

Ralf Gertisser

List of Publications by Year in descending order

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71
papers

2,739
citations

172457

29
h-index

182427

51
g-index

80
all docs

80
docs citations

80
times ranked

2502
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Eruption Style, Emplacement Dynamics and Geometry of Peralkaline Ignimbrites: Insights From the Lajes-Angra Ignimbrite Formation, Terceira Island, Azores. <i>Frontiers in Earth Science</i> , 2021, 9, . | 1.8 | 7 |
| 2 | Eruptive activity of the Santorini Volcano controlled by sea-level rise and fall. <i>Nature Geoscience</i> , 2021, 14, 586-592. | 12.9 | 35 |
| 3 | Advancing Santorini's tephrostratigraphy: New glass geochemical data and improved marine-terrestrial tephra correlations for the past ~14360 kyrs. <i>Earth-Science Reviews</i> , 2020, 200, 102964. | 9.1 | 31 |
| 4 | Constraining the landscape of Late Bronze Age Santorini prior to the Minoan eruption: Insights from volcanological, geomorphological and archaeological findings. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 401, 106911. | 2.1 | 10 |
| 5 | Braided peridotite sills and metasomatism in the Rum Layered Suite, Scotland. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 17. | 3.1 | 17 |
| 6 | Magmatic and Metasomatic Effects of Magma-Carbonate Interaction Recorded in Calc-silicate Xenoliths from Merapi Volcano (Indonesia). <i>Journal of Petrology</i> , 2020, 61, . | 2.8 | 22 |
| 7 | Rapid crystallization of precious-metal-mineralized layers in mafic magmatic systems. <i>Nature Geoscience</i> , 2020, 13, 375-381. | 12.9 | 18 |
| 8 | Magmatic evolution and textural development of the 1739 CE Pietre Cotte lava flow, Vulcano, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 372, 1-23. | 2.1 | 11 |
| 9 | Crustal CO ₂ contribution to subduction zone degassing recorded through calc-silicate xenoliths in arc lavas. <i>Scientific Reports</i> , 2019, 9, 8803. | 3.3 | 28 |
| 10 | When the gods are angry: volcanic crisis and eruption at Bali's great volcano. <i>Geology Today</i> , 2018, 34, 62-65. | 0.9 | 3 |
| 11 | Emplacement of the Rocche Rosse rhyolite lava flow (Lipari, Aeolian Islands). <i>Bulletin of Volcanology</i> , 2018, 80, 1. | 3.0 | 22 |
| 12 | Towards reconstruction of the lost Late Bronze Age intra-caldera island of Santorini, Greece. <i>Scientific Reports</i> , 2018, 8, 7026. | 3.3 | 20 |
| 13 | Timescales of magma ascent and degassing and the role of crustal assimilation at Merapi volcano (2006-2010), Indonesia: Constraints from uranium-series and radiogenic isotopic compositions. <i>Geochimica Et Cosmochimica Acta</i> , 2018, 222, 34-52. | 3.9 | 19 |
| 14 | Peralkaline Felsic Magmatism of the Atlantic Islands. <i>Frontiers in Earth Science</i> , 2018, 6, . | 1.8 | 29 |
| 15 | The cryptotephra record of the Marine Isotope Stage 12 to 10 interval (460-335 ka) at Tenaghi Philippon, Greece: Exploring chronological markers for the Middle Pleistocene of the Mediterranean region. <i>Quaternary Science Reviews</i> , 2018, 200, 313-333. | 3.0 | 23 |
| 16 | Structural features and stability of Spanish sepiolite as a potential catalyst. <i>Applied Clay Science</i> , 2018, 162, 297-304. | 5.2 | 16 |
| 17 | Linking In Situ Crystallization and Magma Replenishment via Sill Intrusion in the Rum Western Layered Intrusion, NW Scotland. <i>Journal of Petrology</i> , 2018, 59, 1605-1642. | 2.8 | 18 |
| 18 | C. Klein & A. Philpotts 2013. <i>Earth Materials: Introduction to Mineralogy and Petrology</i> . Cambridge University Press. Price £40.00. ISBN: 9780521145213 (PB). <i>Geological Magazine</i> , 2017, 154, . | 1.5 | 0 |

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|----|---|------|-----------|
| 19 | Incremental Construction of the Unit 10 Peridotite, Rum Eastern Layered Intrusion, NW Scotland. <i>Journal of Petrology</i> , 2017, 58, 137-166. | 2.8 | 17 |
| 20 | The youngest volcanic eruptions in East-Central Europe" new findings from the Ciomadul lava dome complex, East Carpathians, Romania. <i>Geology Today</i> , 2017, 33, 60-65. | 0.9 | 3 |
| 21 | Petrogenesis of the Peralkaline Ignimbrites of Terceira, Azores. <i>Journal of Petrology</i> , 2017, 58, 2365-2402. | 2.8 | 21 |
| 22 | On the compositional variability of dalyite, K ₂ ZrSi ₆ O ₁₅ : a new occurrence from Terceira, Azores. <i>Mineralogical Magazine</i> , 2016, 80, 547-565. | 1.4 | 10 |
| 23 | Temporal evolution of a post-caldera, mildly peralkaline magmatic system: Furnas volcano, S o Miguel, Azores. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 1. | 3.1 | 32 |
| 24 | Transitions between explosive and effusive phases during the cataclysmic 2010 eruption of Merapi volcano, Java, Indonesia. <i>Bulletin of Volcanology</i> , 2016, 78, 54. | 3.0 | 51 |
| 25 | The "Roxolany Tephra" (Ukraine) " new evidence for an origin from Ciomadul volcano, East Carpathians. <i>Journal of Quaternary Science</i> , 2016, 31, 565-576. | 2.1 | 22 |
| 26 | The latest explosive eruptions of Ciomadul (Csom id) volcano, East Carpathians " A tephrostratigraphic approach for the 51 "29 ka BP time interval. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 319, 29-51. | 2.1 | 46 |
| 27 | Geophysical surveys to help map buried igneous intrusions, Snowdonia, North Wales, UK. <i>Geology Today</i> , 2015, 31, 109-115. | 0.9 | 0 |
| 28 | The great 1815 eruption of Tambora and future risks from large-scale volcanism. <i>Geology Today</i> , 2015, 31, 132-136. | 0.9 | 7 |
| 29 | The major and trace element glass compositions of the productive Mediterranean volcanic sources: tools for correlating distal tephra layers in and around Europe. <i>Quaternary Science Reviews</i> , 2015, 118, 48-66. | 3.0 | 108 |
| 30 | Tying down eruption risk. <i>Nature Geoscience</i> , 2015, 8, 248-250. | 12.9 | 9 |
| 31 | Pre- and syn-eruptive degassing and crystallisation processes of the 2010 and 2006 eruptions of Merapi volcano, Indonesia. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1. | 3.1 | 43 |
| 32 | Pumice deposits of the Santorini Lower Pumice 2 eruption on Anafi island, Greece: Indications for a Plinian event of exceptional magnitude. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 278-279, 120-128. | 2.1 | 18 |
| 33 | Insights from Pb and O isotopes into along-arc variations in subduction inputs and crustal assimilation for volcanic rocks in Java, Sunda arc, Indonesia. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 139, 205-226. | 3.9 | 29 |
| 34 | The pre-eruptive magma plumbing system of the 2007 "2008 dome-forming eruption of Kelut volcano, East Java, Indonesia. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 275-308. | 3.1 | 68 |
| 35 | Evaluation of the impact of the 2010 pyroclastic density currents at Merapi volcano from high-resolution satellite imagery, field investigations and numerical simulations. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 261, 295-315. | 2.1 | 100 |
| 36 | Textural and micro-petrological variations in the eruptive products of the 2006 dome-forming eruption of Merapi volcano, Indonesia: Implications for sub-surface processes. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 261, 98-120. | 2.1 | 51 |

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|----|---|-----|-----------|
| 37 | Magma Rheology Variations in Sheet Intrusions of the Ardnamurchan Central Complex (Scotland) Inferred from Gabbro Inclusion Characteristics. <i>Journal of Petrology</i> , 2013, 54, 75-102. | 2.8 | 11 |
| 38 | Textural characterization, major and volatile element quantification and Ar ⁴⁰ /Ar systematics of spherulites in the Rocche Rosse obsidian flow, Lipari, Aeolian Islands: a temperature continuum growth model. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 373-395. | 3.1 | 21 |
| 39 | Compositionally heterogeneous podiform chromitite in the Shetland Ophiolite Complex (Scotland): Implications for chromitite petrogenesis and late-stage alteration in the upper mantle portion of a supra-subduction zone ophiolite. <i>Lithos</i> , 2013, 162-163, 279-300. | 1.4 | 53 |
| 40 | Magmatic differentiation processes at Merapi Volcano: inclusion petrology and oxygen isotopes. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 261, 38-49. | 2.1 | 49 |
| 41 | Paroxysmal dome explosion during the Merapi 2010 eruption: Processes and facies relationships of associated high-energy pyroclastic density currents. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 261, 260-294. | 2.1 | 144 |
| 42 | Chapter 9 Eruptive history and magmatic evolution of the island of Salina (central Aeolian) <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 542 Td</i> | 1.7 | 26 |
| 43 | Crustal Differentiation Processes at Krakatau Volcano, Indonesia. <i>Journal of Petrology</i> , 2013, 54, 149-182. | 2.8 | 33 |
| 44 | Processes and Timescales of Magma Genesis and Differentiation Leading to the Great Tambora Eruption in 1815. <i>Journal of Petrology</i> , 2012, 53, 271-297. | 2.8 | 37 |
| 45 | The geological evolution of Merapi volcano, Central Java, Indonesia. <i>Bulletin of Volcanology</i> , 2012, 74, 1213-1233. | 3.0 | 77 |
| 46 | Spatial, temporal and geochemical evolution of Oligo-Miocene granitoid magmatism in western Anatolia, Turkey. <i>Gondwana Research</i> , 2012, 21, 961-986. | 6.0 | 101 |
| 47 | Snapshots of ancient oceanic mantle captured in British and Irish ophiolites. <i>Geology Today</i> , 2012, 28, 134-140. | 0.9 | 2 |
| 48 | Variations in welding characteristics within the Plinian air-fall deposit of the Middle Pumice eruption, Santorini, Greece. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 221-222, 71-82. | 2.1 | 6 |
| 49 | Evaluation of geophysical mass flow models using the 2006 block-and-ash flows of Merapi Volcano, Java, Indonesia: Towards a short-term hazard assessment tool. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 231-232, 87-108. | 2.1 | 66 |
| 50 | Overbank block-and-ash flow deposits and the impact of valley-derived, unconfined flows on populated areas at Merapi volcano, Java, Indonesia. <i>Natural Hazards</i> , 2012, 60, 623-648. | 3.4 | 40 |
| 51 | Hf ¹⁷⁶ /Nd isotope and trace element constraints on subduction inputs at island arcs: Limitations of Hf anomalies as sediment input indicators. <i>Earth and Planetary Science Letters</i> , 2011, 304, 212-223. | 4.4 | 81 |
| 52 | Deposit architecture and dynamics of the 2006 block-and-ash flows of Merapi Volcano, Java, Indonesia. <i>Sedimentology</i> , 2011, 58, 1573-1612. | 3.1 | 50 |
| 53 | Merapi (Java, Indonesia): anatomy of a killer volcano. <i>Geology Today</i> , 2011, 27, 57-62. | 0.9 | 29 |
| 54 | Ignimbrite stratigraphy and chronology on Terceira Island, Azores. , 2010, , . | | 17 |

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| 55 | Borobudur, a basin under volcanic influence: 361,000years BP to present. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 196, 245-264. | 2.1 | 17 |
| 56 | Eyjafjallajökull volcano causes widespread disruption to European air traffic. <i>Geology Today</i> , 2010, 26, 94-95. | 0.9 | 38 |
| 57 | The Plinian Lower Pumice 2 eruption, Santorini, Greece: Magma evolution and volatile behaviour. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 186, 387-406. | 2.1 | 50 |
| 58 | Assimilation and diffusion during xenolith-magma interaction: a case study of the Variscan Karkonosze Granite, Bohemian Massif. <i>Mineralogy and Petrology</i> , 2009, 97, 203-222. | 1.1 | 8 |
| 59 | Numerical simulations of block-and-ash flows using the Titan2D flow model: examples from the 2006 eruption of Merapi Volcano, Java, Indonesia. <i>Bulletin of Volcanology</i> , 2009, 71, 953-959. | 3.0 | 68 |
| 60 | Field observations and surface characteristics of pristine block-and-ash flow deposits from the 2006 eruption of Merapi Volcano, Java, Indonesia. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 177, 971-982. | 2.1 | 129 |
| 61 | Carbonate Assimilation at Merapi Volcano, Java, Indonesia: Insights from Crystal Isotope Stratigraphy. <i>Journal of Petrology</i> , 2007, 48, 1793-1812. | 2.8 | 130 |
| 62 | Interplinian explosive activity of Santorini volcano (Greece) during the past 150,000 years. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 153, 262-286. | 2.1 | 40 |
| 63 | WHITE, J. D. L., SMELLIE, J. L. & CLAGUE, D. A. (eds) 2005. <i>Explosive Subaqueous Volcanism</i> . Geophysical Monograph Series Vol. 140. x + 379 pp. Washington DC: American Geophysical Union. Price US \$90.00 (hard covers); AGU members' price US \$63.00. ISBN 0 87590 999 X. <i>Geological Magazine</i> , 2006, 143, 937-938. | 1.5 | 0 |
| 64 | OPPENHEIMER, C., PYLE, D. M. & BARCLAY, J. (eds) 2003. <i>Volcanic Degassing</i> . Geological Society Special Publication no. 213. vi+420 pp. London, Bath: Geological Society of London. Price £100.00, US \$167.00; members' price £50.00, US \$84.00; AAPG members' price £60.00, US \$100.00 (hard covers). ISBN 1 86239 136 X. <i>Geological Magazine</i> , 2005, 142, 221-222. | 1.5 | 0 |
| 65 | ²²⁶ Ra or ²²⁶ Ra/ ^{Ba} dating of Holocene volcanic rocks: application to Mt. Etna and Merapi volcanoes. <i>Earth and Planetary Science Letters</i> , 2005, 230, 289-300. | 4.4 | 12 |
| 66 | GUEST, J., COLE, P., DUNCAN, A. & CHESTER, D. 2003. <i>Volcanoes of Southern Italy</i> . Earth in View Series. ix + 284 pp. London, Bath: Geological Society of London. Price £65.00 (paperback). ISBN 1 86239 138 6. <i>Geological Magazine</i> , 2004, 141, 745-745. | 1.5 | 0 |
| 67 | Magma volume, volatile emissions, and stratospheric aerosols from the 1815 eruption of Tambora. <i>Geophysical Research Letters</i> , 2004, 31, . | 4.0 | 133 |
| 68 | Temporal variations in magma composition at Merapi Volcano (Central Java, Indonesia): magmatic cycles during the past 2000 years of explosive activity. <i>Journal of Volcanology and Geothermal Research</i> , 2003, 123, 1-23. | 2.1 | 85 |
| 69 | Trace Element and Sr, Nd, Pb and O Isotope Variations in Medium-K and High-K Volcanic Rocks from Merapi Volcano, Central Java, Indonesia: Evidence for the Involvement of Subducted Sediments in Sunda Arc Magma Genesis. <i>Journal of Petrology</i> , 2003, 44, 457-489. | 2.8 | 158 |
| 70 | From basalt to dacite: origin and evolution of the calc-alkaline series of Salina, Aeolian Arc, Italy. <i>Contributions To Mineralogy and Petrology</i> , 2000, 139, 607-626. | 3.1 | 55 |
| 71 | Geochemistry and provenance of Devonian-Carboniferous volcano-sedimentary sequences from the Southern Vosges Basin and the geodynamic implications for the western Moldanubian Zone. <i>Geological Society Special Publication</i> , 2000, 179, 433-444. | 1.3 | 6 |