Y, Wang S, Lin S. 2016. Variability of Anatomical and Chemical Properties with Age and Height in *Dendrocalamus brandisii*. BioResources **11**:1202–1213. ***73***

Wilbraham AC, Matta MS. 1992. Pengantar Kimia Organik dan Hayati. Page (Achmadi S, editor). Penerbit ITB, Bandung. ***75***

Winata ED, Susanto WH. 2015. Pengaruh Penambahan Antiinversi dan Suhu Imbibisi terhadap Tingkat Kesegaran Nira Tebu. Jurnal Pangan dan Agroindustri **3**:271–280. ***14***

Yasuda S, Fukushima K, Kakehi A. 2001. Formation and Chemical Structures of Acid-Soluble Lignin I: Sulfuric Acid Treatment Time and Acid-Soluble Lignin Content of Hardwood. Journal of Wood Science **47**:69–72. ***74,***

Zhang RZ, Huang D, Wang K, Zhang YJ, Wang CJ. 2011. Effect of Mowing and Grazing on Ramet Emergence of *Leymus racemosus* in the Inner Mongolia Steppe During the Spring Regreening Period. African Journal of Biotechnology **10**:2216–2222. ***6***

Zhao CX, He MR, Wang ZL, Wang YF, Lin Q. 2009. Effects of Different Water Availability at Post-Anthesis Stage on Grain Nutrition and Quality in Strong-Gluten Winter Wheat. Comptes Rendus - Biologies **332**:759–764. ***67***

Zhou S, Zhang J, Ma F, Tang C, Tang Q, Zhang X. 2018. Investigation of Lignocellulolytic Enzymes During Different Growth Phases of *Ganoderma lucidum* Strain G0119 Using Genomic, Transcriptomic and Secretomic Analyses. PLoS ONE **13**:1–20. ***12, 76***

Tabel Revisi

Bab	Halaman	Perubahan
Tinjauan Pustaka	9-15	Penambahan teori dan sitasi di Sub bab Sifat Kimia dan Hidrolisis
Hasil Penelitian dan Analisis	41-63	Perubahan nilai HSD tiap parameter Sifat Kimia dan Gula Pereduksi
	60-61	Perubahan nilai ANOVA dan grafik pada parameter kadar gula pereduksi
Pembahasan	67-83	Penambahan teori dan sitasi di tiap parameter pengujian
Kesimpulan	84	Penambahan saran menjadi 3
Daftar Pustaka	85-93	Penambahan daftar pustaka dari teori-teori dan sitasi yang telah ditambahkan sebelumnya di Tinjauan Pustaka dan Pembahasan