

## DAFTAR PUSTAKA

- Ahmed, Y., Yaakob, Z., Akhtar, P., & Sopian, K. (2015). Production of biogas and performance evaluation of existing treatment processes in palm oil mill effluent (POME). *Renewable and Sustainable Energy Reviews*, 42(February), 1260–1278. <https://doi.org/10.1016/j.rser.2014.10.073>
- Budiman, P. M., & Wu, T. Y. (2016). Ultrasonication pre-treatment of combined effluents from palm oil, pulp and paper mills for improving photofermentative biohydrogen production. *Energy Conversion and Management*, 119, 142–150. <https://doi.org/10.1016/j.enconman.2016.03.060>
- Choong, Y. Y., Chou, K. W., & Norli, I. (2018). Strategies for improving biogas production of palm oil mill effluent (POME) anaerobic digestion: A critical review. *Renewable and Sustainable Energy Reviews*, 82(August), 2993–3006. <https://doi.org/10.1016/j.rser.2017.10.036>
- Desmiarti, R., Rosadi, M. Y., Emeraldi, P., & Hazmi, A. (2021). Integrated evaluation of POME treatment by dielectric barrier discharge based on yield of H<sub>2</sub> and CH<sub>4</sub>, EEM and removal of COD. *Journal of Chemical Engineering of Japan*, 54(5), 255–259. <https://doi.org/10.1252/jcej.20we093>
- Desmiarti, R., Rosadi, M. Y., Hazmi, A., Rahman, M. M., Naldi, N., & Fajri, J. A. (2022). Biogas Production from Palm Oil Mill Effluent Using Dielectric Barrier Discharge Integrated with the Aerated Condition. *Water (Switzerland)*, 14(22), 1–15. <https://doi.org/10.3390/w14223774>
- Desmiarti, R., Utami, N. T., Adios, M., Sakti, O. B., Saputra, D. R., Permata, A. R., Hazmi, A., & Rosadi, M. Y. (2023). The input voltage and reaction time from dielectric barrier discharge treatment affect the biogas production and the reduction of pollutants in palm oil mill effluent. *AIP Conference Proceedings*, 2667(February). <https://doi.org/10.1063/5.0114936>
- Detman, A., Chojnacka, A., Mielecki, D., Błaszczuk, M. K., & Sikora, A. (2018). Inhibition of hydrogen-yielding dark fermentation by ascomycetous yeasts. *International Journal of Hydrogen Energy*, 43(24), 10967–10979. <https://doi.org/10.1016/j.ijhydene.2018.05.004>
- Du, H., & Li, F. (2017). Characteristics of dissolved organic matter formed in aerobic and anaerobic digestion of excess activated sludge. *Chemosphere*, 168, 1022–1031. <https://doi.org/10.1016/j.chemosphere.2016.10.108>
- Eaton, A.D. & Franson, M.A.H., 2005. Standard Methods for the Examination of Water and Wastewater, (21<sup>st</sup> ed.), Washington, DC, USA
- Foong, S. Z. Y., Chong, M. F., & Ng, D. K. S. (2021). Strategies to Promote Biogas Generation and Utilisation from Palm Oil Mill Effluent. *Process Integration and Optimization for Sustainability*, 5(2), 175–191. <https://doi.org/10.1007/s41660-020-00121-y>
- Guo, H., Su, Y., Yang, X., Wang, Y., Li, Z., Wu, Y., & Ren, J. (2023). Dielectric Barrier Discharge Plasma Coupled with Catalysis for Organic Wastewater Treatment: A Review. *Catalysts*, 13(1). <https://doi.org/10.3390/catal13010010>
- Hazmi, A., Desmiarti, R., Emeraldi, P., Hamid, M. I., Edwardo, & Waldi, E. P. (2017). Preliminary study on biogas production from POME by DBD plasma. *Telkomnika (Telecommunication Computing Electronics and Control)*, 15(2), 554–559.

- <https://doi.org/10.12928/TELKOMNIKA.v15i2.5574>
- Hazmi, A., Desmiarti, R., Waldi, E. P., & Darwison. (2013). Removal of microorganisms in drinking water using a pulsed high voltage. *Journal of Engineering and Technological Sciences*, 45 B(1), 1–8. <https://doi.org/10.5614/j.eng.technol.sci.2013.45.1.1>
- Hazmi, A., Desmiarti, R., Waldi, E. P., & Emeraldi, P. (2016). Preliminary study on treatment of palm oil mill effluent by sand filtration-dielectric barrier discharge system. *Journal of Engineering and Technological Sciences*, 48(1), 21–30. <https://doi.org/10.5614/j.eng.technol.sci.2016.48.1.3>
- Hazmi, A., Emeraldi, P., Hamid, M. I., & Desmiarti, R. (2019). Evaluation of COD Removal using Dielectric Barrier Discharge to Produce Biogas from POME. *IOP Conference Series: Materials Science and Engineering*, 543(1), 6–11. <https://doi.org/10.1088/1757-899X/543/1/012052>
- IDS000005613\_ARIADI HAZMI paten DBD.pdf*. (n.d.).
- Irvan, Bambang Trisakti, Michael Vincent, & Yohannes Tandean. (2012). Pengolahan Lanjut Limbah Cair Kelapa Sawit Secara Aerobik Menggunakan Effective Microorganism Guna Mengurangi Nilai Tss. *Jurnal Teknik Kimia USU*, 1(2), 27–30. <https://doi.org/10.32734/jtk.v1i2.1414>
- James, A.A., Rahman, M.R., Huda, D., Rahman, M.M., Uddin, J., Bin Bakri, M.K. & Chanda, A, 2024. Optimization of novel nanocomposite powder for simultaneous removal of heavy metals from palm oil mill effluent (POME) by response surface methodology (RSM). *Environment, Development and Sustainability*, Volume 26, pp. 3589–3615
- Khoiriyah, A., Utami, M. C. T. W., Istadi, I., Kimia, J. T., Teknik, F., Diponegoro, U., Soedarto, J. P., & Fax, T. (2012). Studi Reaktor Plasma Dielectric Barrier Discharge (Dbd) Planar To Planar Untuk Pre-Treatment Konversi Limbah Plastik Polipropilen Menjadi Bahan Bakar Cair. *Jurnal Teknologi Kimia Dan Industri*, 1(1), 213–221.
- Lim, S., Shi, J. L., von Gunten, U., & McCurry, D. L. (2022). Ozonation of organic compounds in water and wastewater: A critical review. *Water Research*, 213(January), 118053. <https://doi.org/10.1016/j.watres.2022.118053>
- Norfadilah, N., Raheem, A., Harun, R., & Ahmadun, F. (2016). Bio-hydrogen production from palm oil mill effluent (POME): A preliminary study. *International Journal of Hydrogen Energy*, 41(28), 11960–11964. <https://doi.org/10.1016/j.ijhydene.2016.04.096>
- Nuraini, E., Fauziah, T., & Lestari, F. (2019). Determination of bod and cod values of liquid waste inlet physical testing laboratory atk yogyakarta polytechnic. *Integrated Lab Journal*, 07(02), 10–15.
- Ohimain, E. I., & Izah, S. C. (2017). A review of biogas production from palm oil mill effluents using different configurations of bioreactors. *Renewable and Sustainable Energy Reviews*, 70(November 2016), 242–253. <https://doi.org/10.1016/j.rser.2016.11.221>
- Pada Pusat Kebijakan Teknologi Pengembangan Wilayah-BPPT, P. (2006). *Analisis Ekonomi Pemanfaatan Limbah Cair Di Kebun Sawit Sei Manding, Riau Maryadi*. 1, 109–115.
- Rosadi, M. Y., Yamada, T., Hudori, H., Tamaoki, H., & Li, F. (2020). Characterization of dissolved organic matter extracted from water treatment

- sludge. *Water Science and Technology: Water Supply*, 20(6), 2194–2205. <https://doi.org/10.2166/ws.2020.120>
- Sato, M. (2009). IJPEST\_Vol3\_No1\_02\_pp008-014. *International Journal of Plasma Environmental Science and Technology*, 3(1), 8–14.
- Sattar, A., Arslan, C., Ji, C., Sattar, S., Mari, I. A., Rashid, H., & Ilyas, F. (2016). Comparing the bio-hydrogen production potential of pretreated rice straw co-digested with seeded sludge using an anaerobic bioreactor under mesophilic thermophilic conditions. *Energies*, 9(3). <https://doi.org/10.3390/en9030198>
- Shairah, N., Shahrifun, A., Ab'lah, N., Hussain, H., Aris, A., Omar, Q., & Ahmad, N. (2015). Characterization of Palm Oil Mill Secondary Effluent (Pomse). *Malaysian Journal of Civil Engineering*, 27(1), 144–151.
- Syahrial, F., Nomura, S., Mukasa, S., Toyota, H., & Okamoto, K. (2015). Synergetic effects of radio-frequency (RF) in-liquid plasma and ultrasonic vibration on hydrogen production from glucose. *International Journal of Hydrogen Energy*, 40(35), 11399–11405. <https://doi.org/10.1016/j.ijhydene.2015.04.152>
- Wang, H., Shen, Y., Lou, Z., Zhu, N., Yuan, H., & Liu, C. (2019). Hydroxyl radicals and reactive chlorine species generation via E<sup>+</sup>-ozonation process and their contribution for concentrated leachate disposal. *Chemical Engineering Journal*, 360, 721–727. <https://doi.org/10.1016/j.ccej.2018.11.213>
- Wang, X., Huang, Q., Ding, S., Liu, W., Mei, J., hunag, Y., Luo, J., Lei, L., & He, F. (2020). Micro hollow cathode excited dielectric barrier discharge (DBD) plasma bubble and the application in organic wastewater treatment. *Separation and Purification Technology*, 240(February), 116659. <https://doi.org/10.1016/j.seppur.2020.116659>
- Wu, B., Zhou, K., He, Y., Chai, X., & Dai, X. (2019). Unraveling the water states of waste-activated sludge through transverse spin-spin relaxation time of low-field NMR. *Water Research*, 155, 266–274. <https://doi.org/10.1016/j.watres.2019.02.031>
- Wu, T. Y., Mohammad, A. W., Jahim, J. M., & Anuar, N. (2010). Pollution control technologies for the treatment of palm oil mill effluent (POME) through end-of-pipe processes. *Journal of Environmental Management*, 91(7), 1467–1490. <https://doi.org/10.1016/j.jenvman.2010.02.008>
- 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.