

DAFTAR PUSTAKA

- Aidia, 2011, *Penggolongan Plankton*, (Online), (<http://kuliahitukeren.blogspot.com/2011/07/penggolongan-plankton.html>, diakses 15 September 2012).
- Akbar, E., Yaakob, Z., Kamarudin, S.T., Ismail M., and Salimon, J., 2009. Characteristic and composition of Jatropha Curcas Oil Seed From Malaysia and its Potential as Biodiesel Feedstock. *Eur. J. Sci. Res.*, **29** (3): 396-403 .
- Alamsyah, A.N., 2005, *Biodiesel Jarak Pagar*, Agromedia.
- Anonim, 2011, *Nutrisi Tanaman*, (Online), (http://repository.upi.edu/operator/upload/s_kim_055328_chapter2.pdf, diakses 24 September 2012).
- Anonim, 2012, *Chlorella*, (Online), (<http://en.wikipedia.org/wiki/Chlorella>, diakses 07 Maret 2013).
- Astuti, J.T., Sriwuryandri, L., dan Sembiring, T., 2011, Pengaruh Penambahan Mg^{2+} Terhadap Produktifitas Komposisi Asam Lemak Microalga Scenedesmus Sebagai Bahan Biodiesel, *Jurnal Riset Industri*, **5** (3): 265-274.
- Bayu, A., 2010, Biodiesel dari Mikroalga Laut: Potensi dan Tantangan, *Oseana*, **35** (1): 15-24.
- Bold, H.C., and Wynne, M.J., 1985, *Introduction to The Algae: Structure and Reproduction*, Second Edition, Prentice-Hall Inc., Englewood Cliffs, New York.
- Budiastuti, S., Dampak Penyimpangan Iklim Global terhadap Hasil Pertanian, *Agrosains*, **11** (1): 22-27.
- Budidaya, P., 2009, *Budidaya Pakan Alami (Fytoplankton, Zooplankton, dan Benthos)*, (online), <http://ardivedca.blogspot.com/>, diakses tanggal 15 September 2012.
- Chon, A.M., dan Krisnandi, E., 1982, Penuntun *Praktikim Kimia Analisis Titrimetri*, Pusat Pendidikan dan Latihan, Jakarta.
- Crewe, Sabrina, 2010, *In the Ocean*, Chelsea House Publisher, New York.
- Dewick, P.M., 2002, *Medicinal Natural Product;A Biosynthetic Approach*, Second Edition, John Wiley and Sons, Chichester.

- Djoyowasito, G., Hawa, L.C., dan Argo, B.D., 2010, *Aplikasi Gelombang Ultrasonik dam Kondisi Super Kritis pasa Proses Ekstraksi dan Transesterifikasi Minyak Mikroalga Nannochloropsis sp Menjadi Biodiesel*, (Online), (<http://lppm.ub.ac.id/wrp-con/uploads/2012/03/Hendrik-Kini.pdf>, diakses 15 September 2012).
- Dyah, P.S., 2011, *Produksi Biodiesel dari Mikroalga Chlorella Sp Dengan Metode Esterifikasi In-situ*, (Online), (<http://eprints.undip.ac.id/36596/>, diakses 8 Mei 2013)
- EL-Metwally, A.E., Abdalla, F.E., El-Sawy S.S., 2010, Response of Wheat to Magnesium and Copper Foliar Feeding under Sandy Soil Condition, *J. Am. Sci.*, **6** (12): 818-823.
- Energy Technology Essentials, 2007, *Biofuel Production*, International Energy Agency.
- Dragone, G., Fernandes, B., Vicente, A.A., and Teixeira, J.A., 2010, *Third generation biofuels from microalgae*, Current Research, Technology and Education Topics in Applied Microbiology and Microbial Biotechnology, Portugal.
- Food and Agriculture of the United Nation (FAO), 2005, *Alga Based Biofuel: A Review of Challenges and Opportunities for Developing Countries*, Environment, Climate Change and Bioenergy Division, Rome.
- Guschina, I.A., and Harwood, J.L., 2006, Lipids and lipid metabolism in eukaryotic algae, *Prog. Lipid Res.*, **45**: 160-186.
- Haruna, 2011, *Unsur Makro dan Mikro pada Tumbuhan*, (Online), (<http://anieensama.wordpress.com/2011/07/26/unsur-makro-dan-mikro-pada-tumbuhan>, diakses 24 September 2012).
- Healey, F.P., 1973. The inorganic nutrition of algae from an ecological viewpoint. *eRe Crit. Rev. Microb.*, **3**: 69-113.
- Hermanto, M.B., Sumardi, Hawa L.C., dan Fiqtinovri, S.M., 2011, Perancangan Bioreaktor Untuk Pembudidayaan Mikroalga, *Jurnal Teknologi Pertanian*, **12** (3): 153-162.
- Irdoni, H.S., 2012, Pengaruh Kecepatan Pengadukan pada Proses Pembuatan Biodiesel dari Minyak Jarak Pagar (*Jatropha curcas l*) dengan menggunakan Katalis Abu Tandan Sawit, (Online), (<http://repository.unri.ac.id/bitstream/123456789/506/1/irdoni1.PDF>, diakses 8 Mei 2012).
- Kennish, M.J., 2001, *Practical Handbook of Marine Science*, Third Edition, CRC Press LLC, Florida.

- Khola, G., and Ghazala B., 2012, Biodiesel Production From Algae, *J. Bot.*, **44** (1): 379-381.
- Knothe, G., 2005, Dependence of Biodiesel Fuel Properties on The Structure of Fatty Acid Alkyl Esters, *Fuel Process Technol.*, **86**: 1059-1070.
- Knothe, G., 2006, Analyzing biodiesel : standards and other methods, *J. Am. Oil Chem. Soc.*, **83** (10): 823-833.
- Kristio, M., 2013, *Artificial Life Model Proses Fotosintesis dalam Pertumbuhan Batang Menggunakan Metode Neural Network*, (Online), (web.unair.ac.id/admin/file/f_7862_Jurnal_AI.docx, diakses 08 Mei 2013).
- Lalli, C.M., and Parson, T.R., 1997, *Biological Oceanography An Introduction*, Second Edition, Elsevier Butterworth-Heinemann, Kanada,
- Li, H., Pordesimo, L., and Weiss, J., 2004, High intensity ultrasound-assisted extraction of oil from soybeans, *Food Res. Int.*, **37**: 731–738.
- Li, Y., Horsman, M., Lan, C.Q., and Dubois-Calero M., 2008, Biofuels from Microalgae, *Biotechnol. Prog.*, **24** (4): 815-820.
- Liu ZY, Wang GC, and Zhou BC. 2008. Effect of iron on growth and lipid accumulation in *Chlorella vulgaris*. *Bioresour. Technol.*, **99** (11): 4717–4722.
- Mata, T.M., Martins, A.A., and Caetano, N.S., 2010, Microalgae for Biodiesel Production and other Applications: A Review, *Renew. and Sustainable Energy Reviews*, **14** (1): 217-232.
- McNamara III, W.B., Didenko, Y.T., and Suslick, K.S., 1999, Sonoluminescence temperatures during multi-bubble cavitation, *Nature*, **401**:772-775.
- Meyen, F.J.F., 1829, Beobachtungen iiber einige niedere Algenformen, *Nova Acta Physico-Medica Academiae Caesareae Leopoldino-Carolinae Nature*, 14: 768-778.
- Minggang, C., Zhe, L., and Anxiang, Q., 2008, Effects of iron electrovalence and species on growth and astaxanthin production of *Haematococcus pluvialis*, *Chin. J. Oceanol. and Limnol.*, **27**(2): 370-375.
- Musanif, Jamil, (2010), *Bio diesel*, Subdit Pengelolaan Lingkungan, Direktorat Pengolahan Hasil Pertanian, Ditjen Pengolahan dan Pemasaran Hasil Pertanian.
- Nilawati, Destya, 2012, *Studi Awal Sintesis Biodiesel dari Lipid Mikroalga Chlorella vulgaris Berbasis Medium Walne Melalui Reaksi Esterifikasi*

dan Transesterifikasi, Skripsi, Program Studi Teknologi Bioproses, Fakultas Teknik, Universitas Indonesia, Depok.

Nybakken, J.W., 1988, Biologi Laut Suatu Pendekata Ekologi, PT. Garmedia, Jakarta.

Panangan, A.T., Yoandini H., dan Gultom J.U., 2011, Analisis Kualitatif dan Kuantitatif Asam Lemak Tak JenuhOmega-3 dari Minyak Ikan Patin (Pangasius pangasius) dengan Metoda Kromatografi Gas, *Jurnal Penelitian Sains*, **14** (4): 38-42.

Pimentel, Alexandre, 2008, *Alga Chlorella*, (Online), (<http://produtospimentel.blogspot.com/2008/05/alfa-chlorella>, diakses 12 Maret 2013)

Pontoh, J., Surbakti, M.Br., dan Papilaya, M., 2008, Kualitas Virgin Coconut Oil dari Beberapa Metode Pembuatan, *Chem. Prog.*, **1** (1): 60-65.

Prihandana, R., Hendroko, R., dan Nuramin, M., 2006, *Menghasilkan Biodiesel Murah*, Agromedia Pustaka, Jakarta.

Prihantini, N.B., Damayanti, D., dan Yunianti, R., 2007, Pengaruh Konsentrasi Medium Ekstrak Tauge (MET) Terhadap Pertumbuhan *Scenedesmus* Isolat Subang, *Makara Sains*, **11** (1): 1-9.

Rachamniah, O., Setyarini, R.D., dan Maulida, L., 2010, Pemilihan Metode Ekstraksi Minyak Alga dari *Chlorella* sp. dan Prediksinya Sebagai Biodiesel, Seminar Teknik Kimia Soehadi Reksowardojo, Jurusan Teknik Kimia, Fakultas Teknologi Industri, Institut Teknologi Sepuluh November, Surabaya.

Rahayu, Martini. 2007. *Teknologi Proses Produksi Biodiesel*, (Online), (www.geocities.ws/markal_bppt/publish/biofbm/biraha.pdf, diakses 22 September 2012).

Reynold. C.S., 2006, *The Ecology of Phytoplankton*, Cambridge University Press, New York.

Richmond, A.E., 1986, Microalgae Culture, *Crit. Revews in Biotechnol.*, **4** (3): 369-438.

Romiyatun, D.A., 2009, *Klorofil*, (Online), (<http://iniblognyaromi.blogspot.com/2009/12/klorofil.html>, diakses 24 September 2012).

Rosita, S., 2003, *Biosintesis Asam Lemak pada Tanaman*, (Online), (<http://library.usu.ac.id/download/fp/bdp-rosita.pdf>, diakses 15 Mei 2013).

- Rosmarkam, A., dan Yuwono, N.W., 2002, *Ilmu Kesuburan Tanah*, Kanisius, Yogyakarta.
- Seafdec, 1985, Prawn Hatchery Design and Operational, *Aquaculture Extention Manual No. 9*, Aquaculture Department, Tigbauan, Iloilo, Philippines.
- Sharma, Y.C., Singh, B., and Upadhyay, S.N., 2008, Advancements in development and characterization of biodiesel: A review, *J. Fuel*, **87** (12), 2355-2373.
- Sinarep, dan Mirmanto, 2011, Karakteristik Biodiesel Minyak Kelapa yang dihasilkan dengan cara Proses Pirolisis Kondensasi, *Jurnal Teknik Rekayasa*, **12** (1): 8-18.
- Stavarache, C., Vinotoru, M., and Maeda, Y., 2007, Aspects of Ultrasonically Assisted Transesterification of Various Vegetable Oils WITH methanol, *Ultrason. Sonochem.*, **14**: 380-386.
- Sudarmadji, S., 1989, *Analisa Bahan Makanan dan Pertanian*, Liberty Yogyakarta, Yogyakarta.
- Suirta, I W., 2009, Preparasi Biodiesel dari Minyak Jelantah Kelapa Sawit, *Jurnal Kimia*, **3** (1): 1-6.
- Susilaningsih, D., Djohan, A.D., Widyaningrum, D.N., dan Anam, K., 2009, Biodiesel from Indigenous Indonesian Marine Microalgae, *Nannochloropsis* sp., *J. Biotechnol. Res. Trop. Reg.*, **2** (2): 1-4.
- Supardan, M.D., 2011, Penggunaan Ultrasonik Untuk Transesterifikasi Minyak Goreng Bekas, *Jurnal Rekayasa Kimia dan Lingkungan*, **8** (1): 11-16.
- Surya, D., 2006, *Optimalisasi Proses Sintesis Biodiesel dari Minyak Biji Jarak Pagar (Jathropa curcas L.) Dengan Menggunakan Katalis KOH Berdasarkan variasi suhu*, skripsi tidak diterbitkan, Jurusan Kimia FMIPA Universitas Hasanuddin, Makassar.
- Suslick, K.S., Didenko, Y., Fang, M.M., Hyeon, T., Kolbeck, K.J., McNamara III, W.B., Mdleni, M.M., and Wong, M., 1999, Acoustic Cavitation and its Chemical Consequences, *Phil. Trans. R. Soc. Lond. A*, **357**: 335-353.
- Taba, P., Zakir, M., Kasim, A.H., dan Fauziah, S., 2011, *Penuntun Praktikum Kimia Fisika*, Laboratorium Kimia Fisika Jurusan Kimia Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Hasanuddin, Makassar.
- The Energy Report, 2008, *Biodiesel*, Texas Comptroller of Public Accounts, Texas.
- Thompson, L.H., and Doraiswamy, L.K., 1999, Sonochemistry: Science and Engineering, *Ind. Eng. Chem. Res.*, **38**: 1215-1249.

- Triana, V., 2008, Pemanasan Global, *Jurnal Kesehatan Masyarakat*, **II** (2): 159-163.
- Triantoro, K., 2008, *Alga Mikro Scenedesmus sp. Sebagai Salah Satu Alternatif Bahan Baku Biodiesel di Indonesia*, Karya Tulis Ilmiah, Fakultas Matematika dan Ilmu Pengetahuan Alam Universitas Negeri Yogyakarta, Yogyakarta.
- Zahir, F.N., 2011, *Peningkatan Produksi Biomassa Chlorella vulgaris dengan Perlakuan Mikrofiltrasi pada Sirkulasi Aliran Medium Kultur sebagai Bahan Baku Biodiesel*, Skripsi, Departemen Teknik Kimia, Fakultas Teknik, Universitas Indonesia, Depok.
- Zuhdi, MFA., Sukardi, (2005). *Alga Sebagai Bahan Baku Biodiesel*, (Online): (<http://www.geocities.com/fathalaz/biodiesel.html>] diakses 15 September 2012).
- Zuka, Z., McConnel, B., and Farag, I., 2012, Comparison of Freshwater and Wastewater Medium for Microalgae Growth and Oil Production, *J. Am. Sci.*, **8** (2): 392-398.