DAFTAR PUSTAKA

Alam, A. K. M. B., Aramaki, N., Tamamura, S., Ueno, A., Murakami, T., Fujii, Y., & Kaneko, K. (2024). Induced oxidation effects on physical and mechanical properties of lignite for sustainable mining via *Subsurface Cultivation And Gasification* method. *Fuel*.

Anderson, T. W., & Darling, D. A. (1952). Asymptotic theory of certain goodness of fit criteria based on stochastic processes. *The Annals of Mathematical Statistics, 23*(2), 193–212.

ASTM International. (2018). *ASTM D167/D167M-18: Standard test method for apparent and true specific gravity and porosity of lump coke*. ASTM International.

ASTM International. (2019). *ASTM D388-19a: Standard classification of coals by rank*. ASTM International.

Bai, Q., Zhang, B., Ma, X., Zhao, S., Fan, J., Fan, Y., & Tang, X. (2025). Research on the modification of the coal pore structure by indigenous microbial degradation. *Sustainability, 17*(8), 3337.

Chen, T., Rodrigues, S., Golding, S. D., & Rudolph, V. (2018). Improving coal bioavailability for biogenic methane production via hydrogen peroxide oxidation. *International Journal of Coal Geology, 195*, 402–414.

Flores, R. M. (2014). *Coal and coalbed gas: Fueling the future*. Elsevier.

Gao, D., Guo, B., Tian, K., Rui, H., & Guo, H. (2022). Impact of microbially enhanced coalbed methane on the pore structure of coal. *Frontiers in Earth Science, 10*, 869917.

Goldstein, J. I., Newbury, D. E., Echlin, P., Joy, D. C., Lyman, C. E., Lifshin, E., Sawyer, L., & Michael, J. R. (2003). Scanning electron microscopy and X-ray microanalysis (3rd ed.).

Hall, R., & Nichols, G. J. (2002). Cenozoic sedimentation and tectonics in Borneo: Climatic influences on orogenesis. In S. J. Jones & L. E. Frostick (Eds.), *Sediment flux to basins: Causes, controls and consequences* (Geological Society, London, Special Publications, Vol. 191, pp. 5–22). Geological Society of London

Hamza, A., Hussein, I. A., Al-Marri, M. J., Mahmoud, M., Shawabkeh, R., & Aparicio, S. (2021). CO_2 *Enhanced* gas recovery and sequestration in depleted gas reservoirs: A review. *Journal of Petroleum Science and Engineering, 196*, 107685.

Haq, S. R., Tamamura, S., Igarashi, T., & Kaneko, K. (2018). Characterization of organic substances in lignite before and after hydrogen peroxide treatment: Implications for *Microbially Enhanced* coalbed methane. *International Journal of Coal Geology, 185*, 1–11.

Heryanto, R., & Panggabean, H. (2013). Geologi Cekungan Barito dan potensi batubara Formasi Warukin, Kalimantan Selatan. *Jurnal Geologi dan Sumberdaya Mineral*.

Kang, Y., Tu, Y., You, L., Li, X., & Huang, F. (2019). An experimental study on oxidizer treatment used to improve the seepage capacity of coal reservoirs. *Natural Gas Industry B, 6*(2), 129–137.

Kementerian Energi dan Sumber Daya Mineral Republik Indonesia. (2021). Peraturan Menteri Energi dan Sumber Daya Mineral Nomor 35 Tahun 2021 tentang Tata Cara Penetapan dan Penawaran Wilayah Kerja Minyak dan Gas Bumi.

Levene, H. (1960). Robust tests for equality of variances. In I. Olkin (Ed.), *Contributions to probability and statistics* (pp. 278–292). Stanford University Press.

Liu, D., Qiu, F., Liu, N., Cai, Y., Guo, Y., Zhao, B., & Qiu, Y. (2022). Pore structure characterization and its significance for gas adsorption in coals: A comprehensive review. *Unconventional Resources, 2*, 139–157.

Nursanto, E., & Ilcham. (2018). Characteristic of *low rank coal* from Warukin Formation. *Journal of Physics: Conference Series*.

Papendick, S. L., Downs, K. R., Vo, K. D., Hamilton, S. K., Dawson, G. K. W., Golding, S. D., & Gilcrease, P. C. (2011). Biogenic methane potential for Surat Basin, Queensland coal seams. International Journal of Coal Geology, 88(2–3), 123–134.

Rahayu, S., dkk. (2016). Oxidation characteristics of *low rank coal* using hydrogen peroxide solution. *Indonesian Mining Journal*.

Robert, U. W., Etuk, S. E., & Agbasi, O. E. (2019). Bulk volume determination by modified water displacement method. *Iraqi Journal of Science, 60*(8), 1704–1710.

Ritter, D., Vinson, D., Barnhart, E., Akob, D. M., Fields, M. W., Cunningham, A. B., & Orem, W. (2015). *Enhanced* microbial coalbed methane generation: A review of research, commercial activity, and remaining challenges. *International Journal of Coal Geology, 146*, 28–41.

SAS Institute. (2021). *SAS/STAT user's guide*. SAS Institute Inc.

Satterthwaite, F. E. (1946). An approximate distribution of estimates of variance components. Biometrics Bulletin, 2(6), 110–114

Satyana, A. H., & Silitonga, P. D. (1994). Tectonic evolution of the Barito Basin, Southeast Kalimantan. *Proceedings of Indonesian Petroleum Association*.

Scott, A. R. (1999). Improving coal gas recovery with microbially enhanced coalbed methane. In M. Mastalerz, M. Glikson, & S. D. Golding (Eds.), Coalbed methane: Scientific, environmental and economic evaluation (pp. 89–110).

Shapiro, S. S., & Wilk, M. B. (1965). An analysis of variance test for normality (complete samples). *Biometrika, 52*(3–4), 591–611.

Speight, J. G. (2013). *The chemistry and technology of coal* (3rd ed.). CRC Press.

Stevens, S. H., & Hadiyanto. (2004, October). Indonesia: Coalbed methane indicators and basin evaluation (SPE-88630-MS) [Paper presentation]. SPE Asia Pacific Oil and Gas Conference and Exhibition, Perth, Australia. Society of Petroleum Engineers.

Tamamura, S., dkk. (2016). *Subsurface Cultivation And Gasification* method for *Biogenic* methane production from lignite. *International Journal of Coal Geology*.

Van Bemmelen, R.W. (1949) The Geology of Indonesia, Vol. IA: General Geology of Indonesia and Adjacent Archipelagos. U.S. Government Printing Office, Washington DC.

Wang, M., Li, Y., Zhang, Y., Hu, X., Li, Q., Su, Y., & Zhao, W. (2021). Exploration of the H_2O_2 oxidation process and characteristic evaluation of humic acids from two typical lignites. *ACS Omega, 6*(37), 24051–24061.

Witts, D., Hall, R., Nichols, G., & Morley, C. K. (2011). A new depositional and provenance model for the Tanjung Formation and Barito Basin, SE Kalimantan, Indonesia. *Journal of Asian Earth Sciences*.

Xiong, Y., dkk. (2020). Structural evolution of low-rank coal during H_2O_2 oxidation and formation of water-soluble organic matter. *Fuel Processing Technology, 199*, 106484.

Yao, Y., Liu, D., Che, Y., Tang, D., Tang, S., & Huang, W. (2009). Petrophysical characterization of coals by low-field nuclear magnetic resonance (NMR). *Fuel, 88*(7), 1371–1380.

Zhao, Y., Meng, Y., Li, K., Zhao, S., & Ma, H. (2023). Micropore structure changes in response to H_2O_2 treatment of coals with different ranks: Implications for oxidant stimulation enhancing CBM recovery. *Natural Resources Research, 32*, 2159–2177.