

DAFTAR PUSTAKA

- Abe, N., and Arai, S., 1993, Petrographical characteristics of ultra- mafic xenoliths from Megata volcano, the Northeast Japan arc.pdf: The science reports of the Kanazawa University, v. 38, p. 1–24, <https://kanazawa-u.repo.nii.ac.jp/records/11180> (accessed October 2024).
- Amin, T.C., Ratman, N., and Gafoer, S., 1999, Peta Geologi Regional Lembar Jawa Bagian Tengah Skala 1:500.000.:
- Anshori, C., 2007, Petrogenesis Basalt Sungai Medana Karangsambung, Berdasarkan Analisis Geokimia: Jurnal Riset Geologi dan Pertambangan, v. 17, p. 37, doi:10.14203/RISETGEOTAM2007.V17.143.
- Ansori, C., Setiawan, N.I., Warmada, I.W., and Yogaswara, H., 2022, Identification of geodiversity and evaluation of geosites to determine geopark themes of the Karangsambung-Karangbolong National Geopark, Kebumen, Indonesia: International Journal of Geoheritage and Parks, v. 10, p. 1–15, doi:10.1016/J.IJGEO.2022.01.001.
- Arakawa, Y., Endo, D., Ikehata, K., Oshika, J., Shinmura, T., and Mori, Y., 2017, Two types of gabbroic xenoliths from rhyolite dominated Nijima volcano, northern part of Izu-Bonin arc: Petrological and geochemical constraints: Open Geosciences, v. 9, p. 1–12, doi:10.1515/GEO-2017-0001/MACHINEREADABLECITATION/RIS.
- Ashwal, L.D., 2020, Anorthosit, in Alderton, D. and Elias, S.A. eds., Encyclopedia of Geology: Volume 1-6, Second Edition, Elsevier Ltd., v. 2, p. 130–144, doi:10.1016/B978-0-12-409548-9.12461-3.
- Le Bas, M.J., and Streckeisen, A.L., 1991, The IUGS systematics of igneous rocks: Journal of the Geological Society, v. 148, p. 825–833, doi:10.1144/GSJGS.148.5.0825.
- Van Bemmelen, R.W., 1949, The Geology of Indonesia.:
- Best, M.G., 2003, Igneous and Metamorphic Petrology: United Kingdom, Blackwell Science Ltd, 724 p.
- Bjerga, A., Stubseid, H.H., Pedersen, L.E.R., Corfu, F., Whitehouse, M., and Pedersen, R.B., 2024, Constraints on the Timing and Lower Crustal Accretion at the Schulz Massif, Mohns Ridge, Arctic Mid Ocean Ridges: Geochemistry, Geophysics, Geosystems, v. 25, doi:10.1029/2023GC010953.
- Bobco, F.E.R., Goldberg, K., and Bardola, T.P., 2017, Modelo deposicional do Membro Ipubi (Bacia do Araripe, nordeste do Brasil) a partir da caracterização faciológica, petrográfica e isotópica dos evaporitos: Pesquisas em Geociências, v. 44, p. 431–451, doi:<https://doi.org/10.22456/1807->

9806.83267.

- Bohm, M., Haberland, C., and Asch, G., 2013, Tectonophysics Imaging fluid-related subduction processes beneath Central Java (Indonesia) using seismic attenuation tomography: *Tectonophysics*, v. 590, p. 175–188, doi:10.1016/j.tecto.2013.01.021.
- Candela, P.A., 2003, Ores in the Earth's Crust: *Treatise on Geochemistry*, v. 3–9, p. 411–431, doi:10.1016/B0-08-043751-6/03028-0.
- Carlile, J.C., and Mitchell, A.H.G., 1994, Magmatic arcs and associated gold and copper mineralization in Indonesia: *Journal of Geochemical Exploration*, v. 50, p. 91–142, doi:10.1016/0375-6742(94)90022-1.
- Cendrajaya, R.I.M., Juarsan, L.I., Masri, Rubaiyn, A., Syahrul, Neni, Ramadani, S., and Hasria, 2024, Petrochemistry of Ultramafic Rock in Baula - Pomalaa Ophiolite Complex, Southeast Sulawesi, Indonesia: *Journal of Geoscience, Engineering, Environment, and Technology*, v. 9, p. 44–51, doi:10.25299/JGEET.2024.9.1.14491.
- Centrella, S., Putnis, A., Lanari, P., and Austrheim, H., 2018, Textural and chemical evolution of pyroxene during hydration and deformation: A consequence of retrograde metamorphism: *Lithos*, v. 296–299, p. 245–264, doi:10.1016/J.LITHOS.2017.11.002.
- Chadwick, J.P., Troll, V.R., Ginibre, C., Morgan, D., Gertisser, R., Waight, T.E., and Davidson, J.P., 2007, Carbonate Assimilation at Merapi Volcano, Java, Indonesia: Insights from Crystal Isotope Stratigraphy: *Journal of Petrology*, v. 48, p. 1793–1812, doi:10.1093/PETROLOGY/EGM038.
- Chadwick, J.P., Troll, • V R, Waight, • T E, Van Der Zwan, F.M., Schwarzkopf, • L M, Van Der Zwan, A.F.M., Waight, T.E., and Schwarzkopf, L.M., 2013, Petrology and geochemistry of igneous inclusions in recent Merapi deposits: a window into the sub-volcanic plumbing system: *Contrib Mineral Petrol*, v. 165, p. 259–282, doi:10.1007/s00410-012-0808-7.
- Condon, W.H., Pardyanto, L., Ketner, K.B., Amin, T.C., Gafoer, S., and Samodra, H., 1996, Peta Geologi Bersistem Indonesia Lembar Banjarnegara-Pekalongan, 1408-4, 1409-1, Skala 1:100.000.:
- Deegan, F.M., 2010, Processes of Magma-crust Interaction. Insights from Geochemistry and Experimental Petrology.: Uppsala Universitet, 46 p., <https://uu.diva-portal.org/smash/get/diva2:358897/FULLTEXT02.pdf>.
- DeMets, C., Gordon, R.G., and Argus, D.F., 2010, Geologically current plate motions: *Geophysical Journal International*, v. 181, p. 1–80, doi:10.1111/J.1365-246X.2009.04491.X.
- Dewey, J.F., 1965, Nature and origin of kink-bands: *Tectonophysics*, v. 1, p. 459–494, doi:10.1016/0040-1951(65)90019-3.

- Duchene, S., Severac, J.L., Samalens, N., Driouch, Y., Ntarmouchant, A., Kriegsman, L., Dahire, M., Debat, P., and Gouy, S., 2022, Multi-stage metamorphism recorded in crustal xenoliths from Permian dykes of the region of Mrirt (Moroccan Central Massif): *Journal of African Earth Sciences*, v. 194, doi:10.1016/j.jafrearsci.2022.104636.
- Gardner, M.F., Troll, V.R., Gamble, J.A., Gertisser, R., Hart, G.L., Ellam, R.M., Harris, C., and Wolff, J.A., 2013, Crustal Differentiation Processes at Krakatau Volcano, Indonesia: *Journal of Petrology*, v. 54, p. 149–182, doi:10.1093/PETROLOGY/EGS066.
- Griffin, W.L., 1971, Genesis of coronas in anorthosites of the upper jotun nappe, indre sogn, Norway: *Journal of Petrology*, v. 12, p. 219–243, doi:10.1093/petrology/12.2.219.
- Gündüz, M., and Asan, K., 2023, MagMin_PT: An Excel-based mineral classification and geothermobarometry program for magmatic rocks: *Mineralogical Magazine*, v. 87, p. 1–9, doi:10.1180/MGM.2022.113.
- Habib, F., Abdurrachman, M., and Setiawan, I., 2018, Vulcanostratigraphy and Petrogenesis of Sundoro Volcano and Its Surrounding, Wonosobo Regency, Temanggung Regency, Central Jawa, in *Pekan Ilmiah Tahunan IAGI 2018*, doi:10.31237/osf.io/7gbt4.
- Haldar, S.K., and Tišljär, J., 2013, Introduction to Mineralogy and Petrology: United Kingdom, Elsevier Inc., 1–338 p., doi:10.1016/C2012-0-03337-6.
- Hall, R., 2002, Cenozoic geological and plate tectonic evolution of SE Asia and the SW Pacific: computer-based reconstructions, model and animations: *Journal of Asian Earth Sciences*, v. 20, p. 353–431, doi:10.1016/S1367-9120(01)00069-4.
- Hall, R., 2012, Late Jurassic–Cenozoic reconstructions of the Indonesian region and the Indian Ocean: *Tectonophysics*, v. 570–571, p. 1–41, doi:10.1016/J.TECTO.2012.04.021.
- Hall, R., 2009, The Eurasian SE Asian margin as a modern example of an accretionary orogen: *Geological Society Special Publication*, v. 318, p. 351–372, doi:10.1144/SP318.13.
- Hamilton, W., 1973, Tectonics of the Indonesian region:, doi:10.3133/PP1078.
- Higgins, M.D., 2006, Quantitative Textural Measurements in Igneous and Metamorphic Petrology: Cambridge University Press, 3–75 p., doi:10.1017/CBO9780511535574.
- Hirayama, T., Shibata, T., Yoshikawa, M., Abbou–Kébir, K., Kimura, K., Osanai, Y., Das, K., Hayasaka, Y., and Takemura, K., 2022, Origin of xenoliths within the Hime–shima volcanic group, Kyushu, southwestern Japan Arc: *Journal of Mineralogical and Petrological Sciences*, v. 117, doi:10.2465/jmps.211217b.

- Islamey, N.A.B., Wibowo, H.E., and Setiawan, N.I., 2024, Xenolith petrography for identification of substratum lithology of an active volcano: a case study of Lava Kekep, Sundoro Volcano, Central Java: IOP Conference Series: Earth and Environmental Science, v. 1373, p. 012071, doi:10.1088/1755-1315/1373/1/012071.
- Jeffery, T.A.J. et al., 2013, The pre-eruptive magma plumbing system of the 2007-2008 dome-forming eruption of Kelut volcano, East Java, Indonesia: Contributions to Mineralogy and Petrology, v. 166, p. 275–308, doi:10.1007/S00410-013-0875-4.
- Jiang, Z., Li, S., Liu, Q., Zhang, J., Zhou, Z., and Zhang, Y., 2021, The trials and tribulations of the Hawaii hot spot model: Earth-Science Reviews, v. 215, p. 103544, doi:10.1016/J.EARSCIREV.2021.103544.
- Klügel, A., 1998, Reactions between mantle xenoliths and host magma beneath la Palma (Canary Islands): Constraints on magma ascent rates and crustal reservoirs: Contributions to Mineralogy and Petrology, v. 131, p. 237–257, doi:10.1007/S004100050391/METRICS.
- Marsh, B.D., 1988, Crystal size distribution (CSD) in rocks and the kinetics and dynamics of crystallization - I. Theory: Contributions to Mineralogy and Petrology, v. 99, p. 277–291, doi:10.1007/BF00375362/METRICS.
- Mercier, J.-C.C., and Nicolas, A., 1975, Textures and Fabrics of Upper-Mantle Peridotites as Illustrated by Xenoliths from Basalts: Journal of Petrology, v. 16, p. 454–487, doi:10.1093/petrology/16.1.454.
- Morgan, D.J., and Jerram, D.A., 2006, On estimating crystal shape for crystal size distribution analysis: Journal of Volcanology and Geothermal Research, v. 154, p. 1–7, doi:10.1016/J.JVOLGEORES.2005.09.016.
- Nursecha, M.A.Q., Jyalita, J., and Husein, S., 2014, Tectonic Control on Hydrocarbon Seepages of Sijengung, North Serayu Basin, Central Java, in Indonesian Petroleum Association, Jakarta, doi:10.13140/RG.2.1.2413.6407.
- Patria, A., and Aulia, A.N., 2020, STRUCTURAL AND EARTHQUAKE EVALUATIONS ALONG JAVA SUBDUCTION ZONE, INDONESIA: Riset Geologi dan Pertambangan, v. 30, p. 65, doi:10.14203/risetgeotam2020.v30.1072.
- Payot, B.D., Jegou, S., Maury, R.C., Polve, M., Gregoire, M., Ceuleneer, G., Tamayo, R.A., Yumul, G.P., Bellon, H., and Cotten, J., 2007, The oceanic substratum of Northern Luzon: Evidence from xenoliths within Monglo adakite (the Philippines): Island Arc, v. 16, p. 276–290, doi:10.1111/J.1440-1738.2007.00574.X.
- Prambada, O., Arakawa, Y., Ikehata, K., Furukawa, R., Takada, A., Wibowo, H.E., Nakagawa, M., and Kartadinata, M.N., 2016, Eruptive history of Sundoro volcano, Central Java, Indonesia since 34 ka: Bulletin of Volcanology, v. 78,

doi:10.1007/S00445-016-1079-3.

- Rasskazov, S. V., Yasnygina, T.A., Fefelov, N.N., and Saranina, E. V., 2010, Geochemical evolution of Middle-Late Cenozoic magmatism in the northern part of the Rio Grande Rift, Western United States: *Russian Journal of Pacific Geology*, v. 4, p. 13–40, doi:10.1134/S1819714010010021.
- Rogers, N., 2015, The Composition and Origin of Magmas, *in* Sigurdsson, H. ed., *The Encyclopedia of Volcanoes*, Academic Press, p. 93–112, doi:10.1016/B978-0-12-385938-9.00004-3.
- Rudnick, R.L., and Taylor, S.R., 1987, The composition and petrogenesis of the lower crust: A xenolith study: *Journal of Geophysical Research: Solid Earth*, v. 92, p. 13981–14005, doi:10.1029/JB092IB13P13981.
- Scarth, A., 1994, *Volcanoes: An Introduction* (A. Scarth, Ed.): London, UCL Press Limited, 32–60 p.
- Schilling, J.-G., 1973, Iceland Mantle Plume: Geochemical Study of Reykjanes Ridge: *Nature* 1973 242:5400, v. 242, p. 565–571, doi:10.1038/242565a0.
- Setijadji, L.D., Kajino, S., Imai, A., and Watanabe, K., 2006, Cenozoic Island Arc Magmatism in Java Island (Sunda Arc, Indonesia): Clues on Relationships between Geodynamics of Volcanic Centers and Ore Mineralization: *Resource Geology*, v. 56, p. 267–292, doi:10.1111/J.1751-3928.2006.TB00284.X.
- Sewell, R.J., Hobden, B.J., Weaver, S.D., Kong, H., Survey, G., Margaret, P., and Kowloon, R., 1993, Mafic and ultramafic mantle and deep crustal xenoliths from Banks Peninsula, South Island, New Zealand Mafic and ultramafic mantle and deep crustal xenoliths from Banks Peninsula, South Island, New Zealand: *New Zealand Journal of Geology and Geophysics*, v. 36, p. 223–231, doi:10.1080/00288306.1993.9514570.
- Siebert, L., Simkin, T., and Kimberly, P., 2010, *Volcanoes of the World: California*, University of California Press, v. 1.
- Smyth, H., Hall, R., Hamilton, J., and Kinny, P., 2005, East Java: Cenozoic Basins, Volcanoes and Ancient Basement, *in* Indonesian Petroleum Association, Indonesian Petroleum Association, p. 251–266, doi:10.29118/IPA.629.05.G.045.
- Smyth, H.R., Hamilton, P.J., Hall, R., and Kinny, P.D., 2007, The deep crust beneath island arcs: Inherited zircons reveal a Gondwana continental fragment beneath East Java, Indonesia: *Earth and Planetary Science Letters*, v. 258, p. 269–282, doi:10.1016/J.EPSL.2007.03.044.
- Soeria-Atmadja, R., Suparka, S., Abdullah, C., and Noeradi, D., 1998, Magmatism in western Indonesia, the trapping of the Sumba Block and the gateways to the east of Sundaland: *Journal of Asian Earth Sciences*, v. 16, p. 1–12.
- Sonbul, A.R., and Mesaed, A.A., 2017, Petrographic Characterization of the

Different Types of Basalts of Harrat Al Fatih, Ablah Area, West Central Arabian Shield, Saudi Arabia: *Open Journal of Geology*, v. 07, p. 871–887, doi:10.4236/ojg.2017.76060.

Sribudiyani, S., Muchsin, N., Ryacudu, R., Kunto, T., Astono, P., Prasetya, I., Sapiie, B., Asikin, S., Harsolumakso, A.H., and Yulianto, I., 2003, The Collision of the East Java Microplate and Its Implication for Hydrocarbon Occurrences in the East Java Basin, *in* *Proceedings Indonesian Petroleum Association*, Indonesian Petroleum Association, doi:10.29118/ipa.1530.03.g.085.

Streckeisen, A., 1980, Classification and nomenclature of volcanic rocks, lamprophyres, carbonatites and melilitic rocks IUGS Subcommittee on the Systematics of Igneous Rocks - Recommendations and suggestions: *Geologische Rundschau*, v. 69, p. 194–207, doi:10.1007/BF01869032/METRICS.

Su, B.X. et al., 2011, The origin of spongy texture in minerals of mantle xenoliths from the Western Qinling, central China: *Contributions to Mineralogy and Petrology*, v. 161, p. 465–482, doi:10.1007/s00410-010-0543-x.

Sukhyar, R., 1991, Chemistry of Arc Rocks from Dieng, Sundoro and Sumbing Volcanic Complexes: Crustal Contamination Versus Chemical Heterogeneity in Mantle, *in* *Indonesian Association of Geologist (IAGI)*.

Troll, V.R. et al., 2013, Magmatic differentiation processes at Merapi Volcano: inclusion petrology and oxygen isotopes: *Journal of Volcanology and Geothermal Research*, v. 261, p. 38–49, doi:10.1016/J.JVOLGEORES.2012.11.001.

Troll, V.R., Hilton, D.R., Jolis, E.M., Chadwick, J.P., Blythe, L.S., Deegan, F.M., Schwarzkopf, L.M., and Zimmer, M., 2012, Crustal CO₂ liberation during the 2006 eruption and earthquake events at Merapi volcano, Indonesia: *Geophysical Research Letters*, v. 39, doi:10.1029/2012GL051307.

Vernon, R.H., 2018, *A Practical Guide to Rock Microstructure*: Cambridge, , Cambridge University Press, 103 p., doi:10.1017/CBO9780511807206.

Wakita, K., Miyazaki, K., Zulkarnain, I., Sopaheluwakan, J., and Sanyoto, P., 1998, Tectonic implications of new age data for the Meratus Complex of south Kalimantan, Indonesia: *Island Arc*, v. 7, p. 202–222, doi:10.1046/J.1440-1738.1998.00163.X.

Wentworth, C.K., 1922, A Scale of Grade and Class Terms for Clastic Sediments: *The Journal of Geology*, v. 30, p. 377–392, <https://www.jstor.org/stable/30063207> (accessed August 2024).

Wibowo, H.E., Nakagawa, M., Kuritani, T., Furukawa, R., Prambada, O., and Harijoko, A., 2022, Petrological and Geochemical Study of Sundoro Volcano, Central Java, Indonesia: Temporal Variations in Differentiation and Source

Processes During the Growth of an Individual Volcano: *Journal of Petrology*, v. 63, p. 1–22, doi:10.1093/petrology/egac083.

Winter, J.D.N., 2010, *Principles of Igneous and Metamorphic Petrology*: Essex, Pearson Prentice Hall, 25–491 p.

Yang, K., Szabó, C., Arai, S., Yu, J.E., and Jung, H., 2012, Silica enrichment of Group II xenoliths by evolved alkali basalt from Jeju Island, South Korea: Implication for modification of intraplate deep-seated rocks: *Mineralogy and Petrology*, v. 106, p. 107–130, doi:10.1007/s00710-012-0222-x.

Zhang, Y., Wang, C., Wu, Y., Liu, W., and Jin, Z., 2015, Experimental constraints on formation of hematite in olivine at high pressures and temperatures: *Physics and Chemistry of Minerals*, v. 42, p. 761–771, doi:10.1007/s00269-015-0760-y.