



DAFTAR PUSTAKA

- Anonim., 2009, *Rice Knowledge Bank*, International Rice Research Institute.
- Badan Pusat Statistik., 2021, *Luas Panen dan Produksi Padi di Indonesia 2020*, Badan Pusat Statistik, no. 22/03, Jakarta.
- Basu, P., 2010, Biomass Gasification and Pyrolysis: Practical Design and Theory, Elsevier Inc.
- Devi, L., 2003, A Review of The Primary Measures for Tar Elimination in Biomass Gasification Processes. *Biomass and Bioenergy*, pp. 125–140.
- Haryadi., 2006, *Teknologi Pengolahan Beras*, 1st ed., Gadjah Mada University Press, Yogyakarta.
- Hernández, J.J., Aranda-Almansa, G. & Bula, A., 2010. Gasification of biomass wastes in an entrained flow gasifier: Effect of the particle size and the residence time. *Fuel Processing Technology*, 91(6), pp.681–692.
- Ilminafik, N., A.O, Frenico., 2016, Karakteristik Api Producer gas pada Gasifikasi Downdraft dengan Bahan Biomassa Sekam Padi, *Rotor*, vol. 9, no. 1.
- Ismunadji, M., 1988, Padi, *Badan Penelitian dan Pengembangan Pertanian*, Buku I, Edisi I.
- Jackson, M.G., 1977., Review Article: The Alkali Treatment of Straws, *Animal Feed Science and Technol*, vol. 2, no. 2, pp. 105-130.
- Joseph, T. Gerald., 1984. Wet Scrubber Plan Review : Self-Instructional Guidebook.
- Kaupp, A. & Goss, J.R., 1981. State of the art report for small scale (to 50 kW) gas producer. *Engine Systems*, pp. 286.
- Lotfi, S., Ma, Weiguo., Austin, K., Kumar, A., 2019, A Wet Packed Bed Scrubber for Removing Tar from Biomass Producer Gas, *Fuel Processing Technology*, pp. 197-203.
- Ma, Z., Ye, J., Zhao, C., Zhang, Q., 2015, Gasification of Rice Husk in a Downdraft Gasifier: The Effect of Equivalence Ratio on The Gasification Performance, Properties, and Utilization Analysis of Byproducts of Char and Tar, *BioResources*, vol. 10. no. 2, pp. 2888-2902.
- Machin, E.B. et al., 2015. Tar Reduction in Downdraft Biomass Gasifier using a Primary Method. *Renewable Energy*, 78, pp. 478-483.
- Nakamura, S., Kitano, S., Yosikawa, K., 2016, Biomass Gasification Process With The Tar Removal Technologies Utilizing Bio-Oil Scrubber and Char Bed, *Applied Energy*, pp. 186-192.
- Perpres Nomor 22 Tahun 2017, Lampiran 1 Perpres Nomor 22 Tahun 2017, Hal. 20.
- Prasad, L., Subbarao, P.M.V., Subrahmanyam, J.P., 2015, Experimental Investigation on Gasification Characteristic of High Lignin Biomass (Pongamia Shells), *Renewable Energy*, vol. 80, pp. 415-423.



- Phuphuakrat, T., Namioka, T., Yoshikawa. K., 2011, Absorptive Removal of Biomass Tar Using Water and Oily Materials, *Bioresource Technology*, pp. 543-549.
- Son, Y. et al., 2011. Gasification and Power Generation Characteristics of Woody Biomass Utilizing a Downdraft *Gasifier*. *Biomass and Bioenergy*, pp.4215–4220.
- Susastriawan, A.A.P., Saptoadi, H., Purnomo., 2018, Comparison of The Gasification Performance in The Downdraft Fixed-Bedgasifier Fed By Different Feedstocks: Rice Husk, Sawdust, And Their Mixture, *Sustainable Energy Technologies and Assessments*, vol. 34, pp. 27–34.
- Monir, M.U., A.A, Azrina., A.K, Rizky., Yousuf, A., 2018, Gasification of Lignocellulosic Biomass to Produce Producer gas in A 50 Kw Downdraft Reactor, *Biomass and Bioenergy*, pp. 335-345.
- Yoon, S.J. et al., 2012. Gasification and power generation characteristics of rice husk and rice husk pellet using a downdraft fixed-bed *gasifier*. *Renewable Energy*, 42, pp.163–167.
- Zubair, A., R.S, Mahendra., Muchtar, A., A.S, Saharin., R.W.D, Wan., 2019, Effect of Particle Size and Temperatur on Gasification Performance of Coconut and Palm Kernel Shells in Downdraft Fixed-Bed Reactor, *Energy*, pp. 931-940.
- Zubair, A., R.S, Mahendra., Muchtar, A., A.S, Saharin., R.W.D, Wan., 2020, Effects of Temperatur on The Chemical Composition of Tars Produced from The Gasification of Coconut and Palm Kernel Shells Using Downdraft Fixed-Bed Reactor, *Fuel*, pp. 116910.