DAFTAR PUSTAKA

Afililla, Z., et al., 2020. Inability of Polysaccharides of *Spirulina platensis* to Protect Hepatocyte Cells Line on *Toxoplasma gondii* Infection In Vitro. *Journal of Global Pharma Technology*, 12(1): 654-659.

Akter, T., et al., 2019. Growth Performance Analysis of *Spirulina platensis* Production by Substituting K_2SO_4-K of Kosaric Medium with MOP-K. *Bangladesh Journal of Botany*, 48(3): 529-535.

Alava, D., et al., 1996. The Relevance of The CO_2 Partial Pressure of Sodium Bicarbonate Solutions for The Mass Cultivation of The Microalga *Spirulina*. *Journal of the Brazilian Chemical Society*, 8: 447-450.

Alvarenga, R. R. et al., 2011. Energy Values and Chemical Composition of *Spirulina* (*Spirulina platensis*) Evaluated with Broilers. *Revista Brasileira de Zootecnia*, 40(5): 992-996.

Andritsos, N. et al., (2010). Geothermal Activities in Greece During 2005-2009. *Springer*, 25: 29-34.

Asthary, P.B. et al., 2016. Pertumbuhan Mikroalga *Spirulina platensis* dalam Efluen Industri Kertas. *Jurnal Selulosa*, 3(02): 97-102.

Batac, C. et al., 2020. Evaluation of *Spirulina platensis* in Bicarbonate- Based Integrated Carbon Capture and Algae Production System utilizing different culture media. *ASEAN Journal of Chemical Engineering*, 20: 77-82.

Bhavanath, J. et al., 2009. Seaweed of India: The Diversity and Distribution of Seaweed of The Gujarat Coast. *London: Springer*, 12: 554-559.

Borowitzka, M. A., & Moheimani, N. R., 2013. Algae for Biofuels and Energy. *Springer*, 13(1): 453-458.

Branyikova, I. et al., 2018. Harvesting of Microalgae by Flocculation. *Fermentation*, 4(4): 93-102.

Budiardi, T. et al., 2010. Growth performance and nutrition value of *Spirulina sp*. under different photoperiod. *Jurnal Akuakultur Indonesia*, 9(2): 146-156.

Buwono, N. & Nurhasanah, R., 2018. Studi Pertumbuhan Populasi *Spirulina sp* Pada Skala Kultur Yang Berbeda. *Jurnal Ilmiah Perikanan dan Kelautan*, 10(1): 35-46.

Cahya, N., et al., 2020. Analisis Pertumbuhan *Spirulina sp.* dengan Kombinasi Pupuk yang Berbeda. *Jurnal Sains dan Seni Pomits*, 2 (2): 2337-3520.

Chrismadha, T., 2016. Pengaruh Konsentrasi Nitrogen dan Fosfor Terhadap Pertumbuhan, Kandungan Protein, Karbohidrat dan Fikosianin Pada Kultur *Spirulina fusiformis*. *Research Center for Biology-Indonesian Institute of Sciences*, 8(3): 2006-2027.

Costa, J. et al., 2003. *Spirulina platensis* Growth in Open Raceway Ponds Using Fresh Water Supplemented with Carbon, Nitrogen and Metal Ions. *Zeitschrift fur Naturforschung*. C, *Journal of biosciences*. 58: 76-80.

Danesi, E. D. et al., 2002. An investigation of Effect of Replacing Nitrate by Urea in The Growth and Production of Chlorophyll by *Spirulina platensis*. *Biomass and Bioenergy*, 23(4): 261-269.

De Morais, M. G. & Costa, J. A. V., 2007. Biofixation of Carbon Dioxide by *Spirulina* sp. and *Scenedesmus obliquus* Cultivated in a Three-stage Serial Tubular Photobioreactor. *Journal of Biotechnology*, 129(3): 439-445.

Devanathan, J. et al., 2019. Formulation of New Low Cost Medium for Mass Production of *Spirulina* sp. *Chemistry reports*, 2: 35-45.

DuPont, A., 2012. Best Practices for the Sustainable Production of Algae-based Biofuel in China. *Mitigation and Adaptation Strategies for Global Change*, 18(1): 97-111.

Farida, H. et al., 2019. Outdoor Closed System of Algal Mass Culture : In Sight of Comparison on Vertical and Horizontal Photobioreactor for Cultivating the *Spirulina* sp.. *Reaktor,* 19 :54-61.

Fasaei, F. et al., 2018. Techno-economic evaluation of microalgae harvesting and dewatering systems. *Algal Research*, 31 :10-17.

Formighieri, C., 2015. Environmental Sustainability of Biofuel Production from Algae. *Solar-to-Fuel Conversion in Algae and Cyanobacteria,* 20: 89–93.

Hakim, A.R. 2013. Pengaruh Kombinasi Konsentrasi Media Ekstrak Tauge (MET) dengan Pupuk Urea terhadap Kadar Protein *Spirulina sp*. *Jurnal Sains dan Seni Pomits*, 2(2): 2337-3520.

Halim, R. et al., 2012. Bioprocess Engineering Aspects of Biodiesel and Bioethanol Production from Microalgae. *Advanced Biofuels and Bioproducts*, 13: 601-628.

Hariyati, R., 2012. Pertumbuhan dan Biomassa *Spirulina* sp dalam Skala Laboratoris. *Bioma : Berkala Ilmiah Biologi*, 10(1): 19-27.

Hatia, K. et al., 2016. Efficacy of *Spirulina* as Hepatoprotectant: A Review. *Vegetos- An International Journal of Plant Research*, 29: 129-134.

Hayes, M., 2012. Marine Bioactive Compounds. *Springer*, Boston, MA, 5: 99-113.

Kim, S.K., 2015. Springer Handbook of Marine Biotechnology. *Springer*, 5: 205-217.

Kim, S.K., 2012. Handbook of Marine Macroalgae Biotechnology and Applied Phycology. *Pukyong National University. John Wiley & Sons, Ltd., Publication*, 12(1): 754-759.

Koru, E., 2012. Earth Food *Spirulina* (Arthrospira): Production and Quality Standarts. *Ege University Turkey*, 4(2): 99-113.

Korzynska, A. & Zychowicz, M., 2008. A Method of Estimation of The Cell Doubling Time on Basis of The Cell Culture Monitoring Data. *Biocybernetics and Biomedical Engineering*, 28(4): 75-82.

Kumar, V., 2011. Antibacterial Activity of Crude Extracts of *Spirulina platensis* and Its Structural Elucidation of Bioactive Compound. *Journal of Medicinal Plants Research*, 5(32): 7043-7048.

Kusmayadi, A. et al., 2020. Application of Computational Fluid Dynamics (CFD) on The Raceway Design for The Cultivation of Microalgae: A Review. *Journal of Industrial Microbiology & Biotechnology*, 47(5): 373-382.

Lathifah, W. et al., 2021. Effect of Commercial NPK Fertilizer on Growth and Biomass of *Navicula sp*. and *Nannochloropsis sp*. *IOP Conference Series: Earth and Environmental Science*, 13: 762-762.

Liestianty, D. et al., 2019. Nutritional Analysis of *Spirulina sp* to Promote as Superfood Candidate. *IOP Conference Series: Materials Science and Engineering*, 18: 509-517.

Markou, G. et al., 2012. Effects of Phosphorus Concentration and Light Intensity on The Biomass Composition of *Arthrospira* (*Spirulina*) *platensis*. *World Journal of Microbiology and Biotechnology*, 10: 75-81.

Markou, G., 2012. Alteration of The Biomass Composition of *Arthrospira* (*Spirulina*) *platensis* Under Various Amounts of Limited Phosphorus. *Bioresource Technology*, 116: 533-535.

Mashor, N. et al., 2015. Cultivation of A. *platensis* Based on The Optimum Concentrations of Urea and Triple Super Phosphate, Ammonium Sulfate and Phosphoric Acid, Ammonium Nitrate and Triple Super Phosphate. *Seminar Ekologi Malaysia*, 2: 79-83.

Mathur, M., 2018. Bioactive Molecules of *Spirulina*: A Food Supplement. *Springer*, 10: 1-22.

Michael, A., et al., 2019. Biomass and Nutritive Value of *Spirulina* (*Arthrospira fusiformis*) Cultivated in a Cost-effective Medium. *Annals of Microbiology*, 69(13): 1387-1395.

Mobin S.M.A. & Alam F., 2018 A Review of Microalgal Biofuels, Challenges and Future Directions. *In: Khan M., Chowdhury A., Hassan N. (eds) Application of Thermo-fluid Processes in Energy Systems. Green Energy and Technology*. *Springer*, Singapore. 5: 77-84.

Mojovic, L. et al., 2009. Progress in The Production of Bioethanol on Starch-based Feedstocks. *Chem Eng*., 15: 211-226.

Mosha, S., 2019. The Signifiance of *Spirulina* Meal on Fishmeal Replacement in Aquaculture: A Review. *Springer*. 2: 1-9.

Morais, E. et al., 2018. Evaluation of CO_2 Biofixation and Biodiesel Production by *Spirulina* (*Arthospira*) Cultivated In Air-Lift Photobioreactor. *Brazilian Archives of Biology and Technology*. 61: 88-94.

Muliani, M., et al., 2018. Pengaruh Pemberian Pupuk Kascing (Bekas Cacing) yang Difermentasi dengan Dosis yang Berbeda dalam Kultur *Spirulina sp*., *Acta Aquatica: Aquatic Sciences Journal*, 5(1): 30-35.

Mulokozi, D. et al., 2019. Biomass Production and Growth Performance of Momela Lake's *Spirulina* (*Arthrospira fusiformis*) Cultured Under Urea and N: P: K Fertilizers as Cheaper Nitrogen Sources. *International Journal of Biological and Chemical Sciences*, 13: 861-869.

Munirathna, K.S.P., et al., 2019. Development of Low Cost Mass Culture Media for *Spirulina platensis*. *International Research Conference of UWU*-2019, 1 :123-139.

Panji, T. & Suharyanto, 2001. Optimization Media Low Cost Nutrient Sources for Growing *Spirulina platensis* and Carotenoid Production. *Menara Perkebunan*, 69: 18-28.

Prasadi, O., 2018. Pertumbuhan dan Biomasa *Spirulina sp*. dalam Media Pupuk sebagai Bahan Pangan. *Jurnal Ilmiah Perikanan dan Kelautan*, 10(2) :119-124.

Purnama, A., et al., 2020, Optimizations of Microwave-assisted Extraction and Transesterification of Bio-crude Oil from *Spirulina* (*Arthrospira platensis*), *Korean Journal of Chemical Engineering*, 37(3): 466-474.

Ragaza, J.A. et al., 2020. A Review on *Spirulina*: Alternative Media for Cultivation and Nutritive Value as An Aquafeed. *Aquaculture*, 12(4): 2371-2395.

Rahman, M.A. et al., 2017. Biodiesel Production from Microalgae *Spirulina maxima* by Two Step Process: Optimization of Process Variable. *Journal of Radiation Research and Applied Sciences*, 10(2): 1-8.

Sari, R.E.R., et al., 2018. Perubahan Histopatologi Jaringan Kulit Ikan Komet (*Carassius auratus auratus*) Akibat Infestasi *Argulus Japonicus*, *Jurnal Ilmiah Perikanan dan Kelautan*, 10(1): 1-12.

Shelef, G. & Sukenik, A., 1984. Microalgae Harvesting and Processing : A Literature Review. (0), p.65. *Technion Research and Development. Haifa: Israel*, 15: 99-107.

Sivakumar, M. et al., 2014. Influence of Carbon-dioxide on The Growth of *Spirulina sp.* (MCRC-A0003) Isolated from Muttukadu Backwaters, South India. *World journal of microbiology & biotechnology*, 30: 102-111.

Sukardi, P. et al., 2019. Effect of Land Agricultural Fertilizer on Growth of Marine Single Cell Protein, *Spirulina platensis*, *Chlorella vulgaris* and *Nannochloropsis*. *Omni-Akuatika*, 15(2): 69-75.

Sundermann, A., et al., 2016. Liquid Extraction: Bligh and Dyer. In M. R. Wenk, ed. Encyclopedia of Lipidomics. *Dordrecht:Springer Netherlands*, 12: 1-4.

Susanna, D. et al., 2019. Increasing Productivity of *Spirulina platensis* in Photobioreactors using Artificial Neural Network Modeling. *Biotechnology and Bioengineering*, 116(11): 2960-2970.

Suyono, E. A. et al., 2016. Identification of Microalgae Species and Lipid Profiling of Glagah Consortium for Biodiesel Development From Local Marine Resource. *Journal of Engineering and Applied Sciences*, 11: 9970-9973.

Syaichurrozi, I. & Jayanudin, 2016. Kultivasi *Spirulina Platensis* pada Media Bernutrisi Limbah Cair Tahu dan Sintetik. *JBAT*, 5(2): 68-73.

Trinh, D. V & Nguyen, P.T.H., 2020. Minimising The Cost of *Spirulina platensis* Culture Medium using Vinh Hao Natural Mineral Water. *Chemical Engineering Transactions*, 78: 19-24.

Ulya, S. et al., 2018. Kandungan Protein *Spirulina platensis* pada Media Kultur dengan Konsentrasi Nitrat (KNO_3) Yang Berbeda. *Buletin Oseanografi Marina*, 7(2): 98-102.

Utomo, N.B.P et al., 2005. Growth of *Spirulina platensis* Cultured with Inorganic Fertilizer (Urea, TSP and ZA) and Chicken Manure. *Jurnal Akuakultur Indonesia*, 4: 41-48.

Vo, T.S. et al., 2015. Nutritional and Pharmaceutical Properties of Microalgal *Spirulina*. Handbook of Marine Microalgae: Biotechnology Advances. *Springer*, 10: 299-308.

Werlang, E. et al., 2020. Bioethanol from Hydrolyzed *Spirulina* (Arthrospira *platensis*) Biomass Using Ethanologenic Bacteria. *Bioresources and Bioprocessing*, 7: 27-33.

Wiencke, C. & Bischof, K., 2012. Seaweed Biology. Ecological Studies. *Springer*, 7: 55-74.

Wijayanti, E. et al., 2020. Characterization of *Arthrospira platensis* Cultured in Wastewater of Clarias Catfish Farming Media: DNA Barcode, Helical Form, Growth, and Phycocyanin. *Biodiversitas Journal of Biological Diversity*, 21: 10-14.

Zavřel, T. et al., 2018. Determination of Storage (Starch/Glycogen) and Total Saccharides Content in Algae and Cyanobacteria by A Phenol-Sulfuric Acid Method. *Bio-Protocol*, 8(15): 108-117.

Zhang, F. et al., 2019. Application of *Spirulina* in Aquaculture: A Review on Wastewater Treatment and Fish Growth. *Aquaculture*, 12: 10-17.