



DAFTAR PUSTAKA

- Anggayana, K., Zahar, W., Widayat, H.W., Dwiantoro., 2015, *Studi Parameter Penentu Cokeability Batubara Formasi Batu Ayau Kalimantan Tengah Berdasarkan Hasil Analisis Crucible Swelling Number, Proxumate, Total Sulphur dan Calorific Value*, Prosiding TPT XXIV dan Kongres IX PERHAPI 2015.1-10 p.
- ASTM, 1977, *Gaseous Fuel; Coal and Coke; Atmospheric Analysis*, American Society For Testing and Materials 26, 429 p.
- Badan Koordinasi Survey dan Pemetaan Nasional., 2004, *Peta Rupa Bumi Indonesia, Skala Peta 1:250.000*, Lembar 2414 Lekosula.
- Boggs, Jr.S., 2006. *Principle Of Sedimentology and Stratigraphy*, Pearson Prentice Hall, United States of America, 662 p.
- Clark, C.P., Freeman, G.B., Hower, J.C., 1984, *Non-Matrix Corrected Organic Sulphur Determination by Energy Dispersive X-Ray Spectroscopy For Western Kentucky Coals and Residues, Scanning Electron Microscopy II*, 537-545 p.
- Chelgani, S.C., Hower, J.C., Hart, B., 2011. *Estimation of free-swelling index based on coal analysis using multivariable regression and artificial neural network, Fuel Process. Journal Fuel Processing Technology* 92, Elsevier, 349-355 p.
- Daulay, B., Santoso, B., Ningrum, N.S., 2015, *Evaluation of Selected High Rank Coal in Kutai Basin, East Kalimantan Relating to Its Coking Properties*, Indonesian Mining Journal, v. 18, No. 1, p. 1-10
- Diaz-Faes, E., Barriocanal, C., Diez, M.A., Alvarez, R., 2007, *Applying TGA Parameters in Coke Quality Prediction Model*, Journal of Analytical and Applied Pyrolysis 79, Elsevier, p. 154-160.
- Diessel, C.F.K. 1992. *Coal-Bearing Depositional System*. Thompson Press (India) Ltd., New Delhi, 679 p.
- Diez, M.A., Alvarez, C., Barriocanal, C. 2002. *Coal for metallurgical coke production: predictions of coke quality and future requirements for cokemaking*, International Journal of Coal Geology 50, 389-412 p.
- Hamilton, W., 1973, *Tectonics of the Indonesian Region. Geol. Soc. Malaysia*, 6: 3-10 p.



Hamilton, W., 1979. Tectonics of the Indonesian Region. *United Geological Survey Professional*. 1078 p.

McCabe, P.J., 1984, *Depositional Environments of Coal and Coal-Bearing Strata*, The International Association of Sedimentologists 7, p. 13-42.

Huda, M., 2013, *Potensi Coking Coal Indonesia Untuk Mendukung Industri Peningkatan Nilai Tambah (PNT) Mineral*, Pusat Penelitian dan Pengembangan Teknologi Mineral dan Batubara “tek-MIRA”, Bandung, v. 11, 44-53 p.

Hower, J.C., Eble, C.F., 1996, *Coal Quality-Qoal Utilization Link Often ‘Undersated’ in Discussion*, National Coal Leader 30, 12 p.

International Committee for Coal and Organic Petrology (ICCP), 2001, *The New Inertinite Classification (ICCP System 1994)*: Fuel Vol. 80, 459-471 p.

International Committee for Coal and Organic Petrology (ICCP), 1998, *The New Vitrinite Classification (ICCP System 1994)*: Fuel Vol. 77, No. 5, 349-358 p.

Khorami, M.T., Chelgani, S.C., Hower, J.C., Jorjani, E., 2011, *Studies of relationships between Free Swelling Index (FSI) and coal quality by regression and Adaptive Neuro Fuzzy Inference System*, International Journal of Coal Geology 85, , Elsevier, 65–71 p.

Khoshjavan, S., Rezai, B., Heidary, M., 2011. *Evaluation of effect of coal chemical properties on coal swelling index using artificial neural networks*, Expert Systems with Applications 38, Elsevier, 12906-12912 p.

Klompe, Th. H.F., 1954. *The structural importance of the Sula Spur (Indonesia)*. Indonesian Journal for Natural Science, 1-3, 21-40 p.

Kusnama., 2008. *Fasies dan lingkungan pengendapan Formasi Bobong berumur Jura sebagai pembawa lapisan batubara di Taliabu, Kepulauan Sanana-Sula, Maluku Utara*, Jurnal Geologi Indonesia Vol. 3, 161-173 p.

Kustituanto, B., Badarudin, R., 1994, *Statistika 1*, Gunadarma, Jakarta, 368 p

Leeder, R., Kolijin, C., Giroux, L., Todoschuk, T., 2011, *Deterioration of Coking Coal Quality in Sample and Stockpile*, The Canadian Carbonization Research Association (CCRA), METEC Conference, 1-9 p.



- Loison, R., Foch, P., dan Boyer, A., 1989, *Coke Quality and Production*, London: Butterworth & Co (Publisher) Ltd, 555 p.
- McCabe, P.J., 1984, *Depositional Environments of Coal and Coal-Bearing Strata*, The International Association of Sedimentologists 7, p. 13-42.
- Miller, B.G., 2005, *Coal Energy Systems*, Elsevier Academic Press, USA, 526 p.
- Metcalfe, I., 1990. Allochthonous terrane processes in Southeast Asia *Transactions of the Royal Society of London*, A331, 625-640 p.
- Mora, S., Ashari, Untung., Wiweko, A. 2004. *Lower Kutai Basin Synthesis*. Laporan Internal Total E&P Indonesia, 42-110 p.
- Moss, S.J., Chambers, J.L., 1999. *Tertiary Facies Architecture in the Kutai Basin, Kalimantan, Indonesia*, *Journal of Asian Earth Sci* 17, 157-181 p.
- Nomura, S., Nakagawa, T., 2016, *The Yield of Coke Oven Gas From Hard and Semi-soft Coking Coals*, International Journal of Coal Geology 168, Elsevier, p. 179-185.
- Ngadenin., 2016, *Kajian Geologi, Radiometri, dan Geokimia Granit Banggai dan Formasi Bobong Untuk Menentukan Daerah Potensial Uranium Di Pulau Taliabu, Maluku Utara*, Jurnal Eksplorium Pusat Teknologi Bahan Galian Nuklir, 13-26 p.
- Nugroho B.A., 2005, *Strategi Jitu Memilih Metode Statistik Penelitian Dengan SPSS*, C.V. Andi Offset (Penerbit Andi), Yogyakarta, 142 p.
- Oktaviani, M.A., dan Notobroto, H.B., 2014, *Perbandingan Tingkat Konsistensi Normalitas Distribusi Metode Kolmogorov-Smirnov, Liliefors, Shapiro-Wilk dan Skewness-Kurtosis*, Jurnal Biometrik dan Kependudukan, v. 3, no. 2, p. 127-135.
- Paludi, S., 2009, *Identifikasi dan Pengaruh Keberadaan Data Pencilan (outlier)*, Majalah Ilmiah Panorama Nusantara VI, p. 56-62.
- Rees, O. W., 1966, "Chemistry, Uses, and Limitations of Coal Analysis," *Illinois State Geological Survey Report of Investigations* No. 220, Urbana, 13 p.
- Riddell, J., dan Han, T., 2017, *Ash Chwmistry Database For British Columbia Rocky Mountain Bituminous Coals*, British Columbia Geological Survey 10, 15 p.



Rilley, J.T., 2007, *Routine Coal and Coke Analysis: Collection, Interpretation, and Use of Analytical Data*, ASTM International, 84-92 p.

Ryan, B., Gransden J., dan Price, J., 1998, *Fluidity of Western Canadian and Its Relationship to Other Coal and Coke Properties*, British Columbia Geological Survey, 17 p.

Sarwono, J., 2017, *Mengenal Prosedur – Prosedur Popula Dalam SPSS 23*, PT. Gramedia, Jakarta, 272 p.

Satyana, A.H., Zaitun. S., 2016, *Origins Of Oils and Gases At Banggai-Sula Microcontinent, Eastern Sulawesi-North Moluccas: Constraints From Biomarkers and Isotope Geochemistry – Implications For Further Exploration of Cenozoic and Pre-Cenozoic Objectives*, Proceedings, Indonesian Petroleum Association, 1-27 p.

Smith J.R., dan Smith, J.W., 2007, *A Realationship Between The Carbon and Hydrogen Content of Coals and Their Vitrinite Reflectance*, International Journal of Coal Geology 70, Elsevier, p. 79-86.

Simanjuntak, T.O., Barber, A.J., 1996. *Contrasting tectonic styles in the Neogene Orogenic Belts of Indonesia*. Dalam: Hall, R. & Blundell, D. (eds.): *Tectonic Evolution of Southeast Asia*. Geological Society Special Publication, 106 p.

Silver, E.A., 1977. The Sula Spur Enigma. *Geological Society of America Abstract*, 9 (7), 1175 p.

Suarez Ruiz, I., Crelling, C.J., 2008, *Applied Coal Petrology*, Elsevier, 388 p.

Suganal., Supriatna, W., Rustomo, G., Paidi., Yuyu, E., 2009. *Operasi Protype Plant Kokas*, Puslitbang Teknologi Mineral Dan Batubara, Bandung, 39 p.

Suganal., 2009, *Pembuatan dan Prospek Keekonomian Kokas Pengecoran dari Batubara dengan Kadar Abu Rendah Kalimantan Selatan*. Puslitbang Teknologi Mineral Dan Batubara, Bandung, 38-49 p

Suganal, 2011, *Kokas Dari Batubara Non Coking: Menghilangkan Ketergantungan Kokas Impor*, MdanE, v. 9, p. 18-26.

Sukandarrumidi, 2014. *Batubara Dan Gambut*, Gadjah Mada University Press, Yogyakarta, 150 p.



- Supandjono, J.B. dan Haryono, E., 1993 . *Peta Geologi Lembar Banggai, Maluku Utara, skala 1:250.000.* Pusat Penelitian dan Pengembangan Geologi, Bandung.
- Surono dan Sukarna, D., 1993. *Peta Geologi Lembar Sanana, Maluku, skala 1:250.000.* Pusat Penelitian dan Pengembangan Geologi, Bandung.
- Sukamto, R. 1975a. *Peta Geologi Indonesia, Ujung Pandang, skala 1:1000.000, Lembar V111.* Direktorat Geologi, Bandung
- Sukamto, R. 1975b. *The structure of Sulawesi in the light of plate tectonics. Association Indonesian Geologists.* Regional Conference on Geology and Mineral Resources of Southeast Asia, 25 p.
- Shui, H., Li, H., Chang, H., Wang, Z., Gao, Z., Lei, Z., Ren, S., 2011. Modification of Sub-Bituminous Coal By Steam Treatment : Caking and Coking Properties. *Fuel Processing technology.* Elsevier. v. 92. p. 2299-2304.
- Speight, J.G., 1994, *The Chemistry and Technology of Coal*, CRC Press, Berkeley California, , 217-229 p.
- Speight, J., 2013, *The Chemistry and Technology of Coal*, New York: Taylor & Francis Group, LLC. 807 p.
- Speight, J.G., 2005, *Handbook of Coal Analysis*, John Wiley and Sons, Inc., Hoboken, New Jersey, 222 p.
- Sykorova, I., Pickel, W., Christianis, K., Wolf, M., Taylor, G.H., Flores, D., 2005, *Classification of Huminite – ICCP System 1994*, International Journal of Coal Geology 62, Elsevier, p. 85-106.
- Tanggara, D., Amijaya, D.H., dan Surjono, S.S, 2018, *Evaluation of Coking Properties Bituminous Medium Volatile Coal, Batu Ayau Formation, Kutai Basin, Central Kalimantan*, IOP Conference Series Earth and Environmental Science, v. 212, doi: 10.1088/1755-1315/212/1/012032.
- Taylor, G.H., Teichmuller, M., Davis, A., Diessel, C.F.K., Littke, R., Robert, P., 1998. *Organic Petrology*, Gebruder Borntraeger, Stuttgart, 704 p.
- Thomas, L., 2002, *Coal Geology First Edition*, John Wiley & Sons, Ltd, West Sussex, United Kingdom, 384 p.
- Thomas, L., 2013, *Coal Geology Second Edition*, John Wiley & Sons, Ltd, West Sussex, United Kingdom, 444 p.



Trono, U., Mulyono., 2011, *Penyelidikan Batubara Di Daerah Mangole Dan Sekitarnya Kabupaten Kepulauan Sula, Maluku Utara*, Prosiding Pusat Sumber Daya Geologi, 1-24 p.

Vassilev, S.V., Vassileva, C.G., Baxter, D., Andersen, L.K., 2010, *Relationship Between Chemical and Mineral Composition of Coal and Their Potential Application As Genetic Indicators*, Geological Balcanica 39, p. 21-41.

Visser, W.A., Hermes, J.J., 1962, Geologic results of exploration for oil in the Netherlands, New Guenea. *Verh. Kon. Ned. Geol. Mijnbow. Gen.*, Geologische Serie. 20, 265p.

Yustanti, E., 2012, *Pencampuran Batubara Coking Dengan Batubara Lignite Hasil Karbonisasi Sebagai Bahan Pembuatan Kokas*. Jurnal Teknologi Pengelolaan Limbah (*Journal of Waste Management Technology*), ISSN 1410-9565, 1-16 p.

Zahar, W., Fitri, M., Anggayana, K., Widayat, A.H., 2017, *Pengaruh Komposisi Mikroskopi dan Kimia Batubara Terhadap Hasil Analisis Free Swelling Index Sebagai Salah Satu Parameter Penentu Cokeability Batubara Daerah Murung Raya*. Prosiding TPT XXVI PERHAPI 2017, 1-10 p.

Wiranata, B., 2019, *Hubungan Karakteristik Petrografi Organik Dan Geokimia dengan Maksimum Fluiditas Batubara Coking Formasi Tanjung di Daerah Sekako, Kalimantan Tengah*, Departemen Teknik Geologi, Universitas Gadjah Mada, 211, *unpublished*