

## Daftar Pustaka

- Atima, W. (2015). BOD dan COD sebagai parameter pencemaran air dan baku mutu air limbah. *Jurnal Biology Science & Education*, 4(1), 99–111.
- Benavente-Valdés, J. R., Aguilar, C., Contreras-Esquivel, J. C., Méndez-Zavala, A., & Montañez, J. (2016). Strategies to enhance the production of photosynthetic pigments and lipids in chlorophyceae species. *Biotechnology Reports*, 10(April), 117–125. <https://doi.org/10.1016/j.btre.2016.04.001>
- Bold, H.C. & Wynne, M.J. (1985). *Introduction to The Algae : Structure and Reproduction* 2nd Ed. United State of America: Prentice-Hall Inc. Englewood Cliffs.
- Borowitzka, M.A. & Borowitzka, L.J. (1988). *Microalgal Biotechnology*. Cambridge: Cambridge University Press
- Budiman, A., Suyono, E. A., Dewayanto, N., Dewati, P. R., Pradana, Y. S., & Widawati, T. F. (2023). *Biorefinery Mikroalga* (D. Surani, Ed.). Gadjah Mada University Press
- Brennan, L., & Owende, P. (2010). Biofuels From Microalgae—A Review Of Technologies For Production, Processing, And Extractions Of Biofuels And Co-Products. *Renewable And Sustainable Energy Reviews*, 14(2), 557–577.
- Chisti, Y. (2007). Biodiesel from Microalgae. *Biotechnology Advances*, 25(3), : 294–306.
- Chojnacka, K. (2010). Biosorption And Bioaccumulation - The Prospects For Practical Applications. *Environment International*, 36(3), 299–307. <https://doi.org/10.1016/j.envint.2009.12.001>
- Ghozali, I. (2016). *Aplikasi Analisis Multivariate Dengan Program IBM SPSS 23*. Edisi 8. Semarang: Badan Penerbit Universitas Diponegoro.dd
- Hadiyanto., & Azim, M. (2012). *Mikroalga Sumber Pangan dan Energi Masa Depan*. Edisi Pertama. Semarang: UPT UNDIP Press Semarang.
- Hadiyanto, H., Azimatun Nur, M. M., & Hartanto, G. D. (2012). Cultivation of *Chlorella* sp. As biofuel sources in palm oil mill effluent (POME). *International Journal of Renewable Energy Development*, 1(2), 45–49. <https://doi.org/10.14710/ijred.1.2.45>
- 49
- Hartini, F., Restuhadi, F., & Dahril, T. (2017). Pemanfaatan Mikroalga *Chlorella* sp dalam Menurunkan Baku Mutu Polutan Limbah Cair Industri Sagu Utilization Of

- Hendrawan, A. K. F., Afiati, N., & Rahman, A. (2021). Laju Nitrifikasi pada Bioremediasi Air Limbah Organik Menggunakan *Chlorella* sp. dan Bakteri Nitrifikasi-Denitrifikasi. *Jurnal Pengelolaan Sumberdaya Alam Dan Lingkungan (Journal of Natural Resources and Environmental Management)*, 11(2), 309–323. <https://doi.org/10.29244/jpsl.11.2.309-323>
- Hindarti, F., & Ayuningtyas, E. (2020). The Development of *Spirulina* sp. Cultivation Technique as A Renewable Energy Biomass Source in The Airlift Fotobioreactor. *Jurnal Energi dan Lingkungan*, 16, : 17–24.
- Hu, H. & Gao, K. (2006). Response of Growth and Fatty Acid Compositions of *Nannochloropsis* sp. to Environmental Factors Under Elevated CO<sub>2</sub> Concentration. *Biotechnology Letters*, 28(13), 987–992
- Istirokhatun, T., Aulia, M., & Utomo, S. (2017). Potensi *Chlorella* Sp. untuk Menyisihkan COD dan Nitrat dalam Limbah Cair Tahu. *Jurnal Presipitasi : Media Komunikasi Dan Pengembangan Teknik Lingkungan*, 14 (2), 88. <https://doi.org/10.14710/presipitasi.v14i2.88-96>
- Janie, Dyah Nirmala Arum. (2012). *Statistik Deskriptif & Regresi Linier Dengan SPSS*. Semarang: Semarang University Press.
- Kawaroe, M. T., Prartono, A. Sunuddin dan S.W. Sari. (2010). *Mikroalga: Potensi dan Pemanfaatannya Untuk Produksi Bio Bahan Bakar*. PT. Penerbit IPB Press. Bogor
- Lee, E., Jalalizadeh, M., & Zhang, Q. (2015). Growth Kinetic Models for Microalgae Cultivation: A review. *Algal Research*, 12, 497–512. <https://doi.org/10.1016/j.algal.2015.10.004>
- Lewaru, M.W. 2007. Pengaruh Pemberian Zat Pengatur Tumbuh pada Media Kultur PHM terhadap Kandungan Protein *Chlorella* sp. *Jurnal Aquakultur Indonesia*, 6(1): 37 – 42
- Loke Show, P. (2022). Global Market and Economic Analysis of Microalgae Technology: Status and Perspectives. *Bioresource Technology*, 357, :1–11.
- Metcalf & Eddy. (2003). *Wastewater Engineering: Treatment, Disposal, and Reuse* (Edisi ke-4). New York: McGraw-Hill Book Company Inc

Monod, J. (1949). The Growth of Bacterial Cultures, in *Annual Reviews in Microbiology*, 3, :371-394

Montgomery, DC. 2001. *Design and Analysis of Experiments 5th edition*. New York: John Wiley & Sons, Inc

Montgomery, Douglas C. (2009). *Introduction to Statistical Quality Control* (Edisi keenam). New York: John Wiley & Sons Inc.

Montgomery, D. C. (2013). *Design and Analysis of Experiments* (Eight Edit)

Mufidah, A., Agustono, A., Sudarno, S., & Nindarwi, D. D. (2019). TEKNIK KULTUR *Chlorella* sp. Skala Laboratorium Dan Intermediet Di Balai Perikanan Budidaya Air Payau (Bpbap) Situbondo Jawa TIMUR. *Journal of Aquaculture and Fish Health*, 7(2). <https://doi.org/10.20473/jafh.v7i2.11246>

Muria, S. R., Chairul, & Naomi, D. C. (2020). Pemanfaatan Mikroalga *Chlorella* sp. untuk Pengolahan Palm Oil Mill Effluent [POME] Secara Fed Batch. *Jurnal Sains Dan Teknologi*, 19(1), 7–12.

Oktaviani, Z., & Hendrasarie, N. (2024). Efektivitas Konsorsium Mikroalga *Chlorella* sp . dan Mikroba Indigenous Dalam Menurunkan BOD , COD , dan TN Air Limbah Industri Kecap Menggunakan MBBR. IX(4), 10724–10730.

Prihantini, N. B., Putri, B., & Ratna, R. (2023). Article 8 Recommended Citation Recommended Citation Prihantini, Nining Betawati; Putri, Berta; and Ratna. *Makara Journal of Science*, 9(1).

Phukoetphim, N., Salakkam, A., Laopaiboon, P., & Laopaiboon, L. (2017). Kinetic models for batch ethanol production from sweet sorghum juice under normal and high gravity fermentations: Logistic and modified Gompertz models. *Journal of Biotechnology*, 243, 69–75. <https://doi.org/10.1016/j.jbiotec.2016.12.012>

Vanderman, A. (1998). *Central Composite Design for Response Surface Methodology*. Bogor: Laboratorium Ekologi Hutan Fakultas Kehutanan Institut Pertanian Bogor.

Rachmaniah, O., Setyarini, R. D., & Maulida, L. (2010). Pemilihan Metode Ekstraksi Minyak Alga dari *Chlorella* sp. dan Prediksinya sebagai Biodiesel. Seminar Teknik Kimia Soehadi Reksowardojo.

Ramlee, A., Rasdi, W. N. N. W., Wahid, M. E. A., & Jusoh, M. (2021). Microalgae and the factors involved in successful propagation for mass production. *Journal of Sustainability Science and Management*, 16(3), 21–42.  
<https://doi.org/10.46754/JSSM.2021.04.003>

Richmond, A. (2004) Handbook of Microalgal Culture: Biotechnology and Applied Phycology. Blackwell Science Ltd.

Riduwan. (2009). *Skala Pengukuran Variabel-variabel Penelitian*. Bandung: Alfabeta.

Roberts, K. (2015). Anaerobic Digestion of Marine Microalgae. Thesis, University of Portsmouth.

Rusydi, R., Mahdaliana, M., Ambia, I., Muliani, M., & Hartami, P. (2023). Effectiveness of *Chlorella* sp. in phytoremediation of different wastewater in North Aceh. *Arwana: Jurnal Ilmiah Program Studi Perairan*, 5(2), 118–124.  
<https://doi.org/10.51179/jipsbp.v5i2.1976>

Sagala, D., Frimawaty, E., dan Sodri, A. (2024). Potensi energi terbarukan dari pemanfaatan energi biogas POME (Palm Oil Mill Effluent) sebagai sumber energi terbarukan di Provinsi Jambi. *Jurnal Ilmu Lingkungan*, 22(1), 205-214,  
[doi:10.14710/jil.22.1.205-214](https://doi.org/10.14710/jil.22.1.205-214)

Selvika, Z., Kusuma, A. B., Herliany, N. E., & Negara, B. F. S. . (2016). Pertumbuhan *Chlorella* sp. pada beberapa konsentrasi limbah batubara (The growth rate of the *Chlorella* sp. at different concentrations of coal waste water). *Depik*, 5(3).  
<https://doi.org/10.13170/depik.5.3.5576>

Sheehan, J., Dunahay, J. Benemann, P. Roessler, (1998). A look Back at The U.S. Department of Energy's Aquatic Species Program: Biodiesel from Algae. National Renewable Energy Laboratory: Colorado USA

Soni, R. A., Sudhakar, K., & Rana, R. S. (2017). Spirulina – From Growth to Nutritional Product: A Review. *Trends in Food Science and Technology*, 69, :157–171.

Surtikanti, H.K. (2011). *Toksikologi Lingkungan dan Metode Uji Hayati*. Bandung: Rizqi Press.

Taw, N. (1990). Petunjuk Kultur Murni dan Massal Mikroalga. Proyek Pengembangan Udang. United Nation Development Programme Food and Agriculture Organization of the United Station.

Optimization of isoflavone production from fermented soybean using response surface methodology. *Food Science and Biotechnology*, 20(6), 1525–1531.

<https://doi.org/10.1007/s10068-011-0211-6>

Yonas, R., Irzandi, U., & Satriadi, H. (2012). Pengolahan Limbah Pome ( Palm Oil Mill Effluent ) Dengan Menggunakan Mikroalga. *Jurnal Teknologi Kimia Dan Industri*, 1(1), 7–13.

Zalfiatri, Y., Restuhadi, F., Pramana, A., & Yuliandri, F. (2020). Decreasing Levels of BOD, COD and Oil in Palm Oil Mill Effluent (Pome) Using Scale Up Experiment of Symbiosis Mutualism Technology Between Microalgae *Chlorella* Sp and Agrobost. *Journal of Applied Agricultural Science and Technology*, 4(2), 170–180.

<https://doi.org/10.32530/jaast.v4i2.155>

Zafisah, N. S., Ang, W. L., Johnson, D. J., Mohammad, A. W., & Hilal, N. (2018). Effect of different filter aids used in cake filtration process on the removal of suspended solids in anaerobically digested palm oil mill effluent (POME). *Desalination and Water Treatment*, 110, 362–370. <https://doi.org/10.5004/dwt.2018.22349>