

## DAFTAR PUSTAKA

- Abduh, Natsir. (2018). *Ilmu dan Rekayasa Lingkungan*. Makassar: SAH MEDIA.
- Abdurahman, M. Iman. (2019). *Analisis Kombinasi Faktor pH, Suhu, dan Rasio Bahan Organik Berbasis Solid State Anaerobic Digestion (SS-AD) terhadap Produksi Biogas dari Limbah Tandan Kosong Kelapa Sawit*. Skripsi, Program Sarjana Universitas Gadjah Mada.
- Agustini, C., da Costa, M., & Gutierrez, M. (2018). Biogas production from tannery solid wastes—Scale-up and cost saving analysis. *Journal of Cleaner Production*, 187, 158-164.
- Al Hakim, H. M. (2013). *Life Cycle Assessment (LCA) Produksi Crude Palm Oil (CPO) Kebun dan Pabrik Kelapa Sawit Pelaihari PT. Perkebunan Nusantara XIII* (Doctoral dissertation, Universitas Gadjah Mada).
- Badan Pusat Statistik. 2022. *Ekspor Minyak Kelapa Sawit Menurut Negara Tujuan Utama, 2012-2021*.  
<https://www.bps.go.id/statistictable/2014/09/08/1026/ekspor-minyak-kelapa-sawit-menurut-negara-tujuan-utama-2012-2021.html> diakses pada 18 Januari 2023
- Badan Pusat Statistik. (2020). *Luas Tanaman Perkebunan Menurut Provinsi*.  
<https://www.bps.go.id/indicator/54/131/1/luas-tanaman-perkebunan-menurut-provinsi.html> Diakses pukul 20.21 WIB tanggal 1 Januari 2022
- Badan Pusat Statistik. (2021). *Statistik Lingkungan Hidup Indonesia 2021: Energi dan Lingkungan* (h.17 & 46). Jakarta: Badan Pusat Statistik.
- Bhatia, S. K., Jagtap, S. S., Bedekar, A. A., Bhatia, R. K., Patel, A. K., Pant, D., ... & Yang, Y. H. (2020). Recent developments in pretreatment technologies on lignocellulosic biomass: effect of key parameters, technological improvements, and challenges. *Bioresource technology*, 300, 122724.
- Chang, S. H. (2014). An overview of empty fruit bunch from oil palm as feedstock for bio-oil production. *biomass and bioenergy*, 62, 174-181.
- Chioria, Rahmadela. A. (2020). *Optimasi Produksi Biogas dari Limbah Tandan Kosong Kelapa Sawit yang Telah Digunakan Sebagai Media Tumbuh Jamur Merang*. Skripsi, Program Sarjana Universitas Gadjah Mada.
- Deepanraj, B., Sivasubramanian, V., & Jayaraj, S. (2017). Effect of substrate pretreatment on biogas production through anaerobic digestion of food waste. *International Journal of Hydrogen Energy*, 42(42), 26522-26528.
- Dewanti, D. P. (2018). Potensi selulosa dari limbah tandan kosong kelapa sawit untuk bahan baku bioplastik ramah lingkungan. *Jurnal Teknologi Lingkungan*, 19(1), 81-88.
- Direktorat Jenderal Perkebunan Kementerian Pertanian Republik Indonesia, 2021. *Statistik Perkebunan Unggulan Nasional 2020-2022*.
- FAO, 2021. Crops and Livestock Products.  
<https://www.fao.org/faostat/en/#data/QCL/visualize> Diakses pada 18 Januari 2023
- Hamdi, (2016). *Energi Terbarukan*. Jakarta: Prenada Media.

- Hauschild, M. Z., Rosenbaum, R. K., & Olsen, S. I. (2018). *Life cycle assessment* (Vol. 2018). Springer International Publishing, Cham. <https://doi.org/10.1007/978-3-319-56475-3>.
- IPCC, 2006c. Guidelines for National Greenhouse Gas Inventories: Energy.
- IPCC. (2013). The physical science basis. *Contribution of working group I to the fifth assessment report of the intergovernmental panel on climate change*, 1535, 2013.
- Kurniawan, M. P., Guritno, A. D., Purwantana, B., & Supartono, W. (2020). Production cost approach and material flow cost accounting as a step towards increasing responsibility, efficiency, and sustainability (RES): the case of palm oil mill in Banten Indonesia. In *IOP Conference Series: Earth and Environmental Science* (Vol. 425, No. 1, p. 012042). IOP Publishing.
- Liew, Z. K., dkk. (2021). Biogas production enhancement by co-digestion of empty fruit bunch (EFB) with palm oil mill effluent (POME): Performance and kinetic evaluation. *Renewable Energy*, 179, 766-777.
- Mamimin, C., Chanthong, S., Leamdum, C., Sompong, O., & Prasertsan, P. (2021). Improvement of empty palm fruit bunches biodegradability and biogas production by integrating the straw mushroom cultivation as a pretreatment in the solid-state anaerobic digestion. *Bioresource Technology*, 319, 124227.
- Nasution, M. A., Wibawa, D. S., Ahamed, T., & Noguchi, R. (2018). Comparative environmental impact evaluation of palm oil mill effluent treatment using a life cycle assessment approach: A case study based on composting and a combination for biogas technologies in North Sumatera of Indonesia. *Journal of Cleaner Production*, 184, 1028-1040.
- Oil Palm Plantation Fund Management Agency (BPDPKS). (2018). *Potensi Limbah Kelapa Sawit Indonesia*. <https://www.bpdp.or.id>. Diakses pukul 9.29 WIB pada Tanggal 27 Oktober 2021
- Pramana, A., Hamzah, A., Haitami, A., & Okalia, D. (2021). Quality Analysis Of "Kosmos" Tkks Compose Using Selulotic Microorganism. *Agrointek: Jurnal Teknologi Industri Pertanian*, 15(3), 830-835.
- Putri, Kartika. S. (2021). *Optimasi Pretreatment Tandan Kosong Kelapa Sawit dengan Natrium Hidroksida (NaOH) dan Pemanasan Microwawe*. Skripsi, Program Sarjana Universitas Gadjah Mada.
- Rahmadi, Hairian. (2021). Pengaruh Perbandingan Campuran 50% Limbah Sawit Dan 50% Kotoran Sapi Terhadap Proses Terjadinya Biogas. *Indonesian Journal of Vocational Mechanical Engineering*, 1(1), 35-40.
- Saka, Timotia I. (2021). *Alkali Pretreatment Pada Tandan Kosong Kelapa Sawit (TKKS) dengan Natrium Hidroksida (NaOH) untuk Meningkatkan Produksi Biogas*. Skripsi, Program Sarjana Universitas Gadjah Mada.
- Saputra, T., Triatmojo, S., & Pertiwinigrum, A. (2010). Produksi Biogas dari Campuran Feses Sapi dan Ampas Tebu (Bagasse) dengan Rasio C/N yang Berbeda (Biogas Production from Mixture of Dairy Manure and Bagasse with Different C/N Ratio). *Buletin Peternakan*, 34(2), 114-122.
- Setiani, Putri. (2020). *Sains Perubahan Iklim*. Jakarta Timur: Bumi Aksara.

- Setiawan, Ibnu T. B. (2018). *Analisis Pengaruh Sumber Mikroorganisme, Total Padatan, dan Pretreatment Terhadap Produksi Biogas dari Tandan Kosong Kelapa Sawit*. Skripsi, Program Sarjana Universitas Gadjah Mada.
- Siburian, Saidal. (2020). *Pencemaran Udara dan Emisi Gas Rumah Kaca*. Jakarta Selatan: Kreasi Cendekia Pustaka.
- Siregar, K., Machsun, A. L., Sholihati, S., Alamsyah, R., Ichwana, I., Siregar, N. C., ... & Setyobudi, R. H. (2020). Life Cycle Impact Assessment on Electricity Production from Biomass Power Plant System Through Life Cycle Assessment (LCA) Method using Biomass from Palm Oil Mill in Indonesia. In *E3S Web of Conferences* (Vol. 188, p. 00018). EDP Sciences.
- Sudradjat, R., Erra, Y., Umi, K., & Evi, K. (2003). Produksi biogas dari limbah pengolahan kelapa sawit dengan proses fermentasi padat. *Jurnal Penelitian Hasil Hutan*, 21(3), 227-237.
- Suksong, W., Tukanghan, W., Promnuan, K., Kongjan, P., Reungsang, A., Insam, H., & Sompong, O. (2020). Biogas production from palm oil mill effluent and empty fruit bunches by coupled liquid and solid-state anaerobic digestion. *Bioresource technology*, 296, 122304.
- USDA, 2023. Oilseeds: World Markets and Trade. Disetujui oleh the World Agricultural Outlook Board/USDA. Diakses pada <https://apps.fas.usda.gov/psdonline/app/index.html#/app/downloads>
- Ventorino, V., Romano, I., Pagliano, G., Robertiello, A., & Pepe, O. (2018). Pre-treatment and inoculum affect the microbial community structure and enhance the biogas reactor performance in a pilot-scale biodigestion of municipal solid waste. *Waste Management*, 73, 69-77.
- Wagiman, Ainuri, M., Kurniawan, M. P., Astari, A. D., & Setiawan, I. T. B. (2020). Analysis of biogas production made from oil palm empty fruit bunches (OPEFB) using anaerobic batch reactor (ABR). In *IOP Conference Series: Earth and Environmental Science* (Vol. 425, No. 1, p. 012033). IOP Publishing.
- Wardoyo, Arianto Y.P. (2016). *Emisi Partikulat Kendaraan Bermotor dan Dampak Kesehatan*. Malang: Universitas Brawijaya Press.
- Xin, Y., Sun, L., & Hansen, M. C. (2022). Oil palm reconciliation in Indonesia: Balancing rising demand and environmental conservation towards 2050. *Journal of Cleaner Production*, 380, 135087.