

DAFTAR PUSTAKA

- Adapa, P., Tabil, L., Schoenau, G., & Opoku, A. (2010). Pelleting characteristics of selected biomass with and without steam explosion pretreatment. *International Journal of Agricultural and Biological Engineering*, 3(3), 62–79.
- Alves, L. S., Moreira, B. R. A., Viana, R. da S., Pardo-Giménez, A., Dias, E. S., Noble, R., & Zied, D. C. 2021. Recycling spent mushroom substrate into fuel pellets for low-emission bioenergy-producing systems. *Journal of Cleaner Production*, 313, 127875.
- Badan Perencanaan Penelitian dan Pengembangan Daerah Kota Sawahlunto. 2025. *Rencana Pembangunan Jangka Menengah Daerah Kota Sawahlunto Tahun 2025–2029*. Sawahlunto: Badan Perencanaan Penelitian dan Pengembangan Daerah Kota Sawahlunto.
- Badan Pusat Statistik Kota Sawahlunto. 2025. *Kota Sawahlunto Dalam Angka 2025*. Sawahlunto: BPS Kota Sawahlunto.
- Badan Pusat Statistik Kota Sawahlunto. 2025. *Statistik Daerah Kota Sawahlunto 2025*. Sawahlunto: BPS Kota Sawahlunto.
- Badan Pusat Statistik Kota Sawahlunto. 2025. *Luas Wilayah Kota Sawahlunto Menurut Kecamatan*. Sawahlunto: BPS Kota Sawahlunto.
- Badan Standardisasi Nasional. (2014). *SNI 8021:2014 Biopellet Kayu*. Jakarta: Badan Standardisasi Nasional.
- Badan Standardisasi Nasional. (2018). *SNI 8675:2018: Pelet Biomassa*. Jakarta: Badan Standardisasi Nasional.
- Bong, C.P.C., Lim, L.Y., Lee, C.T., Ong, P.Y., Klemes, J.J., Li, C., Gao, Y. 2020. Lignocellulosic Biomass and Food Waste for *Biochar* Production and Application: A Review. *Chemical Engineering Transactions*. 81, 427-432.
- Bracmort, K., & Gorte, R. W. (2010). Biomass: Comparison of definitions in legislation. Biomass: Energy Data, Multi-Year Plan and Legislative Definitions, 1–18.
- Braidy, H., Valin, S., & Patisson, F. 2023. Characterization of Sulfur and Chlorine Behavior during Pyrolysis of Biomass and Waste. *Sustainable Energy Fuels*, 7, 3067-3076.
- Cheah, S., Malone, S.C., & Feik, C.J. 2014. Specification of Sulfur in *Biochar* Produced from Pyrolysis and Gasification of Oak and Corn Stover. *Environmental Science & Technology*. 48, 8474-8480.
- Chen, H., Zhang, Z., Yin, S., Zhang, T., Song, T., & Lu, P. (2026). Chlorine in biomass co-firing: A review on migration, transformation, impacts, and mitigation strategies. *Carbon Neutral Technologies*, 2(2), 100022.

- Cholilie, I.A. & Zuari, L. 2021. Pengaruh Variasi Jenis Perekat terhadap Kualitas Biobriket Berbahan Serabut dan Tandan Buah Lontar (*Borrassus flabellifer* L.).
- Dinas Perumahan, Permukiman dan Lingkungan Hidup Kota Sawahlunto. (2023). Laporan Pengelolaan Sampah dan Jakstrada Kota Sawahlunto.
- Fadhilah, R., & Suarantika, S. 2025. Studi Literatur Aktivitas Antioksidan Kulit Buah Nanas (*Ananas comosus* L. Merr). *Bandung Conference Series: Pharmacy*, 5(2).
- Food and Agriculture Organization. (2016). *Forestry for a Low-Carbon Future: Integrating Forests and Wood Products in Climate Change Strategies*. Rome: FAO.
- Ghasemi, A., & Zahediasl. 2012. Normality Tests for Statistical Analysis: A Guide for Non-Statisticians. *International Journal of Endocrinology and Metabolism*, 10(2), 486–489.
- Grover, P. D., & Mishra, S. K. (1996). *Biomass Briquetting: Technology and Practices*. Bangkok: FAO.
- Haiying, L., Ze, Z., Aimin, J., Rongxuan, Z., & Peng, Y. 2017. Behavior of Slagging and Corrosion of Biomass Ash. *Journal of Environmental Engineering Technology*. 7(1), 107-113.
- Harindintwali, J.D., Zhou, J., & Yu, X. 2020. Lignocellulosic Crop Residue Composting by Cellulolytic Nitrogen Fixing Bacteria: A Novel Tool for Environmental Sustainability. *Science of The Total Environment*. 715, 136912.
- Hendra, D., & Winarni, I. 2003. Sifat fisika dan kimia pelet kayu dari limbah industri perkayuan. *Jurnal Penelitian Hasil Hutan*, 21(3), 211–222.
- Herlambang, S., Rina, S., Santoso, P., & Sutiono, H. T. 2017. *Biomassa sebagai Sumber Energi Masa Depan*. Yogyakarta, Gerbang Medika Aksara.
- Jannah, R., Sribudiani, E., & Somadona, S. 2022. Biopelet dari Limbah Biomassa Serbuk Serutan Rotan dan Serbuk Gergaji Campuran Menggunakan Perekat Sagu sebagai Sumber Energi Alternatif. *Wahana Forestra Jurnal Kehutanan*, 17(2), 148-161.
- Jomantas, G., Buinevicius, K., & Sereika, J. 2025. Sulfur Emission Dependence on Various Factors During Biomass Combustion. *Energies*. 18, 1701.
- Kaliyan, N., & Morey, R.V. 2009. Factors Affecting Strength and Density of Densified Biomass Products. *Biomass and Bioenergy*, 33 (3), 337-359.
- Kementerian Lingkungan Hidup dan Kehutanan. 2020. *Pedoman Pengelolaan Sampah Menjadi Energi melalui RDF*. Jakarta: KLHK.
- Kementerian Lingkungan Hidup dan Kehutanan. 2024. *Sistem Informasi Pengelolaan Sampah Nasional (SIPSN) Kota Sawahlunto Tahun 2024*. Jakarta: KLHK.
- Kim, T. K. 2015. T Test as a Parametric Statistic. *Korean Journal of Anesthesiology*, 68(6), 540–546.

- Longo, A., Pacheco, N., Panizio, R., Vilarinho, C., Brito, P., & Goncalves, M. 2024. Carbonization of Refuse-Derived Fuel Pellets with Biomass Incorporation to Solid Fuel Production. *Fuels*, 5, 746-761.
- Obernberger, I., & Thek, G. (2010). *The pellet handbook: The production and thermal utilization of biomass pellets*. London: Earthscan.
- Maj, I., Niesporek, K., Plaza, P., Maier, J., Loj, P. 2025. A Review of Chemical Compositions and Management Trends. *Sustainability*. 17, 4925.
- McKendry, P. 2002. Energy Production from Biomass (part 1): Overview of Biomass. *Bioresource Technology*, 83(1), 37–46.
- Morsnel, A. S. 2024. *Pengaruh Penambahan Jerami Padi Pada Pembuatan Pelet Biomassa Eceng Gondok Menggunakan Metode Teknologi Olah Sampah Di Sumbernya*. Tugas Akhir Sarjana. Departemen Teknik Lingkungan. Universitas Andalas.
- Nielsen, H.P., Frandsen, F.J., Dam-Johansen, K., & Baxter L.L. 2000. The Implications of Chlorine Associated Corrosion on The Operations of Biomass Fired Boilers. *Progress in Energy and Combustion Science*. 26, 283-298.
- Parinduri, L., & Parinduri, T. 2020. Konversi Biomassa sebagai Sumber Energi Terbarukan. *Journal of Electrical Technology*, 5(2), 88-92.
- Pattiruhu, G., Mustamu, S., & Fransz, J. 2024. Analisis Kandungan Sulfur, Nitrogen, dan Klorin dalam Biopellet Berbasis Limbah Padat Kayu Putih dan Gondorukem. *Jurnal MALIKA*, 18 (2), 375-384.
- Pemerintah Kota Sawahlunto. 2025. *Rencana Pembangunan Jangka Panjang Daerah (RPJPD) Kota Sawahlunto Tahun 2005–2025*. Sawahlunto.
- Peta Tematik Indonesia. 2016. *Administrasi Kota Sawahlunto*. Peta Tematik Indonesia.
- Picchio, R., Latterini, F., Venanzi, R., Stefanoni, W., Suardi, A., Tocci, D., & Pari, L. 2020. Technical properties and combustion characteristics of wood pellets produced from different woody biomasses. *Energies*, 13(23), 6463.
- Rosiani, N., Basito, Widowati, E. 2015. Kajian Karakteristik Sensoris Fisika dan Kimia Kerupuk Fortifikasi Daging Lidah Buaya (*Aloe Vera*) dengan Metode Pemanggangan Menggunakan *Microwave Jurnal Teknologi Hasil Pertanian*. 8(2), 84-98.
- Rusyadi, M. A., Bagastyo, A. Y., & Goembira, F. (2025). Potensi pengolahan sampah domestik Kota Sawahlunto menjadi *Refuse Derived Fuel* (RDF). *Jurnal Dampak: Teknik Lingkungan*, 22(2), 42–49.
- Samudro, P.A., Asmara, S. dan Kuncoro, S. 2023. Pengaruh Perbedaan Komposisi dan Ukuran Partikel Batang Singkong dan Batubara terhadap Kualitas Bahan Bakar Briket Biocoal. *Jurnal Agricultural Biosystem Engineering*. 2(2), 270-280.

- Sekretariat Jenderal Dewan Energi Nasional. (2020). *Rencana Umum Energi Nasional (RUEN)*. Jakarta: DEN.
- Setiawan, A., & Riskina, S. 2022. *Teknologi Konversi Biomassa Secara Termokimia Pirolisis*. Syiah Kuala University Press. <https://books.google.co.id/books?id=sAWhEAAAQBAJ&printsec>
- Shojaeiarani, J., Bajwa, D.S., & Bajwa, S.G. 2019. Properties of Densified Solid Biofuels in Relation to Chemical Composition, Moisture Content and Bulk Density of The Biomass. *Bioresources*. 14(2), 4996-5015.
- Stelte, W., Sanadi, A. R., Shang, L., Holm, J. K., Ahrenfeldt, J., & Henriksen, U. B. (2012). Recent Developments in Biomass Pelletization: A review. *BioResources*, 7(3), 4451–4490.
- Sumiati, T., Yuningtyas, S., & Haloho, L.E.BR. 2023. Delignifikasi Lignoselulosa Daun Nanas (*Ananas comosus* (L) Merr) untuk Produksi Alfa Selulosa. *Jurnal Farmamedika*, 8 (2), 130-137.
- Tomoczyx, A., Sokolowska, Z., & Boguta, P. 2020. *Biochar* Physicochemical Properties: Pyrolysis Temperature and Feedstock Kind Effects. *Rev Environ Sci Biotechnol*, 19, 191-215.
- Tumuluru, J. S., Wright, C. T., Hess, J. R., & Kenney, K. L. 2011. A Review of Biomass Densification Systems to Develop Uniform Feedstock Commodities for Bioenergy Application. *Biofuels, Bioproducts and Biorefining*, 5(6), 683–707.
- Tripathi, M., Sahu, J. N., & Ganesan, P. 2016. Effect of Process Parameters on Production of *Biochar* from Biomass Waste Through Pyrolysis: A Review. *Renewable and Sustainable Energy Reviews*, 55, 467–481.
- Ullal, V. N., Shivaramu, H. T., & Aveen, K. P. 2023. Rice Husk Ash Utilization, Composition and Properties: A brief review. *Journal of Metals, Materials and Minerals*. 32(4), 34-46.
- Vassilev, S. V., Baxter, D., Andersen, L. K., & Vassileva, C. G. 2010. An Overview of the Chemical Composition of Biomass. *Fuel*, 89(5), 913–933.
- Weber, K. & Quiecker, P. 2018. Properties of *Biochar*. *Fuel*, 217, 240-261.
- Wei, X., Schnell, U., & Hein, K.R.G., 2005. Behaviour of Gaseous Chlorine and Alkali Metals during Biomass Thermal Utilisation. *Fuel*. 84, 841-848.
- Whitaker, C., dan Shield, I. 2017. Factors Affecting Wood, Energy Grass and Straw Pellet Durability. *Renewable and Sustainable Energy*. 71, 1-17.
- Zikri, A., Erlinawati, & Rusnadi, I. 2015. Uji kinerja rotary dryer berdasarkan efisiensi termal pengeringan serbuk kayu untuk pembuatan biopelet. *Jurnal Teknik Kimia*, 21(2), 50–58.