

DAFTAR PUSTAKA

- Adelina, T. 2008. Pengaruh Komposisi Substrat dan Dosis Inokulum Laru Terhadap Nilai Gizi Ampas Sagu (*Metroxylon Sp.* *Jurnal Peternakan*. Vol 5 No.2 September (71-74)
- Ahmad E. Yousef & Carolyn Carlstrom. 2003. Food Microbiology; a laboratory manual. A Jhon Wiley-Interscience publications. Canada
- Ali, H. K. Q. and Zulkali, M. M. D. 2011. Utilization of Agro-Rseidual Lignocellulosic Sub-stances by using Solid State Fermentation: A Review. *Croatian Journal of Food Technology, Biotechnology, and Nutrition*. 6, 5-12
- Asben, A. 2012. Rekayasa Proses Produksi Hidrolisat dari Ampas Sagu Sebagai Substrat untuk Pembuatan Bioetanol. *Disertasi*. Teknologi Industri Pertanian. IPB. Bogor
- Bai, X., Wang, G., Yu, Y., Wang, D., & Wang, Z. (2018). Changes in The Physicochemical Structure and Pyrolysis Characteristics of Wheat Straw After Rod-Milling Pretreatment. *Bioresour Technol* 250, 770–776. doi:10.1016/j.biortech.2017.11.085
- Brock, T.D., Madigan, M.T., Martinco, J.m., & Parer, J. 1994. Biology of Microorganism. Prentice-Hall Int. Inc. New Jersey
- Cara, C., Ruiz, E., Ballesteros, M., Manzanares, P., Negro, M.J., & Castro, E. 2008. Production of Fuel Ethanol from Steam-Explosion Pretreated Olive Tree Pruning. *Fuel* ,87, 692–700
- Campbell, N., and J. B. Reece. Biologi Edisi Delapan. Penerbit Erlangga, Jakarta
- Charles W. Bamforth. 2005. Food, Fermentation and Micro-organism. Blackwell Science Ltd a Blackwell Publishing Company. UK
- Chin, K.L., H'ng, P.S., L.J. Wong., Tey, B.T., & Paridah, M.T. 2012. Optimization Study of Ethanolic Fermentation from Oil Palm Trunk, Rubberwood, and Mixed Hardwood Hydrolysis using *saccharomyces cerevisiae*. *Biosource Technology* 101: 3287-3291
- Dehani, F. R., Argo, B. D., & Yulianingsih, R. (2013). Pemanfaatan Iradiasi Gelombang Mikro Untuk Memaksimalkan Untuk Proses Pretreatment Degradasi Lignin Jerami Padi (Pada Produksi Bioetanol). *Jurnal Bioproses Komoditas Tropis*, 13-20.
- Dodic, S., Steve, P., Jelena, D., Jovana, R., Zoltan, Z., & Rada, J.M. 2009. Bioethanol Production from Juice as Intermediet of Sugar Beet Processing. *Biomass and Bioenergy* 33: 822-827

- Fengel, D., & Wegener, G. (1995). Kayu: Kimia Ultrastruktur, Reaksi-Reaksi. *Terjemahan Hardjono Sastroamidjojo dan Soenardi Prawirohatmodjo*. Gadjah Mada University Press. Yogyakarta
- Frazier, W. C. & Westhoff, P. C. 1978. Food Microbiology. 3rd Ed. McGraw-Hill Company Ltd. New Delhi
- Furutani. 2015. Recent Trends in Blood Glucose Control Studies. *Automat Control Physiol State Func.* 2: 106
- Garrote, G., Cruz, J.M., Domínguez, H., & Parajó, J.C., 2008. Non-Isothermal Autohydrolysis of Barley Husks: Product Distribution and Antioxidant Activity of Ethyl Acetate Soluble Fractions. *J. Food Eng.* 84, 544–552
- Ghose, T.K. 1987. Measurement of Cellulase Activities. International Union of Pure and Applied Chemistry
- Gibson, B. R., Lawrence, S. J., Leclaire, J. P., Powell, C. D., & Smart, K. A. 2007. Yeast Responses to Stresses Associated with Industrial Brewery Handling. *FEMS Microbiol Rev.* 31, 535–569 DOI: 10.1111/j.1574-6976.2007.00076.x
- Gierer, J. : Chemistry of Delignification part I. General Concept and Reaction During pulping. *Wood Science and technology* 20 (1), 1-33, (1985)
- Gozan, M., Samsuri, M., Hermansyah, H., Prasetya, B., Nasikin, M., & Watanabe, T. Ethanol Production from Baggase with Combination of Cellulase-Cellubiase in Simultaneous Saccharification and Fermentation (SSF) using White Rot Fungi Pretreatment. *Journal of Chemical and Natural Resources Engineering*, 3: 20-32
- Grigoryan, K., & Hakobyan, L. 2015. Effect of water activity, pH, temperature on contamination level on dried vine fruite by filamentous fungi during storage. In *Proceeding of The Yerevan State University Chemistry dan Biology*, 2015-No. 3 (pp. 23-28)
- Guan, J., Yang, G., Yin, H., Jia, F., & Wang, J. 2014. Particle size for Improvement of Peptide Production in Mixed-Culture Solid State Fermentation of Soybean Meal and the Corresponding Kinetics. *American Journal of agricultural dan Forestry*, 2(1), 1-6. Doi: 10.11648/j.ajaf.20140201.11
- Gunam, I.B.W., Wartini, N.M., Anggreni, A.A.M.D., & Suparyana, P.M. 2011. Delignifikasi Ampas Tebu dengan Larutan Natrium Hidroksida Sebelum Proses Sakarifikasi secara Enzimatis Menggunakan Enzim Selulase Kasar dari *Aspergillus niger* FNU 6018. *Teknologi Indonesia*, 34(Edisi Khusus): 24-32
- Gupta, N., Dubey, A., & Tewari, L. 2009. High Efficiency Alcohol Tolerant *Saccharomyces* Isolates of Phoenix dactylifera for Bioconversion of Sugarcane Juice into Bioethanol. *Journal of Science & Industrial Research* Vol.68,pp. 401-405
- Haryanto, B. & Philipus, P. 1992. *Potensi dan Pemanfaatan Sagu*. Kanisius, Yogyakarta

- Hidayat, N., Padaga, M. C., & Suhartini, S. *Mikrobiologi Industri*. 2006. Penerbit Andi. Yogyakarta
- Hossain ABMS & Fazliny, A.R. 2010. Creation of Alternative Energy by Bio-Ethanol Production from Pineapple Waste and The Usage of Its Properties for Engine. *African Journal of Microbiological Research*, 4(9): 813-819
- Huang, C.Y., Shang, C.K., Yu, C.C., Liang, H.C., Chang, C.T., & Der, J.H. 2018. Enhancement of the Efficiency of Bioethanol Production by *Saccharomyces cerevisiae* via Gradually Batch-Wise and Fed-Batch Increasing the Glucose Concentration. *MDPI Fermentation* (4) 45
- Jeźdrzejczyk, M., Soszka, E., Czapnik, M., Ruppert, A.M., & Grams, J. Physical and Chemical Pretreatment of Lignocellulosic Biomass. *The Evolution of Biofuels* (143-196)
- Jonsson, L.J., & Martin, C. 2015. Pretreatment of Lignocellulose: Formation of Inhibitory By-Products A review and Strategies For Minimizing Their Effects. *Bioresource Technology* vol 199: 103-112
- Judoamidjojo, M., Said, E.G., & Darwis, A. 1990. Teknologi Fermentasi Edisi 1. Rajawali Press. Jakarta
- Khandaker, M.M., Qiamuddin, K., Majrashi, A., Dalorima, T., Sajili, M.H., & Hossain, ABM. S. 2018. Bio-Ethanol Production from Fruit and Vegetable Waste by Using *Saccharomyces Cerevisiae*. *Bioscience Research*, (3): 1703-000
- Kiat, I.J. 2006. Preparation and characterization of carboxymethyl sago waste and its hydrogel. *Tesis*. Universitas Putra Malaysia
- Kim, S., Holtzapple, M.T. 2005. Lime Pretreatment and Enzymatic Hydrolysis of Corn Stover. *Bioresource Technology* 96 : 1994–2006
- Kim, H. J., Lee, S., Kim, J., Mitchell, R. J., & Lee, J. H. (2013). Environmentally Friendly Pretreatment of Plant Biomass by planetary and Attrition Milling. *Bioresource Technol.* 144, 50–56. doi: 10.1016/j.biortech.2013.06.090
- Kompiang, I.D. (1995). Pemanfaatan Limbah Sagu sebagai Ransum Ternak Ayam. *Hasil Penelitian APBN 1994/1995*. Balai Penelitian Ternak Ciawi. Bogor
- Kurnia, F. 1991. Seminar Penelitian dan Pengembangan Sagu.
- Kurniawan, M.A.P. 2020. Pengaruh Dry dan Wet Milling Pretreatment terhadap Mikrostruktur Ampas Sagu dan Produksi Gula Reduksi Melalui Hidrolisis Mikrobiologis. *Skripsi*. Universitas Gadjah Mada (Inpress)
- Lidya, B. & Djenar, N. S. 2000. Dasar Bioproses. Direktorat Jendral Pendidikan Tinggi Departemen Pendidikan Nasional. Jakarta
- Lin, Y., Zhang, W., Li, C., Sakakibara, K., Tanaka, S. & Kong, H. 2012. Factors affecting ethanol fermentation using *Saccharomyces cerevisiae* BY4742. *Biomass and Bioenergy*, (47):395–401.

- Lismeri, L., Darni, Y., Sanjaya, M.D., & Immadudin, M.I. 2019. Pengaruh Suhu Dan Waktu Pretreatment Alkali Pada Isolasi Selulosa Limbah Batang Pisang. *Journal of Chemical Process Engineering* Vol4: 1
- Liu, R., & Shen, F. 2008. Impact of Main Factors on Bioethanol Fermentation from Stalk Juice of Sweet Sorghum by Immobilized *Saccharomyces cerevisiae*, *S. kudriavzevii* and their Interspecific Hybrid. *International Journal of Food Microbiology* 131: 120-127
- Marakis, S.G. and G.S. Marakis, (1996). Fructose syrup and ethanol from deseeded carob pod. *Journal of Food Science and Technology*, 33:108-111
- Martins, L.F, D. Kolling, M. Camassola, A.J.P. Dillon, L.P. Ramos. 2008. Comparison of *Penicillium echinulatum* and *Trichoderma reesei* Cellulases in Relation to Their Activity Against Various Cellulosic Substrates. *Bioresource Technology*, 99, 1417–1424
- Mohapatra, S., Mishra, C., Behera, S.S., & Thatoi, H. 2017. Application of pretreatment, fermentation and molecular techniques for enhancing bioethanol production from grass biomass – A review. *Renewable and Sustainable Energy Reviews* (78): 1007-1032
- Mosier N, Wyman C, Dale B, Elander R, Lee YY, Holtzapple M, & Ladisch M. 2005. Features of Promising Technologies for Pretreatment of Lignocellulosic Biomass. *Bioresource technology*, 96(6): 673-686
- Ni'mah, F., Argo, B. D., Lutf, M., & Maharani, D. M. (2014). The Comparison of Paddy Straw Lignin Degradation Pretreatment Process. *Jurnal Teknologi Pertanian* Vol. 15, 77-84
- Nikolic, S., Mojovic, L., Pejin, D., Rakin, M., & Vukasinovic, M. 2010. Production of Bioethanol from Corn Meal Hydrolyzates by Free and Immobilized Cells of *Saccharomyces cerevisiae* var. *ellipsoideus*. *Biomass and Bioenergy* (34): 1449 -1456
- Onogharite, O.E., Obiora, N.V.I., & Ben, E.A. 2016. Effects of Process Variables on the Fermentation of Corn Stover: A Review. *Journal of Scientific and Engineering Research*, 2016, 3(6):279-288
- Otterstedt, K., Larsson, C., Bill, R.M., Stahlberg, A. Boles, E., Hohmann, S., & Gustafsson, L. 2004. Switching the Mode of Metabolism in the yeast *Saccharomyces cerevisiae*. *European Molecular Biology Organization* (5): 532-537
- Paratau, J. M. 1982. By-product of the Cane Sugar Industry. Elsevier Scientific Pub. O. Amsterdam
- Perez, J., Munoz-Dorado, J., Rubia, T., & Martinez, J. (2002). Biodegradation and biological treatments of cellulose, hemicellulose and lignin: an overview. *Journal of International Microbiology* 5, 53-63.

- Phisalaphong M, Srirattana N, and Tanthapanichakoon W. (2006). Mathematical Modeling to Investigate Temperature Effect on Kinetic Parameters of Ethanol Fermentation. *Biochem Eng J* 28: 36-43.
- Rehm, H. J. and G. Reed. 1981. *Biotechnology Vol. 1, Microbial Fundamentals*. Verlag Chemie GmbH. Weinheim
- Rezaei. M. N., Rezaei, E A., Kevin, J.V., & Christophe, M.C. 2015. Contribution of The Tricarboxylic Acid (TCA) Cycle and The Glyoxylate Shunt in *Saccharomyces Cerevisiae* to Succinic Acid Production During Doughfermentation. *International Journal of Food Microbiology*, 204, 24-32.
- Rezania,S., Oryani, B., Cho, J., Talaiekhosani,A., Sabbagh, F., Hashemi,B., Rupani, P.F., & Mohammadi, A.A. 2020. Different Pretreatment Technologies of Lignocellulosic Biomass for Bioethanol Production: An Overview. *Energy* (199) 1-14
- Rumawas F. dan Flach ,M., 1996. *Plant Resources of South-East Asia (prosea) no.9: plants yielding non-seed carbohydrates*. Leyden University. Blackhuys.
- Salehian, Peyman, Keikhosro Karimi, Hamid Zilouei, and Azam Jaihanipour. 2013. "Improvement of Biogas Production from Pine Wood by Alkali Pretreatment." *Fuel*
- Sassner, P., Mårtensson, C.G., Galbe, M.& Zacchi, G. 2008. Steam Pretreatment of H₂SO₄ -Impregnated *Salix* for the Production of Bioethanol. *Bioresour. Technol*, 99, 137–145.
- Sener, A., Chambas. A.& Onal, O. 2007. Effect of Fermentation Temperature of Kinetic Growth *Saccharomyces cerevisiae*. University of Cukurova Faculty of Agriculture. Adana-Turkey.
- Setyawati. H & N.A Rahman., 2010, Bioetanol dari Kulit Nanas dengan Variasi Massa *Saccharomyces cereviceae* dan Waktu Fermentasi. *Skripsi*. Institut Teknologi Nasional. Malang.
- Shafaghat, H., Najafpour, G. D., Rezaei, P. S. & Sharifzadeh, M. 2009. Growth Kinetics and Ethanol Productivity of *Saccharomyces cerevisiae* PTCC 24860 on Various Carbon Sources. *World Appl. Sci. J.7*: 140-144.
- Shi, J., Hodge, D., Pryor, S., & Li, Y. 2011. Pretreatment of lignocellulosic biomass. *BEEMS Module BI*.
- Shinghania, R.R., Sukumaran, S.K., Patel, A.K., Larroche, C., & Pandey, A. 2010. Advancement and comparative profiles in the production technologies using solid state and submerged fermentataion for microbial cellulose. *Enzyme and Microbial Technology* 46: 541-549
- Shuler dan Kargi. 2002. *Biology Tissue Culture for Animals*. Prentice Hall Inc. Upper Saddle River, USA.

- Siregar, M.1988. Dasar-dasar Kimia Organik. Jakarta: Departemen Pendidikan dan Kebudayaan, Direktorat Jenderal Pendidikan Tinggi Proyek Pengembangan Lembaga Pendidikan Tenaga Kependidikan Jakarta
- Sindhu, P. 2015. Effect of Inhibitor on Ethanol Production: A Mini Review. *Journal of Pharmaceutical Analysis* Vol: 4
- Sun, R.C., Tomkinson, J., Ma, P.L., & Liang, S.F. 2000. Comparative Study of Hemicellulose from Rice Straw by Alkali and Hydrogen Peroxide Treatments. *Carbohydrate Polymers*. 42, 111–122
- Sun, Y., & Cheng, J. 2002. Hydrolysis of lignocellulosic materials for ethanol production: a review. *Bioresource technology*,83(1), 1-11.
- Surnanti E. 2004. Pengaruh Konsentrasi Ragi dan Lama Fermentasi Terhadap Pembuatan Minyak Kelapa. *Skripsi*. UNIB. Bengkulu
- Suryawati L, Wilkins M. R, Bellmer D. D, Huhnke R. L, Maness N. O, and Banat I. M. (2008). Simultaneous Saccharification and Fermentation of Kanlow Switch Grass Pretreated by Hydrothermolysis using *Kluyveromyces marxianus* IMB4, *Biotechnol. Bioeng.* 101, 894-902.
- Sutarno, R.J., Zaharah, T.A., & Idiawati, N. 2013. Hidrolisis Enzimatik Selulosa dari Ampas Sagu Menggunakan Campura Selulase dari *Trichoderma reesei* dan *Aspergillus niger*. *Jurnal Kimia Kathulistiwa* No1. Vol:2, 52-57
- Szengyel, Z., & Zacchi, G. 2000. Effect of Acetic Acid and Furfural on Cellulose Production of *Trichoderma reesei* RUT C30. *Biochemistry and Biotechnology* Vol: 89
- Taherzadeh, M. J., Gustafsson, L., Niklasson, C., & Lidén G. (1999), Conversion of Furfural in Aerobic and Anaerobic Batch Fermentation of Glucose by *Saccharomyces cerevisiae*. *Journal Bioscience and Bioengineering*. 87, 169–174.
- Taherzadeh, M. J. & Karimi, K. 2008. Pretreatment of Lignosellusic Waste to Improve Ethanol and Biogas Production: A Review. *Int. J. Mol. Sci.* 9: 1621-1651.
- Tropea A, Wilson, D., La Torre, L.G., Curto, R.B.L., Saugman, P., Troy-Davies, P. Dugo, G., & Waldron, K.W. 2014. Bioethanol Production from Pineapple Wastes. *Journal of Food Research*, 3(4): 60.
- Tirta, P.W.W.K., Indrianti, N., & Ekafitri, R. 2013. Potensi Tanaman Sagu (*Metroxylan* sp.) dalam Mendukung Ketahanan Pangan di Indonesia. *Jurnal Pangan* (22): 61-67
- Van Maris, A. J. A., Abbott, D. A., Bellissimi, E., Brink, J. V.D., M. Kuyper, M., Luttik, A. H., Wisselink, H.W., Scheffers, W. A., Van Dijken, J.P., & Pronk, J.T. 2006. Alcoholic Fermentation of Carbon Sources in Biomass Hydrolysates by *Saccharomyces cerevisiae*: Current Status. *Antonie van Leeuwenhoek*. 90: 391–418.

- Verma, G., Nigam, P., Singh, D. & Chaudhary, K. 2000. Bioconversion of starch to ethanol in a single step process by co-culture of amylolytic yeasts and *Saccharomyces cerevisiae*. *Bioresource Technology*, 72: 261-266
- Vitarani, P.C.D. 2020. Pengaruh Pretreatment Kimiawi dengan NaOH dan Na₂SO₃ terhadap Komposisi Lignoselulosa dan Produksi Gula Reduksi Melalui Hidrolisis Mikrobiologis oleh *Trichoderma reesei* Pk₁J₂. *Skripsi*. Universitas Gadjah Mada (Inpress)
- Wardani, A.G., dan Pertiwi, F. N.E. 2013. Produksi Etanol dari tetes Tebu oleh *Saccharomyces cerevisiae* Pembentuk Flok (NRRL-Y265). *Agritech* Vol. 33, No: 2
- Winarni I, Waluyo, T.K., & Komarayati, S. 2019. Pembuatan Bioetanol dari Empulur dan Limbah Serat Sagu dengan Metode Kimiawi dan Enzimatis. *Jurnal Penelitian Hasil Hutan* (37): 43-50
- Zabed, H., Faruq, G., SahuJN, Azirun, M.S., Hashim, R., & Nasrulhaq, B.A. 2014. Bioethanol production from fermentable sugar juice. *The Scientific World Journal*, 2014:1-13
- Zhang, Q., Deyi, W., Yan, L., Xinze, W., Hainan, K., & Shuzo T. 2015. Substrate and Product Inhibition on Yeast Performance in Ethanol Fermentation. *Energy & Fuels*, 29 (2).
- Zhu, J.Y., Pan, X.J., Wang, G.S., & Gleisner, R. 2009. Sulfite Pretreatment (SPORL) for Robust Enzymatic Saccharification of Spruce and Red Pine. *Bioresour. Technol.* 100, 2411–2418.