

REFERENCES

- Anggono, T., Syuhada, S., Febriani, F., Handayani, L., Mukti, M. M., & Amran, A. (2020). Crustal shear-wave velocity structure in Western Java, Indonesia from analysis of teleseismic receiver functions. *Journal of Earth System Science*, 129(1), 6. <https://doi.org/10.1007/s12040-019-1288-1>
- Arculus, R. J., & Powell, R. (1986). Source component mixing in the regions of arc magma generation. *Journal of Geophysical Research*, 91(B6), 5913. <https://doi.org/10.1029/JB091iB06p05913>
- Barber, A. J., Crow, M. J., & De Smet, M. E. M. (2005). Chapter 14 Tectonic Evolution. In A. J. Barber, M. J. Milsom, & J. S. Crow (Eds.), *Sumatra: Geology, Resources and Tectonic Evolution* (Vol. 31, Issue 1, pp. 234–259). Geological Society of London. <https://doi.org/10.1144/GSL.MEM.2005.031.01.14>
- Barker, A. K., Holm, P. M., Peate, D. W., & Baker, J. A. (2009). Geochemical Stratigraphy of Submarine Lavas (3–5 Ma) from the Flamengos Valley, Santiago, Southern Cape Verde Islands. *Journal of Petrology*, 50(1), 169–193. <https://doi.org/10.1093/petrology/egn081>
- Blundy, J., & Cashman, K. (2005). Rapid decompression-driven crystallization recorded by melt inclusions from Mount St. Helens volcano. *Geology*, 33(10), 793. <https://doi.org/10.1130/G21668.1>
- Bryan, S. E., Peate, I. U., Peate, D. W., Self, S., Jerram, D. A., Mawby, M. R., Marsh, J. S. (Goonie), & Miller, J. A. (2010). The largest volcanic eruptions on Earth. *Earth-Science Reviews*, 102(3–4), 207–229. <https://doi.org/10.1016/j.earscirev.2010.07.001>
- Burchardt, S. (2018). Introduction to Volcanic and Igneous Plumbing Systems—Developing a Discipline and Common Concepts. In S. Burchardt (Ed.), *Volcanic and Igneous Plumbing Systems* (pp. 1–12). Elsevier. <https://doi.org/10.1016/B978-0-12-809749-6.00001-7>
- Cashman, K., & Blundy, J. (2013). Petrological cannibalism: the chemical and textural consequences of incremental magma body growth. *Contributions to Mineralogy and Petrology*, 166(3), 703–729. <https://doi.org/10.1007/s00410-013-0895-0>
- Chadwick, J. P., Troll, V. R., Ginibre, C., Morgan, D., Gertisser, R., Waught, T. E., & Davidson, J. P. (2007). Carbonate Assimilation at Merapi Volcano, Java, Indonesia: Insights from Crystal Isotope Stratigraphy. *Journal of Petrology*, 48(9), 1793–1812. <https://doi.org/10.1093/petrology/egm038>
- Chadwick, J. P., Troll, V. R., Waught, T. E., van der Zwan, F. M., & Schwarzkopf, L. M. (2013). Petrology and geochemistry of igneous inclusions in recent Merapi deposits: a window into the sub-volcanic plumbing system. *Contributions to Mineralogy and Petrology*, 165(2), 259–282. <https://doi.org/10.1007/s00410-012-0808-7>
- Cioni, R., Marianelli, P., & Santacroce, R. (1998). Thermal and compositional evolution of the shallow magma chambers of Vesuvius: Evidence from

- pyroxene phenocrysts and melt inclusions. *Journal of Geophysical Research: Solid Earth*, 103(B8), 18277–18294. <https://doi.org/10.1029/98JB01124>
- Coote, A. C., & Shane, P. (2016). Crystal origins and magmatic system beneath Ngauruhoe volcano (New Zealand) revealed by plagioclase textures and compositions. *Lithos*, 260, 107–119. <https://doi.org/10.1016/j.lithos.2016.05.017>
- Costa, F., Andreastuti, S., Bouvet de Maisonneuve, C., & Pallister, J. S. (2013). Petrological insights into the storage conditions, and magmatic processes that yielded the centennial 2010 Merapi explosive eruption. *Journal of Volcanology and Geothermal Research*, 261, 209–235. <https://doi.org/10.1016/j.jvolgeores.2012.12.025>
- Costa, F., Dohmen, R., & Chakraborty, S. (2008). Time Scales of Magmatic Processes from Modeling the Zoning Patterns of Crystals. *Reviews in Mineralogy and Geochemistry*, 69(1), 545–594. <https://doi.org/10.2138/rmg.2008.69.14>
- D'Mello, N. G., Zellmer, G. F., Negrini, M., Kereszturi, G., Procter, J., Stewart, R., Prior, D., Usuki, M., & Iizuka, Y. (2021). Deciphering magma storage and ascent processes of Taranaki, New Zealand, from the complexity of amphibole breakdown textures. *Lithos*, 398–399, 106264. <https://doi.org/10.1016/j.lithos.2021.106264>
- Dahren, B., Troll, V. R., Andersson, U. B., Chadwick, J. P., Gardner, M. F., Jaxybulatov, K., & Koulakov, I. (2012). Magma plumbing beneath Anak Krakatau volcano, Indonesia: evidence for multiple magma storage regions. *Contributions to Mineralogy and Petrology*, 163(4), 631–651. <https://doi.org/10.1007/s00410-011-0690-8>
- Davidson, J. P. (1987). Crustal contamination versus subduction zone enrichment: Examples from the Lesser Antilles and implications for mantle source compositions of island arc volcanic rocks. *Geochimica et Cosmochimica Acta*, 51(8), 2185–2198. [https://doi.org/10.1016/0016-7037\(87\)90268-7](https://doi.org/10.1016/0016-7037(87)90268-7)
- Davidson, J. P., Morgan, D. J., Charlier, B. L. A., Harlou, R., & Hora, J. M. (2007). Microsampling and Isotopic Analysis of Igneous Rocks: Implications for the Study of Magmatic Systems. *Annual Review of Earth and Planetary Sciences*, 35(1), 273–311. <https://doi.org/10.1146/annurev.earth.35.031306.140211>
- Davidson, J., Turner, S., Handley, H., Macpherson, C., & Dosseto, A. (2007). Amphibole “sponge” in arc crust? *Geology*, 35(9), 787. <https://doi.org/10.1130/G23637A.1>
- De Angelis, S. H., Larsen, J., & Coombs, M. (2013). Pre-eruptive Magmatic Conditions at Augustine Volcano, Alaska, 2006: Evidence from Amphibole Geochemistry and Textures. *Journal of Petrology*, 54(9), 1939–1961. <https://doi.org/10.1093/petrology/egt037>
- De Angelis, S. H., Larsen, J., Coombs, M., Dunn, A., & Hayden, L. (2015). Amphibole reaction rims as a record of pre-eruptive magmatic heating: An experimental approach. *Earth and Planetary Science Letters*, 426, 235–245. <https://doi.org/10.1016/j.epsl.2015.06.051>
- Deegan, F. M., Whitehouse, M. J., Troll, V. R., Budd, D. A., Harris, C., Geiger, H., & Hålenius, U. (2016). Pyroxene standards for SIMS oxygen isotope analysis

- and their application to Merapi volcano, Sunda arc, Indonesia. *Chemical Geology*, 447, 1–10. <https://doi.org/10.1016/j.chemgeo.2016.10.018>
- Dessimoz, M., Müntener, O., & Ulmer, P. (2012). A case for hornblende dominated fractionation of arc magmas: the Chelan Complex (Washington Cascades). *Contributions to Mineralogy and Petrology*, 163(4), 567–589. <https://doi.org/10.1007/s00410-011-0685-5>
- Di Renzo, V., Corsaro, R. A., Miraglia, L., Pompilio, M., & Civetta, L. (2019). Long and short-term magma differentiation at Mt. Etna as revealed by Sr-Nd isotopes and geochemical data. *Earth-Science Reviews*, 190, 112–130. <https://doi.org/10.1016/j.earscirev.2018.12.008>
- Efimov, A. A., & Malitch, K. N. (2012). Magnetite-orthopyroxene symplectites in gabbros of the Urals: A structural track of olivine oxidation. *Geology of Ore Deposits*, 54(7), 531–539. <https://doi.org/10.1134/S1075701511070075>
- Fischer, T. P., & Marty, B. (2005). Volatile abundances in the sub-arc mantle: insights from volcanic and hydrothermal gas discharges. *Journal of Volcanology and Geothermal Research*, 140(1–3), 205–216. <https://doi.org/10.1016/j.jvolgeores.2004.07.022>
- Gardner, M. F., Troll, V. R., Gamble, J. A., Gertisser, R., Hart, G. L., Ellam, R. M., Harris, C., & Wolff, J. A. (2013). Crustal Differentiation Processes at Krakatau Volcano, Indonesia. *Journal of Petrology*, 54(1), 149–182. <https://doi.org/10.1093/petrology/egs066>
- Gertisser, R., & Keller, J. (2003). Temporal variations in magma composition at Merapi Volcano (Central Java, Indonesia): magmatic cycles during the past 2000 years of explosive activity. *Journal of Volcanology and Geothermal Research*, 123(1–2), 1–23. [https://doi.org/10.1016/S0377-0273\(03\)00025-8](https://doi.org/10.1016/S0377-0273(03)00025-8)
- Giacomoni, P. P., Coltorti, M., Bryce, J. G., Fahnestock, M. F., & Guitreau, M. (2016). Mt. Etna plumbing system revealed by combined textural, compositional, and thermobarometric studies in clinopyroxenes. *Contributions to Mineralogy and Petrology*, 171(4). <https://doi.org/10.1007/s00410-016-1247-7>
- Gill, J. B. (1981). *Spatial and Temporal Variations in the Composition of Orogenic Andesites* (pp. 206–229). https://doi.org/10.1007/978-3-642-68012-0_7
- Ginibre, C., Kronz, A., & Wörner, G. (2002). High-resolution quantitative imaging of plagioclase composition using accumulated backscattered electron images: new constraints on oscillatory zoning. *Contributions to Mineralogy and Petrology*, 142(4), 436–448. <https://doi.org/10.1007/s004100100298>
- Ginibre, C., Wörner, G., & Kronz, A. (2002). Minor- and trace-element zoning in plagioclase: implications for magma chamber processes at Parinacota volcano, northern Chile. *Contributions to Mineralogy and Petrology*, 143(3), 300–315. <https://doi.org/10.1007/s00410-002-0351-z>
- Green, N., & Powell, J. (2006). Amphibole-controlled Differentiation of High-Mg Andesite Magmas in a Hot Subduction Environment. *AGU Fall Meeting*, V23C-0637. <https://ui.adsabs.harvard.edu/abs/2006AGUFM.V23C0637G/abstract>
- Habtoor, A. M., Ahmed, A. H., Al-Akhaly, I. A., Harbi, H. M., & Said, N. M. (2022). Orthopyroxene-magnetite symplectites in gabbro of Gabal Taftafan,

- western Arabian Shield, Saudi Arabia. *Arabian Journal of Geosciences*, 15(6), 524. <https://doi.org/10.1007/s12517-022-09812-x>
- Hall, R., & Sevastjanova, I. (2012). Australian crust in Indonesia. *Australian Journal of Earth Sciences*, 59(6), 827–844. <https://doi.org/10.1080/08120099.2012.692335>
- Hamilton, W. (1973). Tectonics of the Indonesian Region. *Bulletin of the Geological Society of Malaysia*, 6, 3–10. <https://doi.org/10.7186/bgsm06197301>
- Hammer, J. E., & Rutherford, M. J. (2002). An experimental study of the kinetics of decompression-induced crystallization in silicic melt. *Journal of Geophysical Research: Solid Earth*, 107(B1), ECV 8-1-ECV 8-24. <https://doi.org/10.1029/2001JB000281>
- Handley, H. K., Davidson, J. P., Macpherson, C. G., & Stimac, J. A. (2008). Untangling differentiation in arc lavas: Constraints from unusual minor and trace element variations at Salak Volcano, Indonesia. *Chemical Geology*, 255(3–4), 360–376. <https://doi.org/10.1016/j.chemgeo.2008.07.007>
- Handley, H. K., Macpherson, C. G., & Davidson, J. P. (2010). Geochemical and Sr-O isotopic constraints on magmatic differentiation at Gede Volcanic Complex, West Java, Indonesia. *Contributions to Mineralogy and Petrology*, 159(6), 885–908. <https://doi.org/10.1007/s00410-009-0460-z>
- Handley, H. K., Macpherson, C. G., Davidson, J. P., Berlo, K., & Lowry, D. (2007). Constraining Fluid and Sediment Contributions to Subduction-Related Magmatism in Indonesia: Ijen Volcanic Complex. *Journal of Petrology*, 48(6), 1155–1183. <https://doi.org/10.1093/petrology/egm013>
- Handley, H. K., Turner, S., Macpherson, C. G., Gertisser, R., & Davidson, J. P. (2011). Hf–Nd isotope and trace element constraints on subduction inputs at island arcs: Limitations of Hf anomalies as sediment input indicators. *Earth and Planetary Science Letters*, 304(1–2), 212–223. <https://doi.org/10.1016/j.epsl.2011.01.034>
- Harjono, H., Diament, M., Dubois, J., Larue, M., & Zen, M. T. (1991). Seismicity of the Sunda Strait: Evidence for crustal extension and volcanological implications. *Tectonics*, 10(1), 17–30. <https://doi.org/10.1029/90TC00285>
- Hasibuan, R. F. (2020). *The evolution of magma plumbing system in Tangkil and Rajabasa volcanoes, Indonesia*. Akita University.
- Hawthorne, F. C., Oberti, R., Harlow, G. E., Maresch, W. V., Martin, R. F., Schumacher, J. C., & Welch, M. D. (2012). Nomenclature of the amphibole supergroup. *American Mineralogist*, 97(11–12), 2031–2048. <https://doi.org/10.2138/am.2012.4276>
- Hayes, G. P., Moore, G. L., Portner, D. E., Hearne, M., Flamme, H., Furtney, M., & Smoczyk, G. M. (2018). Slab2, a comprehensive subduction zone geometry model. *Science*, 362(6410), 58–61. <https://doi.org/10.1126/science.aat4723>
- Hildreth, W., & Moorbath, S. (1988). Crustal contributions to arc magmatism in the Andes of Central Chile. *Contributions to Mineralogy and Petrology*, 98(4), 455–489. <https://doi.org/10.1007/BF00372365>
- Huchon, P., & Le Pichon, X. (1984). Sunda Strait and Central Sumatra fault. *Geology*, 12(11), 668. <https://doi.org/10.1130/0091-7602-12-11-668>

- 7613(1984)12<668:SSACSF>2.0.CO;2
- Jakeš, P., & White, A. J. R. (1970). ratios of rocks from island arcs. *Geochimica et Cosmochimica Acta*, 34(8), 849–856. [https://doi.org/10.1016/0016-7037\(70\)90123-7](https://doi.org/10.1016/0016-7037(70)90123-7)
- Jarrard, R. D. (1986). Relations among subduction parameters. *Reviews of Geophysics*, 24(2), 217. <https://doi.org/10.1029/RG024i002p00217>
- Jerram, D. A., & Bryan, S. E. (2015). Plumbing Systems of Shallow Level Intrusive Complexes. In *Advances in Volcanology* (pp. 39–60). https://doi.org/10.1007/11157_2015_8
- Jerram, D. A., Dobson, K. J., Morgan, D. J., & Pankhurst, M. J. (2018). The Petrogenesis of Magmatic Systems: Using Igneous Textures to Understand Magmatic Processes. In *Volcanic and Igneous Plumbing Systems* (pp. 191–229). Elsevier. <https://doi.org/10.1016/B978-0-12-809749-6.00008-X>
- Jerram, D. A., & Martin, V. M. (2008). Understanding crystal populations and their significance through the magma plumbing system. *Geological Society, London, Special Publications*, 304(1), 133–148. <https://doi.org/10.1144/SP304.7>
- Kimura, J. I., Gill, J. B., Kunikiyo, T., Osaka, I., Shimoshioiri, Y., Katakuse, M., Kakubuchi, S., Nagao, T., Furuyama, K., Kamei, A., Kawabata, H., Nakajima, J., Van Keken, P. E., & Stern, R. J. (2014). Diverse magmatic effects of subducting a hot slab in SW Japan: Results from forward modeling. *Geochemistry, Geophysics, Geosystems*, 15(3), 691–739. <https://doi.org/10.1002/2013GC005132>
- Kimura, J. I., & Yoshida, T. (2006). Contributions of slab fluid, mantle wedge and crust to the origin of quaternary lavas in the NE Japan arc. *Journal of Petrology*, 47(11), 2185–2232. <https://doi.org/10.1093/petrology/egl041>
- Kironi, B., Basuki, W., & Hamzah, I. (2013). *Kajian Geokimia Kompleks Gunung Api Gede Merak pada Calon Tapak PLTN Kramatwatu-Banten*. April, 700–706.
- Kopp, H., Flueh, E. R., Klaeschen, D., Bialas, J., & Reichert, C. (2001). Crustal structure of the central Sunda margin at the onset of oblique subduction. *Geophysical Journal International*, 147(2), 449–474. <https://doi.org/10.1046/j.0956-540x.2001.01547.x>
- Kurniawan, I. A., Suparka, E., Abdurrachman, M., & Hasenaka, T. (2013). Petrology and Geochemistry of Gede-Salak Volcano Northwest Java: Evolution of magmatic process. *IAVCEI*.
- Kurniawan, I. A., Suparka, E., Hasenaka, T., & Suparka, E. (2011). Quaternary Gede Salak volcanic complex , Banten area , at the junction between Sumatra arc and Java arc , Indonesia. *Japan Geoscience Union Meeting*.
- Li, L., Xiong, X. L., & Liu, X. C. (2017). Nb/Ta fractionation by amphibole in hydrous basaltic systems: Implications for arc magma evolution and continental crust formation. *Journal of Petrology*, 58(1), 3–28. <https://doi.org/10.1093/petrology/egw070>
- Linnen, R. L., & Keppler, H. (2002). Melt composition control of Zr/Hf fractionation in magmatic processes. *Geochimica et Cosmochimica Acta*, 66(18), 3293–3301. [https://doi.org/10.1016/S0016-7037\(02\)00924-9](https://doi.org/10.1016/S0016-7037(02)00924-9)

- Longpré, M.-A., Troll, V. R., & Hansteen, T. H. (2008). Upper mantle magma storage and transport under a Canarian shield-volcano, Teno, Tenerife (Spain). *Journal of Geophysical Research: Solid Earth*, 113(B8). <https://doi.org/10.1029/2007JB005422>
- MacDonald, R., Bagiński, B., Upton, B. G. J., Pinkerton, H., MacInnes, D. A., & MacGillivray, J. C. (2010). The Mull Palaeogene dyke swarm: insights into the evolution of the Mull igneous centre and dyke-emplacement mechanisms. *Mineralogical Magazine*, 74(4), 601–622. <https://doi.org/10.1180/minmag.2010.074.4.601>
- Malod, J. A., Karta, K., Beslier, M. O., & Zen, M. T. (1995). From normal to oblique subduction: Tectonic relationships between Java and Sumatra. *Journal of Southeast Asian Earth Sciences*, 12(1–2), 85–93. [https://doi.org/10.1016/0743-9547\(95\)00023-2](https://doi.org/10.1016/0743-9547(95)00023-2)
- Marsh, B. (2004). A magmatic mush column rosetta stone: The mcmurdo dry valleys of antarctica. *Eos*, 85(47). <https://doi.org/10.1029/2004EO470001>
- Martin, D. P., & Rose, W. I. (1981). Behavioral patterns of Fuego volcano, Guatemala. *Journal of Volcanology and Geothermal Research*, 10(1–3), 67–81. [https://doi.org/10.1016/0377-0273\(81\)90055-X](https://doi.org/10.1016/0377-0273(81)90055-X)
- Martin, V. M., Davidson, J., Morgan, D., & Jerram, D. A. (2010). Using the Sr isotope compositions of feldspars and glass to distinguish magma system components and dynamics. *Geology*, 38(6), 539–542. <https://doi.org/10.1130/G30758.1>
- McCulloch, M. T., & Gamble, J. A. (1991). Geochemical and geodynamical constraints on subduction zone magmatism. *Earth and Planetary Science Letters*, 102(3–4), 358–374. [https://doi.org/10.1016/0012-821X\(91\)90029-H](https://doi.org/10.1016/0012-821X(91)90029-H)
- Metcalfe, I. (2011). Tectonic framework and Phanerozoic evolution of Sundaland. *Gondwana Research*, 19(1), 3–21. <https://doi.org/10.1016/j.gr.2010.02.016>
- Nadeau, O., Williams-Jones, A. E., & Stix, J. (2013). Magmatic–hydrothermal evolution and devolatilization beneath Merapi volcano, Indonesia. *Journal of Volcanology and Geothermal Research*, 261, 50–68. <https://doi.org/10.1016/j.jvolgeores.2013.04.006>
- Nakamura, H., & Iwamori, H. (2009). Contribution of slab-fluid in arc magmas beneath the Japan arcs. *Gondwana Research*, 16(3–4), 431–445. <https://doi.org/10.1016/j.gr.2009.05.004>
- Nandedkar, R. H., Hürlimann, N., Ulmer, P., & Müntener, O. (2016). Amphibole–melt trace element partitioning of fractionating calc-alkaline magmas in the lower crust: an experimental study. *Contributions to Mineralogy and Petrology*, 171(8–9), 71. <https://doi.org/10.1007/s00410-016-1278-0>
- Neave, D. A., & Putirka, K. D. (2017). A new clinopyroxene-liquid barometer, and implications for magma storage pressures under Icelandic rift zones. *American Mineralogist*, 102(4), 777–794. <https://doi.org/10.2138/am-2017-5968>
- Newhall, C. G. (1979). Temporal variation in the lavas of Mayon volcano, Philippines. *Journal of Volcanology and Geothermal Research*, 6(1–2), 61–83. [https://doi.org/10.1016/0377-0273\(79\)90047-7](https://doi.org/10.1016/0377-0273(79)90047-7)
- Nishimura, S., Nishida, J., Yokoyama, T., & Hehuwat, F. (1986). Neo-tectonics of the Strait of Sunda, Indonesia. *Journal of Southeast Asian Earth Sciences*, 1(2),

- 81–91. [https://doi.org/10.1016/0743-9547\(86\)90023-1](https://doi.org/10.1016/0743-9547(86)90023-1)
- Ohba, T., Kimura, Y., & Fujimaki, H. (2007). High-Magnesian Andesite Produced by Two-Stage Magma Mixing: a Case Study from Hachimantai, Northern Honshu, Japan. *Journal of Petrology*, 48(3), 627–645. <https://doi.org/10.1093/petrology/egl075>
- Pearce, T. H. (1994). Recent Work on Oscillatory Zoning in Plagioclase. In I. Parson (Ed.), *Feldspars and their Reactions* (pp. 313–349). Springer. https://doi.org/10.1007/978-94-011-1106-5_8
- Perfit, M. R., Brueckner, H., Lawrence, J. R., & Kay, R. W. (1980). Trace element and isotopic variations in a zoned pluton and associated volcanic rocks, Unalaska Island, Alaska: A model for fractionation in the Aleutian calcalkaline suite. *Contributions to Mineralogy and Petrology*, 73(1), 69–87. <https://doi.org/10.1007/BF00376261>
- Plank, T., & Langmuir, C. H. (1998). The chemical composition of subducting sediment and its consequences for the crust and mantle. *Chemical Geology*, 145(3–4), 325–394. [https://doi.org/10.1016/S0009-2541\(97\)00150-2](https://doi.org/10.1016/S0009-2541(97)00150-2)
- Plechov, P. Y., Tsai, A. E., Shcherbakov, V. D., & Dirksen, O. V. (2008). Opacitization conditions of hornblende in Bezymyannyi volcano andesites (March 30, 1956 eruption). *Petrology*, 16(1), 19–35. <https://doi.org/10.1134/S0869591108010025>
- Pramumijoyo, S., & Sebrier, M. (1991). Neogene and quaternary fault kinematics around the Sunda Strait area, Indonesia. *Journal of Southeast Asian Earth Sciences*, 6(2), 137–145. [https://doi.org/10.1016/0743-9547\(91\)90106-8](https://doi.org/10.1016/0743-9547(91)90106-8)
- Preece, K., Gertisser, R., Barclay, J., Berlo, K., & Herd, R. A. (2014). Pre- and syn-eruptive degassing and crystallisation processes of the 2010 and 2006 eruptions of Merapi volcano, Indonesia. *Contributions to Mineralogy and Petrology*, 168(4), 1061. <https://doi.org/10.1007/s00410-014-1061-z>
- Putirka, K. D. (2008). Thermometers and Barometers for Volcanic Systems. *Reviews in Mineralogy and Geochemistry*, 69(1), 61–120. <https://doi.org/10.2138/rmg.2008.69.3>
- Putirka, K. D. (2016). Amphibole thermometers and barometers for igneous systems and some implications for eruption mechanisms of felsic magmas at arc volcanoes. *American Mineralogist*, 101(4), 841–858. <https://doi.org/10.2138/am-2016-5506>
- Ridolfi, F. (2021). Amp-TB2: An Updated Model for Calcic Amphibole Thermobarometry. *Minerals*, 11(3), 324. <https://doi.org/10.3390/min11030324>
- Ruprecht, P., & Wörner, G. (2007). Variable regimes in magma systems documented in plagioclase zoning patterns: El Misti stratovolcano and Andahua monogenetic cones. *Journal of Volcanology and Geothermal Research*, 165(3–4), 142–162. <https://doi.org/10.1016/j.jvolgeores.2007.06.002>
- Rusmana, E., Suwitodirjo, K., & Suharsono. (1991). *Geological Map of Serang Quadrangle, Jawa, scale 1:250.000*. Geological Research and Development Centre.
- Schlüter, H. U., Gaedicke, C., Roeser, H. A., Schreckenberger, B., Meyer, H.,

- Reichert, C., Djajadihardja, Y., & Prexl, A. (2002). Tectonic features of the southern Sumatra-western Java forearc of Indonesia. *Tectonics*, 21(5), 11-1-11–15. <https://doi.org/10.1029/2001TC901048>
- Shibata, T., Yoshimoto, M., Fujii, T., & Nakada, S. (2015). Geochemical and Sr–Nd isotopic characteristics of Quaternary Magmas from the Pre–Komitake volcano. *Journal of Mineralogical and Petrological Sciences*, 110(2), 65–70. <https://doi.org/10.2465/jmps.141022e>
- Siebert, L., Simkin, T., & Kimberly, P. (2010). *Volcanoes of The World* (Third Edit). University of California Press. <http://www.jstor.org/stable/10.1525/j.ctt1pnqdx>
- Sisson, T. W., & Grove, T. L. (1993). Experimental investigations of the role of H₂O in calc-alkaline differentiation and subduction zone magmatism. *Contributions to Mineralogy and Petrology*, 113(2), 143–166. <https://doi.org/10.1007/BF00283225>
- Soeria-Atmadja, R., Maury, R. C., Bellon, H., Pringgoprawiro, H., Polve, M., & Priadi, B. (1994). Tertiary magmatic belts in Java. *Journal of Southeast Asian Earth Sciences*, 9(1–2), 13–27. [https://doi.org/10.1016/0743-9547\(94\)90062-0](https://doi.org/10.1016/0743-9547(94)90062-0)
- Streck, M. J. (2008). Mineral Textures and Zoning as Evidence for Open System Processes. *Reviews in Mineralogy and Geochemistry*, 69(1), 595–622. <https://doi.org/10.2138/rmg.2008.69.15>
- Streck, M. J., Broderick, C. A., Thornber, C. R., Clyne, M. A., & Pallister, J. S. (2008). Plagioclase populations and zoning in dacite of the 2004–2005 Mount St. Helens eruption: Constraints for magma origin and dynamics. In D. R. Sherrod, W. E. Scott, & P. H. Stauffer (Eds.), *A Volcano Rekindled: The Renewed Eruption of Mount St. Helens, 2004–2006* (pp. 791–808). U.S. Geological Survey Professional Paper 1750. <https://doi.org/10.3133/pp175034>
- Streck, M. J., Leeman, W. P., & Chesley, J. (2007). High-magnesian andesite from Mount Shasta: A product of magma mixing and contamination, not a primitive mantle melt. *Geology*, 35(4), 351. <https://doi.org/10.1130/G23286A.1>
- Suntoko, H., & Mellawati, J. (2014). Studi Kelurusan Sesar Banten-1 di Calon Tapak. *Seminar Nasional Geologi Nuklir Dan Sumber Daya Tambang Tahun 2014*, 133–142.
- Suntoko, H., & Nugroho, A. (2011). Analisis Gradient Horizontal (Graviti) untuk Konfirmasi Awal Sesar Permukaan di Tapak Banten. *Jurnal Pengembangan Energi Nuklir*, 13(2), 72–80.
- Suntoko, H., Nurdin, M., Susilo, Y. S. B., & Hamzah, I. (2012). Pendekripsi Keberadaan Struktur Sesar pada Batuan Vulkanik dengan Metode Magnetik. *EKSPLORIUM*, 33(2), 111–120. <https://doi.org/http://dx.doi.org/10.17146/eksplorium.2012.33.2.2661>
- Susilohadi, S., Gaedicke, C., & Djajadihardja, Y. (2009). Structures and sedimentary deposition in the Sunda Strait, Indonesia. *Tectonophysics*, 467(1–4), 55–71. <https://doi.org/10.1016/j.tecto.2008.12.015>
- Syracuse, E. M., & Abers, G. A. (2006). Global compilation of variations in slab depth beneath arc volcanoes and implications. *Geochemistry, Geophysics, Geodynamics*,

- Geosystems*, 7(5), 1–18. <https://doi.org/10.1029/2005GC001045>
- Thirlwall, M. F., Graham, A. M., Arculus, R. J., Harmon, R. S., & Macpherson, C. G. (1996). Resolution of the effects of crustal assimilation, sediment subduction, and fluid transport in island arc magmas: PbSrNdO isotope geochemistry of Grenada, Lesser Antilles. *Geochimica et Cosmochimica Acta*, 60(23), 4785–4810. [https://doi.org/10.1016/S0016-7037\(96\)00272-4](https://doi.org/10.1016/S0016-7037(96)00272-4)
- Turner, S., & Foden, J. (2001). U, Th and Ra disequilibria, Sr, Nd and Pb isotope and trace element variations in Sunda arc lavas: predominance of a subducted sediment component. *Contributions to Mineralogy and Petrology*, 142(1), 43–57. <https://doi.org/10.1007/s004100100271>
- van Bemmelen, R. W. (1949). *The Geology of Indonesia* (Vol. 1A). Goverment Printing Office.
- Viccaro, M., Giacomoni, P. P., Ferlito, C., & Cristofolini, R. (2010). Dynamics of magma supply at Mt. Etna volcano (Southern Italy) as revealed by textural and compositional features of plagioclase phenocrysts. *Lithos*, 116(1–2), 77–91. <https://doi.org/10.1016/j.lithos.2009.12.012>
- Vroon, P. ., Lowry, D., van Bergen, M. ., Boyce, A. ., & Matthey, D. . (2001). Oxygen isotope systematics of the Banda Arc: low $\delta^{18}\text{O}$ despite involvement of subducted continental material in magma genesis. *Geochimica et Cosmochimica Acta*, 65(4), 589–609. [https://doi.org/10.1016/S0016-7037\(00\)00554-8](https://doi.org/10.1016/S0016-7037(00)00554-8)
- Wibowo, H. E. (2017). *Petrological and Geochemical Study of Sundoro Volcano, Central Java, Indonesia : Temporal Variation in Differentiation and Source Processes in the Growth of an Individual Volcano* [Hokkaido University]. <https://doi.org/http://doi.org/10.14943/doctoral.k12699>
- Wibowo, H. E., Nakagawa, M., Kuritani, T., Furukawa, R., Prambada, O., & 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*, 63(9). <https://doi.org/10.1093/petrology/egac083>
- Widagdo, A., Setijadi, R., Waluyo, G., & Purwasatriya, E. B. (2021). Kehadiran Patahan Geologi di Daerah Bojanegara, Kabupaten Serang, Propinsi Banten. *GEOSAPTA*, 7(2), 79. <https://doi.org/10.20527/jg.v7i2.9439>
- Widiyantoro, S., & van der Hilst, R. (1996). Structure and Evolution of Lithospheric Slab Beneath the Sunda Arc, Indonesia. *Science*, 271(5255), 1566–1570. <https://doi.org/10.1126/science.271.5255.1566>
- Widiyantoro, S., & van der Hilst, R. (1997). Mantle structure beneath Indonesia inferred from high-resolution tomographic imaging. *Geophysical Journal International*, 130(1), 167–182. <https://doi.org/10.1111/j.1365-246X.1997.tb00996.x>