

DAFTAR PUSTAKA

- Atmadja, R.S., Priadi, B., van Leeuwen, T.M., dan Kavalieris, I., 1999, Tectonic Setting of Porphyry Cu- Au , Mo and Related Mineralization Associated with Contrasted Neogene Magmatism in The Western Sulawesi Arc: The Island Arc, v. 8, p. 47–55.
- Bastori, I., dan Birmano, M.D., 2018, Analisis Ketersediaan Uranium di Indonesia untuk Kebutuhan PLTN Tipe PWR 1000 MWe: Jurnal Pengembangan Energi Nuklir, v. 19, p. 95–102.
- Bergman, S.C., Coffield, D.Q., Talbot, J.P., dan Garrard, R.A., 1996, Tertiary Tectonic and magmatic evolution of western Sulawesi and the Makassar Strait, Indonesia: Evidence for a Miocene continent-continent collision: Geological Society Special Publication, v. 106, p. 391–429, doi:10.1144/GSL.SP.1996.106.01.25.
- Boyle, R.W., 1982, Geochemical Prospecting for Thorium and Uranium deposits: Amsterdam, Elsevier Publishing Company Inc., v. 16, 498 p.
- Cuney, M., 2014, Felsic magmatism and uranium deposits: Bulletin de la Societe Geologique de France, v. 185, p. 75–92, doi:10.2113/gssgfbull.185.2.75.
- Cuney, M., 2012, Uranium and Thorium: The Extreme Diversity of the Resources of the World's Energy Minerals: Non-Renewable Resource Issues: Geoscientific and Societal Challenges, p. 91–129, doi:10.1007/978-90-481-8679-2.
- Draniswari, W.A., Adimedha, T.B., dan Widodo, 2019, Proses Magmatik dan Pascamagmatik pada Batuan Alkalin Pembawa U-Th di Daerah Trans Boteng , Mamuju , Sulawesi Barat, *in* Prosiding Seminar Geologi Nuklir dan Sumber Daya Tambang, p. 197–207.
- Draniswari, W.A., Kusuma, S.I.T., Adimedha, T.B., dan Sukadana, I.G., 2020, Peran Kontaminasi Kerak pada Diferensiasi Magma Pembentuk Batuan Vulkanik Sungai Ampalas, Mamuju, Sulawesi Barat: Eksplorium, v. 41, p. 73–86, doi:10.17146/eksplorium.2020.41.2.6040.
- Eglizaud, N., Miserque, F., Simoni, E., Schlegel, M., dan Descostes, M., 2006, Uranium(VI) Interaction with Pyrite: Chemical and Spectroscopic Studies: Radiochim. Acta, v. 94, p. 651–656, doi:10.1524/ract.2006.94.9.651.
- Elburg, M., Leeuwen, T. Van, Foden, J., dan Muhardjo, 2003, Spatial and Temporal Isotopic Domains of Contrasting Igneous Suites in Western and Northern Sulawesi, Indonesia: Chemical Geology, v. 199, p. 243–276, doi:10.1016/S0009-2541(03)00084-6.
- Fauzi, R., Muhammad, A.G., Adimedha, T.B., dan Widodo, 2020, Revealing the Potential of Radioactive Mineral Deposits Based on Borehole Log and Geochemical Analyses in Salumati Subsector, Mamuju, West Sulawesi, *in*

- Proceedings-The 49th IAGI Annual Convention & Exhibition, Lombok, p. 244–248.
- Gill, R., 2010, *Igneous Rocks and Processes: A Practical Guide*: West Sussex, United Kingdom, Wiley-Blackwell, A John Wiley & Sons, Ltd., 472 p.
- Glover, P., 2012, The Spectral Gamma Ray Log, *in* *Petrophysics M.Sc. Course Notes*, p. 111–120.
- Guo, F., Li, Z., Deng, T., Qu, M., Zhou, W., Huang, Q., Shang, P., Zhang, C., dan Yan, Z., 2020, Key Factors Controlling Volcanic-related Uranium Mineralization in The Xiangshan Basin, Jiangxi Province, South China: A review: *Ore Geology Reviews*, v. 122, p. 1–15, doi:10.1016/j.oregeorev.2020.103517.
- Gupta, A.K., dan Yagi, K., 1980, *Petrology and Genesis of Leucite-Bearing Rocks*: Berlin, Springer-Verlag, 266 p.
- Hall, R., dan Wilson, M.E.J., 2000, Neogene sutures in eastern Indonesia: *Journal of Asian Earth Sciences*, v. 18, p. 781–808, doi:10.1016/S1367-9120(00)00040-7.
- Hazen, R.M., Ewing, R.C., dan Sverjensky, D.A., 2009, Evolution of uranium and thorium minerals: *American Mineralogist*, v. 94, p. 1293–1311, doi:10.2138/am.2009.3208.
- IAEA, 2018, IAEA-TECDOC-1842: *Geological Classification of Uranium Deposits and Description of Selected Examples*: Vienna, Austria, Nuclear Fuel Cycle and Materials Section-IAEA, 430 p.
- IAEA, 2019, IAEA-TECDOC-1877: *World Thorium Occurrences, Deposits and Resources*: Vienna, Austria, Nuclear Fuel Cycle and Materials Section-IAEA, 134 p.
- Indrastomo, F.D., Sukadana, I.G., dan Suharji, S., 2017, Identifikasi Pola Struktur Geologi Sebagai Pengontrol Sebaran Mineral Radioaktif Berdasarkan Kelurusan Pada Citra Landsat-8 di Mamuju, Sulawesi Barat: *Eksplorium*, v. 38, p. 71-80, doi:10.17146/eksplorium.2017.38.2.3874.
- Karubun, J.F., 2019, *Studi Petrogenesis Batuan Vulkanik di Daerah Ahu dan Sekitarnya, Kecamatan Tapalang Barat, Kabupaten Mamuju, Provinsi Sulawesi Barat*: Universitas Gadjah Mada, Yogyakarta.
- Khairani, M., Sutrisno, S., dan Indrastomo, F.D., 2018, Identifikasi Uranium dan Thorium di Desa Takandeang Mamuju Sulawesi Barat dengan Menginterpretasikan Data Radiometri Tanah atau Batuan: *Al-Fiziya: Journal of Materials Science, Geophysics, Instrumentation and Theoretical Physics*, v. 1, doi:10.15408/fiziya.v1i1.8993.
- Klaja, J., dan Dudek, L., 2016, Geological Interpretation of Spectral Gamma Ray (SGR) Logging in Selected Boreholes: *NAFTA-GAZ*, v. 72, p. 3–14,

doi:10.18668/NG2016.01.01.

- Leeuwen, T.M. Van, dan Muhardjo, 2005, Stratigraphy and tectonic setting of the Cretaceous and Paleogene volcanic-sedimentary successions in northwest Sulawesi, Indonesia : implications for the Cenozoic evolution of Western and Northern Sulawesi: v. 25, p. 481–511, doi:10.1016/j.jseaes.2004.05.004.
- Le Maitre, R.W., 2002, Igneous Rocks - A Classification and Glossary of Terms: New York, Cambridge University Press, 254 p.
- Ohnuki, T., Kozai, N., Samadfam, M., Yasuda, R., dan Yamamoto, S., 2004, The Formation of Autunite within The Leached Layer of Dissolving Apatite : Incorporation Mechanism of Uranium by Apatite: v. 211, p. 1–14, doi:10.1016/j.chemgeo.2004.03.004.
- Pemerintah Indonesia, 1997, Undang-Undang Republik Indonesia Nomor 10 Tahun 1997 tentang Ketenaganukliran, Lembaran Negara Republik Indonesia Tahun 1997 Nomor 23: Jakarta, Sekretariat Negara.
- Ratman, N., dan Atmawinata, S., 1993, Peta Geologi Lembar Mamuju, Sulawesi: Bandung, Pusat Penelitian dan Pengembangan Geologi.
- Risdianto, D., dan Kusnadi, D., 2009, Aplikasi Grafik Probability dalam Pengolahan Data Eksplorasi Panas Bumi: Buletin Sumber Daya Geologi, v. 4, p. 26–35, doi:10.47599/bsdg.v4i1.172.
- Rosi, M., dan Santacroce, R., 1983, The A.D. 472 “Pollena” Eruption: Volcanological and Petrological Data for this Poorly-known, Plinian-Type Event at Vesuvius: Journal of Volcanology and Geothermal Research, v. 17, p. 249–271, doi:10.1016/0377-0273(83)90071-9.
- Sukadana, I.G., 2015. Petrogenesis Batuan Vulkanik Adang dan Kaitannya dengan Keterdapatan Mineral Radioaktif di Kabupaten Mamuju, Sulawesi Barat: Universitas Gadjah Mada, Yogyakarta.
- Sukadana, I.G., Syaeful, H., Indrastomo, F.D., Widana, K.S., dan Rakhma, E., 2016, Identification of Mineralization Type and Specific Radioactive Minerals in Mamuju, West Sulawesi: Journal of East China University of Technology, v. 39, p. 39–48.
- Surono, dan Hartono, U., 2013, Geologi Sulawesi: Jakarta, LIPI Press, 352p.
- Syaeful, H., Sukadana, I.G., dan Sumaryanto, A., 2014, Radiometric mapping for Naturally Occurring Radioactive Materials (NORM) assessment in Mamuju, West Sulawesi: Atom Indonesia, v. 40, p. 33–39, doi:10.17146/aij.2014.263.
- Weisenberger, T., dan Spürgin, S., 2009, Zeolites in alkaline rocks of the Kaiserstuhl volcanic complex, SW Germany - New microprobe investigation and the relationship of zeolite mineralogy to the host rock: Geologica Belgica, v. 12, p. 75–91.
- Weisenberger, T.B., Spürgin, S., dan Lahaye, Y., 2014, Hydrothermal alteration

and zeolitization of the Fohberg phonolite, Kaiserstuhl Volcanic Complex, Germany: International Journal of Earth Sciences, v. 103, p. 2273–2300, doi:10.1007/s00531-014-1046-1.

Winter, J.D., 2014, Principles of Igneous and Metamorphic Petrology: England, Pearson Education Limited, 738p.

Wulan, H.E., 2019, Studi Alterasi Hidrotermal dan Pengayaan Unsur Radioaktif di Daerah Takandeang, Tapalang, Mamuju, Sulawesi Barat: Universitas Gadjah Mada, Yogyakarta.