

DAFTAR PUSTAKA

- Abbasi, T., Tauseef, S. M., & Abbasi, S. A. 2012. *Biogas and Biogas Energy: an introduction*. In *Biogas Energy* (pp. 1-10). Springer, New York, NY
- Ahmad, A. L., Chong, M. F., & Bhatia, S. 2009. *A comparative study on the membrane based palm oil mill effluent (POME) treatment plant*. *Journal of hazardous materials*, 171(1-3), 166-174.
- Anonim. 2016. *Statistik Kelapa Sawit Indonesia*. Jakarta. Tim Advokasi Minyak Sawit Indonesia, Dewan Minyak Sawit Indonesia.
- Anonim. 2021. *Laporan Harian Libo Biogas Factory*. PT. Ivo Mas Tunggal Sinar Mas
- Aslanzadeh, S., dan Ozmen, P. 2009. *Biogas production from municipal waste mixed with different portions of orange peel*.
- Baharuddin, A. S., Wakisaka, M., Shirai, Y., Abd-Aziz, S., Abdul, R., & Hassan, M. A. 2009. *Co-composting of empty fruit bunches and partially treated palm oil mill effluents in pilot scale*. *International Journal of Agricultural Research*, 4(2), 69-78.
- Chaikitkaew, S., Kongjan, P., & Sompong, O. 2015. *Biogas production from biomass residues of palm oil mill by solid state anaerobic digestion*. *Energy Procedia*, 79, 838-844.
- Chavalparit, O., Rulkens, W. H., Mol, A. P. J., & Khaodhair, S. 2006. *Options for environmental sustainability of the crude palm oil industry in Thailand through enhancement of industrial ecosystems*. *Environment, Development and Sustainability*, 8(2), 271-287.
- 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, 2993-3006.
- Departemen Perindustrian. 2007. *Gambaran sekilas industri minyak kelapa sawit*. Sekretariat Jenderal Departemen Perindustrian, Jakarta.
- Direktorat Jenderal Perkebunan. 2019. *Statistik Perkebunan Indonesia. Kelapa Sawit*. Direktorat Jenderal Perkebunan, Jakarta.
- Deublein, D., dan Steinhauser, A. 2008. *Biogas from waste and renewable resources. An Introduction*. WILEYVCH.
- Firmansyah, M. A. 2011. *Peraturan tentang pupuk, klasifikasi pupuk alternatif dan peranan pupuk organik dalam peningkatan produksi pertanian*. Makalah disampaikan pada Apresiasi Pengembangan Pupuk Organik, di Dinas Pertanian dan Peternakan Provinsi Kalimantan Tengah, Palangka Raya, 2-4.

- Gonzalo, A., Sanchez, J. L., Escudero, E., Marin, F., dan Fuertes, R. 2007. *Pulp and paper production from EFB using a semichemical process*. In TAPPI Engineering Pulping and Environmental Conference, Florida, USA.
- Hanum, F., Tambun, R., Ritonga, M. Y., dan Kasim, W. W. 2015. *Aplikasi elektrokoagulasi dalam pengolahan limbah cair pabrik kelapa sawit*. Jurnal Teknik Kimia USU, 4(4), 13-17.
- Haryanti, A., Norsamsi, N., Sholiha, P. S. F., dan Putri, N. P. 2014. *Studi pemanfaatan limbah padat kelapa sawit*. Konversi, 3(2), 57-66.
- Haryanto, A., Sugianti, C., Triyono, S., dan Apria, N. E. 2018. *Biogas production from oil palm empty fruit bunches through dry fermentation process*. Preliminary Results.
- Hasanudin, U., Sugiharto, R., Haryanto, A., Setiadi, T., dan Fujie, K. 2015. *Palm oil mill effluent treatment and utilization to ensure the sustainability of palm oil industries*. Water science and technology, 72(7), 1089-1095.
- Holtzapple, M.T. 2003. Hemicelluloses. In Encyclopedia of Food Sciences and Nutrition. pp. 3060-3071. Academic Press.
- Kim, J. S., Lee, Y. Y., & Kim, T. H. 2016. *A review on alkaline pretreatment technology for bioconversion of lignocellulosic biomass*. Bioresource technology, 199, 42-48.
- Kumar, P., Barrett, D. M., Delwiche, M. J., dan Stroeve, P. 2009. *Methods for pretreatment of lignocellulosic biomass for efficient hydrolysis and biofuel production*. Industrial & engineering chemistry research, 48(8), 3713-3729.
- Loekito, H. 2011. *Teknologi pengelolaan limbah industri kelapa sawit*. Jurnal Teknologi Lingkungan, 3(3).
- McDonald, P., Edwards, R. A., Halgh, J. G., dan Morgan, C. A. 2002. *Animal Nutrition. 6th edn*. Scientific and Technical Co. Published. The United State With John and Sons. Tnc, New York.
- Mustafa, M. Y., Calay, R. K., dan Roman, E. 2016. *Biogas from organic waste-a case study*. Procedia Engineering, 146, 310-317.
- Nasrin, A. B., Ma, A. N., Choo, Y. M., Mohamad, S., Rohaya, M. H., Azali, A., dan Zainal, Z. 2008. *Oil palm biomass as potential substitution raw materials for commercial biomass briquettes production*. American Journal of Applied Sciences, 5(3), 179-183.
- Nieves, D. C., Karimi, K., dan Horváth, I. S. 2011. *Improvement of biogas production from oil palm empty fruit bunches (OPEFB)*. Industrial Crops and Products, 34(1), 1097-1101.

- Nisrina, H., dan Andarani, P. 2018. *Pemanfaatan limbah tahu skala rumah tangga menjadi biogas sebagai upaya teknologi bersih di laboratorium pusat teknologi lingkungan–BPPT*. Jurnal Presipitasi: Media Komunikasi dan Pengembangan Teknik Lingkungan, 15(2), 139-147.
- Perez, J., Munoz-Dorado, J., De la Rubia, T. D. L. R., dan Martinez, J. 2002. *Biodegradation and biological treatments of cellulose, hemicellulose and lignin: an overview*. International microbiology, 5(2), 53-63.
- Rasi, S. 2009. *Biogas composition and upgrading to biomethane (No. 202)*. University of Jyvaskyla.
- Rasit, N., Idris, A., Harun, R., dan Ghani, W. A. W. A. K. 2015. *Effects of lipid inhibition on biogas production of anaerobic digestion from oily effluents and sludges: An overview*. Renewable and Sustainable Energy Reviews, 45, 351-358.
- Risza, S. (2010). Masa Depan Perkebunan Kelapa Sawit Indonesia. Penerbit Kanisius.
- Saelor, S., Kongjan, P., dan Sompong, O. 2017. *Biogas production from anaerobic co-digestion of palm oil mill effluent and empty fruit bunches*. Energy Procedia, 138, 717-722.
- Samuel, P. O. 2015. *Production of Biogas from Perennial and Biennial Crop Wastes: Peach Palm and Banana's Wastes as Alternative Biomass in Energy Generation and Environmental Sustainability*.
- Seadi, T. A., Rutz, D., Prassl, H., Kottner, M., Finsterwalder, T., Volk, S., dan Janssen, R. 2008. *Biogas Handbook*. University of Southern Denmark, Esbjerg, Denmark.
- Siegrist, H., Vogt, D., Garcia-Heras, J. L., dan Gujer, W. 2002. *Mathematical model for meso-and thermophilic anaerobic sewage sludge digestion*. Environmental science & technology, 36(5), 1113-1123.
- Sompong, O., Boe, K., dan Angelidaki, I. 2012. *Thermophilic anaerobic co-digestion of oil palm empty fruit bunches with palm oil mill effluent for efficient biogas production*. Applied Energy, 93, 648-654.
- Sudiyani, Y., Styarini, D., Triwahyuni, E., Sembiring, K. C., Aristiawan, Y., Abimanyu, H., dan Han, M. H. 2013. *Utilization of biomass waste empty fruit bunch fiber of palm oil for bioethanol production using pilot-scale unit*. Energy Procedia, 32, 31-38.
- Suksong, W., Mamimin, C., Prasertsan, P., Kongjan, P., dan Sompong, O. 2019. *Effect of inoculum types and microbial community on thermophilic and mesophilic solid-state anaerobic digestion of empty fruit bunches for biogas production*. Industrial Crops and Products, 133, 193-202.



- Summerscales, J., Dissanayake, N. P., Virk, A. S., dan Hall, W. 2010. *A review of bast fibres and their composites. Part 1–Fibres as reinforcements. Composites Part A: Applied. Science and Manufacturing*, 41(10), 1329-1335.
- Wahyuni, S. 2013. *Panduan praktis biogas*. Penebar Swadaya Grup.
- Warsito, J., Sabang, S. M., dan Mustapa, K. 2016. *Pembuatan pupuk organik dari limbah tandan kosong kelapa sawit*. *Jurnal Akademika Kimia*, 5(1), 8-15.
- Wongfaed, N., Kongjan, P., dan Sompong, O. 2015. *Effect of substrate and intermediate composition on foaming in palm oil mill effluent anaerobic digestion system*. *Energy Procedia*, 79, 930-936.
- Yano, S., Murakami, K., Sawayama, S., Imou, K., dan Yokoyama, S. 2009. *Ethanol production potential from oil palm empty fruit bunches in southeast asian countries considering xylose utilization*. *Journal of the Japan Institute of Energy*, 88(10), 923-926.
- Zhu, L., O'Dwyer, J. P., Chang, V. S., Granda, C. B., dan Holtzapple, M. T. 2008. *Structural features affecting biomass enzymatic digestibility*. *Bioresource technology*, 99(9), 3817-3828.