

## DAFTAR PUSTAKA

- Apriyantono, A., Fardiaz, D., Puspitasari, N.L., Sedarnawati, Budiyanto, S. 1989. Analisis Pangan: Petunjuk Laboratorium. Bogor: PAU Pangan dan Gizi IPB.
- Becker, E.W. 1994. Oil Production. terjemahan Baddiley, dkk. Microalgae: Biotechnology and Microbiology. Cambridge: Cambridge University Press.
- BeMiller, J.N. dan Whistler, R.L. 2009. Starch: Chemistry and Technology. Amsterdam: Academic Press.
- Bezerra, R.M.F. dan Dias, A.A. 2004. Discrimination among eight modified Michaelis-Menten kinetics models of cellulose hydrolysis with a large range of substrate/enzyme ratios. *Appl. Biochem. Biotechnol.* 112. 173-184.
- Bisswanger, H. 2008. Enzyme Kinetics: Principles and Methods 2nd Ed. Weinheim: WILEY-VCH Verlag GmbH & Co. KgaA.
- Bougis, P. 1979. Marine Plankton Ecology. New York: American Elsevier Publishing Company.
- BP, BP Statistical Review of World Energy June 2015, Available: <http://www.bp.com/statisticalreview>, diakses 08-12-2015.
- Buleon, A., Colonna, P., Planchot, V., Ball, S. 1998. Starch granules: Structure and biosynthesis. *Int. J. Biol. Macromol.* 23. 85-112.
- Choi, S.P., Nguyen, M.T., Sim, S.J. 2010. Enzymatic pretreatment of *Chlamydomonas reinhardtii* biomass for ethanol production. *Bioresour. Technol.* 101. 5330-5336.
- Davidson, E.A., Samanta, S., Caramori, S.S., Savage, K. 2012. The Dual Arrhenius and Michaelis-Menten kinetics model for decomposition of soil organic

matter at hourly to seasonal time scales. *Global Change Biology*. 18. 371–384.

Desparesi, Y.A. 2011. Produksi Bioetanol dari Reject Pulp dengan Proses Sakarifikasi dan Fermentasi Serentak Menggunakan Enzim Selulase dan *Pichia stipitis*, Skripsi, Universitas Riau.

Gaman, P.M. dan Sherrington, K.B. 1994. Ilmu Pangan, Pengantar Ilmu Pangan, Nutrisi dan Mikrobiologi. Yogyakarta: Universitas Gadjah Mada Press.

Guerrero, M.G. 2010. Bioethanol from Microalgae. Spain: Universidad de Sevilla.

Graf, A. dan Koehler, T. 2000. Oregon cellulose-ethanol study: An evaluation of the potential for ethanol production in Oregon using cellulose-based feedstocks. *Oregon Office of Energy*.

Handayani, N.A. dan Ariyanti, D. 2012. Potensi mikroalga sebagai sumber biomasa dan pengembangan produk turunannya. *Teknik*. Vol. 33. No.2.

Harun, R. dan Danquah, M.K. 2011. Enzymatic hydrolysis of microalgal biomass for bioethanol production. *Chem. Eng. J.* 168. 1079–1084.

Ho, S.H., Huang, S.W., Chen, C.Y., Hasunuma, T., Kondo, A., Chang, J.S. 2013. Bioethanol production using carbohydrate-rich microalgae biomass as feedstock. *Bioresource Technol.* 135. 191–198.

Howard, R.L., Abotsi, E., Rensburg, J.E.L.V., Howard, S. 2003. Lignocellulose biotechnology: Issues of bioconversion and enzyme production. *Afr. J. Bioetchnol.* 2(12). 602-619.

Ikram-ul-haq, M.M.J., Khan, T.S., Siddiq, Z. 2005. Cotton saccharifying activity of cellulases produced by co-culture of *aspergillus niger* and *trichoderma viride*. *Res. J. Agric. Biol. Sci.* 1(3). 241-245.

- Isnansetyo, A. dan Kurniastuty. 1995. Teknik Kultur Phytoplankton dan Zooplankton. Yogyakarta: Kanisius.
- John, R.P., Anisha, G.S., Nampoothiri, K.M., Pandey, A. 2011. Micro and macroalgal biomass: A renewable source for bioethanol. *Bioresource Technol.* 102. 186–193.
- Ken, Y. 2008. Biofuel from algae. *Archit. Des.* 78. 118–119.
- Lee, S.S., Ha, J.K., Kang, H.S., McAllister, T., Cheng, K.J. 1997. Overview of energy metabolism, substrate utilization and fermentation characteristics of ruminal anaerobic fungi. *Korean J. Anim. Nutr. Feedstuffs.* 21. 295–314.
- Lynd, L.R., Weimer, P.J., Van Zyl, W.H., Pretorius, I. S. 2002. Microbial cellulose utilization: Fundamentals and biotechnology. *Microbiol. Mol. Biol. Rev.* 66(3). 506-577.
- Mata, T.M., Martins, A.A., Caetano, N.S. 2010. Microalgae for biodiesel production and other applications: A review. *Renew. Sust. Energ. Rev.* 14. 217–232.
- Marsalkova, B., Sirmerova, M., Kurec, M., Branyik, T., Branyikova, I., Melzoch, K., Zachleder, V. 2010. Microalgae *Chlorella* sp. as an alternative source of fermentable sugars. *Chem. Eng. Trans.* 21. 1279–1284.
- Pujiono dan Agustin, E. 2013. Pertumbuhan *Tetraselmis chuii* pada Medium Air Laut dengan Intensitas Cahaya, Lama Penyinaran, dan Jumlah Inokulan yang Berbeda pada Skala Laboratorium, Skripsi, Universitas Jember.
- Richana, N. 2008. Produksi dan prospek enzim xilanase dalam pengembangan bioindustri di Indonesia. *Buletin Agribio*, 5(1). 29-36.
- Romimohtarto, K. 2004. Meroplankton Laut: Larva Hewan Laut yang Menjadi Plankton. Jakarta: Djambatan.

- Rosgaard, L., Andric, P., Dam-Johansen, K., Pedersen, S., Meyer, A.S. 2007. Effects of substrate loading on enzymatic hydrolysis and viscosity of pretreated barley straw. *Appl. Biochem. Biotechnol.* 143. 27–40.
- Rostini, I. 2007. Kultur Fitoplankton (*Chlorella* sp. dan *Tetraselmis chuii*) Pada skala Laboratorium, Karya Ilmiah, Universitas Padjajaran.
- Shuler, M.L. dan Kargi, F. 1991. *Bioprocess Engineering: Basic Concepts*. New Jersey: Prentice-Hall College Div.
- Sudarmadji, S., Haryono, B., Suhardi. 1997. *Prosedur Analisis Untuk Bahan Makanan Dan Pertanian*. Yogyakarta: Liberty.
- Taherzadeh, M.J. dan Karimi, K. 2007. Enzyme-based hydrolysis processes for ethanol from lignocellulosic materials: A review. *Bioresources*. 2(4). 707-738.
- Takizawa, F.F., da Silva, G.O., Konkol, F.E., Demiate, I.M. 2004. Characterization of tropical starches modified with potassium pemanganate and lactic acid. *Braz. Arch. Biol. Techn.* 45(6). 921-931.
- Usov, A.I., Smirnova, G.P., Klochkova, N.G. 2001. Polysaccharides of algae: 55 polysaccharide composition of several brown algae from Kamchatka. *Russ. J. Bioorgan. Chem.* 27. 395–399.
- Van der Maarel, M.J.E.C., van der Veen, B., Uitdehaag, J.C.M., Leemhuis, H., Dijkhuizen, L. 2002. Properties and applications of starch converting enzymes of the  $\alpha$ -amylase family. *J. Biotechnol.* 94. 137-155.
- Whither, S.G. dan Aebersold, R. 1995. Approaches to labelling and identification of active site residues in glucosidases. *J. Protein. Sci.* 4. 361-372.
- Wuryanti. 2004. Isolasi dan penentuan aktivasi spesifik enzim bromelin dari buah nanas (*Ananas comosus* L.). *Artikel: JKSA*, Vol. VV No. 3. 83-87.

- Yulianto, M.E., Diyono, I., Hartati, I., Santiko, R.N., Putri, F.J. 2009. Pengembangan hidrolisis enzimatis biomassa jerami padi untuk produksi bioetanol. *Simposium Nasional RAPI VIII*.
- Zheng, Y., Pan, Z., Zhang, R. 2009. Overview of biomass pretreatment for cellulosic ethanol production. *Int. J. Agric. Biol. Eng.* 2(3). 51-58.