

DAFTAR PUSTAKA

- Andersen, R.A. 2005. *Algal Culturing Technique*. Elsevier Academic Press. UK.
- Ashari, S. 1995. *Hortikultura Aspek Budidaya*. Penerbit Universitas Indonesia. Jakarta.
- Bala, J. D., J. Lalung and N. Ismail. 2014. Palm oil mill effluent (POME) treatment “microbial communities in an anaerobic digester”: a review. *International Journal of Scientific and Research Publications*. 4: 2250-3153.
- Barsanti, L. and Gualtieri, P. 2006. *Algae: Anatomy, Biochemistry, and Biotechnology*. Taylor & Francis group.
- Brown, M. R., S. W. Jeffrey., J. K. Volkman., and G. A. Dunstan. 1997. Nutritional Properties of Microalgae for Mariculture. *Aquaculture*. 151: 315-331.
- Campbell, N.A., J.B. Reece., A.U. Lisa., L.C. Michael., A.W. Steven., V.M. Peter., and B.J. Robert. 2008. *Biology 8th*. Pearson Education, Inc. San Fransisco.
- Carvalho, L.F. D., M.S.D. Oliveira., and J.A.V. Costa. 2014. Evaluation of the influence of nitrogen and phosphorus nutrients in the culture and production of biosurfactants by microalga *Spirulina*. *Journal of Engineering Research and Applications*. 4: 90-98
- Chojnacka, K., A. Chojnacka., H. Gorecka. 2005. Biosorption of Cr³⁺, Cd²⁺ and Cu²⁺ ions by blue-green algae *Spirulina* sp.: kinetics, equilibrium and the mechanism of the process. *Chemosphere*. 59:75-84.
- Chrismadha, T., L. M. PPanggabean., dan Y. Mardiaty. 2006. Pengaruh konsentrasi nitrogen dan fosfor terhadap pertumbuhan, kandungan protein, karbohidrat dan fikosianin pada kultur *spirulina fusiformis*. *Berita Biologi*. 8: 163-169.
- Chu, W.L., Y.W. Lim., A.K. Radhakrishnan., P.E. Lim. 2010. Protective effect of aqueous extract from *Spirulina platensis* against cell death induced by free radicals. *The official journal of the International Society for Complementary Medicine Research*. 10:53-61.
- Cottingham, K.L., H.A. Ewing., M.L. Freer., C.C. Carey., K.C. Weathers. 2015. Cyanobacteria as biological drives of lake nitrogen and phosphorus cycling. *Ecosphere*. 6:1-19.
- Dere, S., G.Tohit and S. Ridvan. 1998. Spectrophotometric determination of chlorophyll-A, B and total carotenoids contents of some algae species using different solvents. *Turkish Journal of Botany*, 22:13-17.

- DITJEN PPHP (Direktorat Jenderal Pengolahan dan Pemasaran Hasil Pertanian Direktorat Jenderal Pengolahan dan Pemasaran Hasil Pertanian). 2006. *Pedoman Pengolahan Limbah Industri Kelapa Sawit*. Departemen Pertanian. Jakarta.
- Dubois, M., K.A Gilles., J.K. Hamilton., P.A. Rebers and F.Smith. 1956. Colorimetric method for determination of sugars and related substances. *Analytical Chemistry*. 28:350-356.
- Eykelenburg, V.C. 1977. On the morphology and ultrastructure of the cell wall of *Spirulina platensis*. *Journal of Microbiology Serology*. 43: 89-99.
- Gardner, N.L. 1917. New Pacific coast marine algae. *University of California Publications in Botany*. 6: 377-416.
- Gunawan. 2010. Keragaman dan Karakterisasi Mikroalga dari Sumber Air Panas yang Berpotensi Sebagai Sumber Biodiesel [tesis]. Bogor: Fakultas Matematika dan Pengetahuan Alam, Institut Pertanian Bogor.
- Habib, M. A. B and M. Parvin. 2008. *A review on culture, production and use of spirulina as food for humans and feeds for domestic animal and fish*. Food and Agriculture Organization of The United Nations. Rome.
- Hakalin, N.L.S., A.P. Paz., D.A.G. Aranda., and L.M.P. Moraes. 2014. Enhancement of Cell Growth and Lipid Content of a Freshwater Microalga *Scenedesmus* sp. by Optimizing Nitrogen, Phosphorus and Vitamin Concentrations for Biodiesel Production. *Natural Science*. 6: 1044-1054.
- Ho, S. H., C. Y. Chen and J. S. Chang. 2012. Effect of light intensity and nitrogen starvation on CO₂ fixation and lipid/carbohydrate production of an indigenous microalga *Scenedesmus obliquus* cnw-n. *Bioresource Technology*. 113:244–252.
- Huo, Y. X., K. M. Cho, J. G. L. Rivera, E. Monte, C. R. Shen, Y. J. Yan, and J. C. Liao. 2011. Conversion of proteins into biofuels by engineering nitrogen flux. *Nature Biotechnology*. 29: 346-351.
- Kim, S. 2015. *Hanbook of marine microalgae: biotechnology advantages*. Elsevier, Inc. America.
- Kumar M., J. Kulshreshtha., G.P. Singh. 2011. Growth and biopigment accumulation of cyanobacterium *Spirulina platensis* at different light intensities and temperature. *Brazilian Journal of Microbiology* 42: 1128-1135.
- Lee, K.T and C. Ofori-Boateng. 2013. *Sustainability of Biofuel Production from Oil Palm Biomass*. Springer. Singapore.

- Mandalam R. K. and B. O. Palsson. 1998. Elemental balancing of biomass and medium composition enhances growth capacity in high-density *Chlorella vulgaris* cultures. *Biotechnology Bioengineering*. 59: 605-11.
- Markou, G., D. Vandamme and K. Muylaert. 2014. Microalgal and cyanobacteria; cultivation: The supply of nutrients. *Water Research*. 65: 186-202.
- Miller, S. R., M. Martin., J. Touchton., R. W. Castenholz. 2002. Effects of nitrogen availability on pigmentation and carbon assimilation in the cyanobacterium *Synechococcus* sp. Strain sh94-5. *Archives of Microbiology*. 177: 392-400.
- Moisander, P.H., E. McClinton, H.W. Paerl. 2002. Salinity effects on growth, photosynthetic parameters, and nitrogenase activity in estuarine planktonic Cyanobacteria. *Microbial Ecology*. 43:432-442.
- Nielsen, S.S. 2010. *Food Analysis Laboratory Manual*, Food Science Text Series. Springer Science+Business Media, London.
- Nogales, J., S. Gudmundsson., E. M. Knight., B. O. Palsson and I. Thiele. 2012. Detailing the optimality of photosynthesis in cyanobacteria through system biology analysis. *Proceedings of the National Academy of Sciences of The United States of America*. 109: 2678-2683.
- Nwuche, C. O., D. C. Ekpo., C. N. Eze., H. Aoyagi and J. C. Ogbonna. 2014. Use of palm oil mill effluent as medium for cultivation of *Chorella sorokiniana*. *British Biotechnology Journal*. 4: 305-316.
- Olguin, J.O., M. Anilu., E.G.P. Ricardo., and N. Eberto. 2015. Population dynamics in mixed cultures of *Neochloris oleoabundans* and native microalgae from water of a polluted river and isolation of a diatom consortium for the production of lipid rich biomass. *New Biotechnology*, 30: 705-715.
- Ohashi, Y., W. Shi., N. Takatani., M. Aichi., S. Maeda., S. Watanabe., H. Yoshikawa., T. Omata. 2011. Regulation of nitrate assimilation in cyanobacteria. *Journal of Experimental Botany*. 62: 1411-1424.
- Oliveira, M.A.C.L DE., M.P.C. Monteiro., P.G. Robbs., S.G.F. Leite. 1999. Growth and chemical composition of *Spirulina maxima* and *Spirulina platensis* biomass at different temperatures. *Aquaculture International*. 7:261-275.
- Phang, S. M., and K. M. Ong. 1988. Algal Biomass Production in Digested Palm Oil Mill Effluent. *Biological Wastes*. 25: 177-191.

- Putra, K. R. W., A. A. Md. D. Anggreni., dan I. W. Arnata. 2014. *Pengaruh jenis media terhadap konsentrasi biomassa dan klorofil mikroalga Tetraselmis chuii*. Universitas Udayana.
- Rahayu, A. S., D. Karsiwulan., H. Yuwono., I. Trisnawati., S. Mulyasari., S. Raharjo., S. Hokermin dan V. Paramita. 2015. *Konversi POME menjadi biogas*. Winrock International. Jakarta.
- Rangel-Yagui, Carlota de Oliveira., E. D. G. Danesi, J. C. M. de Carvalho., S. Sato. 2004. Chlorophyll production from *Spirulina platensis*: cultivation with urea addition by fed-batch process. *Bioresource Technology* 92:133-141.
- Richmond, A. 2004. *Handbook of Microalgal Culture: Biotechnology and Applied Phycology*. Blackwell Science Ltd. UK.
- Rupani, P. F., R.P. Sigh., M. H. Ibrahim and N. Esa. 2010. Review of current palm oil mill effluent (POME) treatment methods: vermicomposting as a sustainable practice. *World Applied Sciences Journal*. 10: 1190-1201.
- Schubert, H., U. Schiewer., E. Tschirner. 1989. Fluorescence characteristics of cyanobacteria (blue-green algae). *Journal of Plankton Research*. 11: 353-359.
- Sharma, S. 2012. Bioremediation: features, strategies and application. *Asian Journal of Pharmacy and Life Science*. 2: 202-213.
- Sialve, B., N. Bernet and O. Bernard. 2009. Anaerobic digestion of microalgae as a necessary step to make microalgal biodiesel sustainable. *Biotechnology Advances*. 27: 409-416.
- Sukumaran, P., R. Nulit., S. Zulkifly., N. Halimoon., H. Omar and A. Ismail. 2014. Potential of fresh POME as a growth medium in mass production of *Arthrospira platensis*. *International Journal of Current Microbiology and Applied Sciences*. 3: 235-250.
- Tokusoglu, Ö. & M.K. Ünal. 2006. Biomass nutrient profile of three microalgae: *Spirulina platensis*, *Chlorella vulgaris* and *Isochrysis galbana*. *Journal Food Science*. 86: 1144 -1148.
- Turpin, D. H. 1991. Effect of inorganic N availability on algal photosynthesis and carbon metabolism. *Journal of Phycology*. 27:14-20.
- Verla, A. W., P. Adowei and E. N. Verla. 2014. Physicochemical and microbiological characteristic of palm oil mill effluent (POME) in Nguru: Aboh Mbaise, Eastern Nigeria. *Acta Chimica and Pharmaceutica Indica*. 4: 119-125.

- Vonshak, A. S., Boussiba, A. Abeliovich & A. Richmond. 2004. Production of *Spirulina platensis* biomass: Maintenance of monoalgal culture outdoors. *Biotechnology and Bioengineering*. 25:341-349.
- Westerhoff, P., Hu, Q., M. Esparza-Soto., and W. Vermaas. 2010. Growth parameters of microalgae tolerant to high levels of carbon dioxide in batch and continuous-flow photobioreactors. *Environmental Technology*. 31: 523-532.
- Wong, Y. K., Y. H. Ho., H.M. Leung and K. K. L. Yung. 2017. Growth medium screening for *Chorella vulgaris* growth and lipid production. *Journal of Aquaculture and Marine Biology*. 6:143-149.
- Yoo, R.S., W. W. Carmichael., R. C. Hoehn., and S. E. Hrudey. 1995. *Cyanobacterial (blue-green Algal) Toxins: A Resources Guide*. AWWA Research Foundation. America.