

## DAFTAR PUSTAKA

- Ahmaruzzaman, M., 2010. A review on the utilization of fly ash. *Progress in energy and combustion science*. 36(3), 327-363.
- Amijaya, H., 2005. *Paleoenvironmental, paleoecological, and thermal metamorphism implications on the organic petrography and organic geochemistry of Tertiary Tanjung Enim Coal, South Sumatra Basin, Indonesia*. Dissertation, Aachen University, pp.171
- Anggara, F., Cikasimi, M., Rahmat, B., Wibisono, S.A. and Susilawati, R., 2019. Karakteristik dan genesa pengayaan unsur-unsur tanah jarang pada batubara Lapangan Batubara Muara Tiga Besar Utara, Tanjung Enim, Cekungan Sumatera Selatan. *Buletin Sumber Daya Geologi*. 14(3), 198-212.
- Anggara, F., Amijaya, D. H., Harijoko, A., Tambaria, T. N., Sahri, A. A., and Asa, Z. A., 2018. Rare earth element and yttrium content of coal in the Banko coalfield, South Sumatra Basin, Indonesia: Contributions from tonstein layers, *International Journal of Coal Geology*. 196, 159-172.
- Anggara, F and Petrus, H.T.B.M., 2015. Potential source of rare earth element (REE) from Sangatta coal, Kutai basin, Indonesia, *Proceeding the 32nd Annual Meeting of the Society for Organic Petrology* (Tidak diterbitkan).
- ASTM D-2797. Standard Practice for Preparing Coal Samples for Microscopical Analysis by Reflected Light.
- ASTM D-3174. Standard Test Method for Ash in the Analysis Samples of Coal and Coke from Coal.
- Balaram, V., 2019. Rare earth elements: A review of applications, occurrence, exploration, analysis, recycling, and environmental impact. *Geoscience Frontiers*. 10(4), 1285-1303.
- Besari, D.A.A., 2018. *Komponen Penyusun dan Model Keterdapatan Rare Earth Elements and Yttrium (REY)*. Skripsi, Universitas Gadjah Mada, unpublished.
- Bhatt, A., Priyadarshini, S., Mohanakrishnan, A. A., Abri, A., Sattler, M., and Techapaphawit, S., 2019. Physical, chemical, and geotechnical properties of coal fly ash: A global review. *Case Studies in Construction Materials*. 11, e00263.
- Blissett, R.S., Smalley, N., and Rowson, N.A., 2014. An investigation into six coal fly ashes from United Kingdom and Poland to evaluate rare earth element content. *Fuel*. 119, 236-239.
- Buhre, B. J. P., Hinkley, J. T., Gupta, R. P., Nelson, P. F., and Wall, T. F., 2006. Fine ash formation during combustion of pulverised coal-coal property impacts. *Fuel*. 85(2), 185-193.
- Chiang, P. C and Pan, S. Y., 2017. Fly Ash, Bottom Ash, and Dust. *Carbon Dioxide Mineralization and Utilization*. 253-264.
- Dai, S., Jiang, Y., Ward, C.R., Gu, L., Seredin, V. V., Liu, H., Zhou, D., Wang, X., Sun, Y., Zou, J., Ren, D., 2012. Mineralogical and geochemical composition of the coal in the Guanbawansu Mine, Inner Mongolia, China: Further evidence for the existence of an Al (Ga and REE) ore deposit in the Jungar Coalfield. *Int. J. Coal Geol.* 98, 10-40.
- Dai, S., Zhao, L., Peng, S., Chou, L., Wang, X., Zhang, Y., Li, D., and Sun, Y., 2010. Abundances and distribution of minerals and elements in high- alumina coal fly ash from the Jungar Power Plant, Inner Mongolia. *Int. J. Coal Geol.* 81, 320-332.
- Darman, H and Sidi, H.F., 2000. *An Outline of the Geology of Indonesia*.

Jakarta: Ikatan Ahli Geologi Indonesia, pp 23-27

- Ditjen Minerba, 2019. *Laporan Kinerja Tahun 2019*. Jakarta : Direktorat Jenderal Mineral dan Batubara Kementerian Energi dan Sumberdaya Mineral.  
<https://esdm.go.id/assets/media/content/content-laporan-kinerja-ditjen-minerba-2019.pdf> (diakses pada 5 Januari 2021).
- Doležal, J., Schindler, Z., Fidler, J., and Matoušek, O., 1990. Turboprop engine behaviour modelling based on optimization approach. *System Modelling and Optimization*, pp 919-928.
- Font, O., Moreno, N., Querol, X., Izquierdo, M., Álvarez, E., Diez, S., and Peña, F. G. (2010). X-ray powder diffraction-based method for the determination of the glass content and mineralogy of coal (co)-combustion fly ashes. *Fuel*. 89(10), 2971-2976.
- Franus, W., Wiatros-Motyka, M.M., and Wdowin, M., 2015. Coal fly ash as a resource for rare earth elements. *Environ. Sci. Pollut. Res.* 22, 9464-9474.
- Helble, J. J., Srinivasachar, S., and Boni, A. A., 1990. Factors influencing the transformation of minerals during pulverized coal combustion. *Progress in Energy and Combustion Science*. 16(4), 267-279.
- Hower, J.C., 2012. Petrographic examination of coal-combustion fly ash. *Int. J. Coal Geol.* 92, 90-97.
- Hower, J.C., Groppo, J.G., Graham, U.M., Ward, C.R., Kostova, I.J., Maroto- Valer, M.M., and Dai, S., 2017. Coal-derived unburned carbons in fly ash : A review. *Int. J. Coal Geol.* 179, 11-27.
- Ketris, M., Yudowich, Y., Estimations of clarkes for carbonaceous biolithes :world averages for trace element content in black shales and coals. *Int. J. Coal Geol.* 78 (2), 135-148.
- Kolker, A., Scott, C., Hower, J. C., Vazquez, J. A., Lopano, C. L., and Dai, S., 2017. Distribution of rare earth elements in coal combustion fly ash, determined by SHRIMP-RG ion microprobe. *International journal of coal geology*. 184, 1-10.
- Lin, R., Howard, B. H., Roth, E. A., Bank, T. L., Granite, E. J., and Soong, Y., 2017. Enrichment of rare earth elements from coal and coal by-products by physical separations. *Fuel*. 200, 506-520.
- Meawad, A. S., Bojinova, D. Y., and Pelovski, Y. G., 2010. An overview of metals recovery from thermal power plant solid wastes. *Waste management*. 30(12), 2548-2559.
- Mursalin, A., 2020. *Komponen penyusun dan moda ketedapatan rare earth elements and yttrium (REY) pada coal ash : Studi kasus pada Batubara Senakin, Kalimantan Selatan, Indonesia*. Skripsi, Universitas Gadjah Mada, unpublished.
- Pandian, N. S., 2004. Fly ash characterization with reference to geotechnical applications. *Journal of the Indian Institute of Science*. 84(6), 189.
- Peraturan Pemerintah Republik Indonesia Nomor 22 Tahun 2021 tentang Penyelenggaraan Perlindungan dan Pengelolaan Lingkungan Hidup.
- Pujobroto, A. 1997. *Organic petrology and geochemistry of Bukit Asam coal, South Sumatra, Indonesia*. Doctor of Philosophy thesis. School of Geosciences, University of Wollongong. <http://ro.uow.edu.au/theses/1975>, pp.1-266
- Ram, L. C., and Masto, R. E., 2010. An appraisal of the potential use of fly ash for reclaiming coal mine spoil. *Journal of Environmental Management*. 91(3), 603-617.

- Ranjbar, N and Kuenzel, C., 2017. Cenospheres: A review. *Fuel*. 207, 1-12.
- Sahoo, P. K., Kim, K., Powell, M. A., & Equeenuddin, S. M., 2016. Recovery of metals and other beneficial products from coal fly ash: A sustainable approach for fly ash management. *International Journal of Coal Science & Technology*. 3(3), 267-283.
- Shell Mijnbouw, N.V., 1978. Explanatory Notes to the Geological Map of South Sumatran Coal Province (unpublished), pp.1-31
- Seredin, V.V and Dai, S., 2012. Coal deposits as potential alternative sources for lanthanides and yttrium, *Int. J. Coal Geol.* 94, 67–93.
- Sommerville, R., Blissett, R., Rowson, N., & Blackburn, S., 2013. Producing a synthetic zeolite from improved fly ash residue. *International Journal of Mineral Processing*. 124, 20-25.
- Spliethoff, H., 2010. *Power generation from solid fuels*. Springer science & business media.
- Susilawati, R. and Ward, C.R., 2006. Metamorphism of mineral matter in coal from the Bukit Asam deposit, South Sumatra, Indonesia. *International Journal of Coal Geology*. 68, 171-195.
- Van Dyk, J. C., Keyser, M. J., and Coertzen, M., 2006. Syngas production from South African coal sources using Sasol–Lurgi gasifiers. *International Journal of Coal Geology*. 65(3-4), 243-253.
- Vassilev, S.V and Vassileva, C.G.J.F., 2007. A new approach for the classification of coal fly ashes based on their origin, composition, properties, and behaviour. *Fuel Process. Technol.* 86(10-11), 1490–1512.
- Wu, H., Bryant, G., Benfell, K., and Wall, T., 2000. An experimental study on the effect of system pressure on char structure of an Australian bituminous coal. *Energy & Fuels*. 14(2), 282-290.
- Yan, L., Gupta, R. P., and Wall, T. F., 2002. A mathematical model of ash formation during pulverized coal combustion. *Fuel*. 81(3), 337-344.