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	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. Journal of Petrology, 2003, 44, 457-489.	2.8	158
2	Paroxysmal dome explosion during the Merapi 2010 eruption: Processes and facies relationships of associated high-energy pyroclastic density currents. Journal of Volcanology and Geothermal Research, 2013, 261, 260-294.	2.1	144
3	Magma volume, volatile emissions, and stratospheric aerosols from the 1815 eruption of Tambora. Geophysical Research Letters, 2004, 31, .	4.0	133
4	Carbonate Assimilation at Merapi Volcano, Java, Indonesia: Insights from Crystal Isotope Stratigraphy. Journal of Petrology, 2007, 48, 1793-1812.	2.8	130
5	Field observations and surface characteristics of pristine block-and-ash flow deposits from the 2006 eruption of Merapi Volcano, Java, Indonesia. Journal of Volcanology and Geothermal Research, 2008, 177, 971-982.	2.1	129
6	The major and trace element glass compositions of the productive Mediterranean volcanic sources: tools for correlating distal tephra layers in and around Europe. Quaternary Science Reviews, 2015, 118, 48-66.	3.0	108
7	Spatial, temporal and geochemical evolution of Oligoâ€“Miocene granitoid magmatism in western Anatolia, Turkey. Gondwana Research, 2012, 21, 961-986.	6.0	101
8	Evaluation of the impact of the 2010 pyroclastic density currents at Merapi volcano from high-resolution satellite imagery, field investigations and numerical simulations. Journal of Volcanology and Geothermal Research, 2013, 261, 295-315.	2.1	100
9	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, 2003, 123, 1-23.	2.1	85
10	Hfâ€“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, 2011, 304, 212-223.	4.4	81
11	The geological evolution of Merapi volcano, Central Java, Indonesia. Bulletin of Volcanology, 2012, 74, 1213-1233.	3.0	77
12	Numerical simulations of block-and-ash flows using the Titan2D flow model: examples from the 2006 eruption of Merapi Volcano, Java, Indonesia. Bulletin of Volcanology, 2009, 71, 953-959.	3.0	68
13	The pre-eruptive magma plumbing system of the 2007â€“2008 dome-forming eruption of Kelut volcano, East Java, Indonesia. Contributions To Mineralogy and Petrology, 2013, 166, 275-308.	3.1	68
14	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. Journal of Volcanology and Geothermal Research, 2012, 231-232, 87-108.	2.1	66
15	From basalt to dacite: origin and evolution of the calc-alkaline series of Salina, Aeolian Arc, Italy. Contributions To Mineralogy and Petrology, 2000, 139, 607-626.	3.1	55
16	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. Lithos, 2013, 162-163, 279-300.	1.4	53
17	Textural and micro-petrological variations in the eruptive products of the 2006 dome-forming eruption of Merapi volcano, Indonesia: Implications for sub-surface processes. Journal of Volcanology and Geothermal Research, 2013, 261, 98-120.	2.1	51
18	Transitions between explosive and effusive phases during the cataclysmic 2010 eruption of Merapi volcano, Java, Indonesia. Bulletin of Volcanology, 2016, 78, 54.	3.0	51

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19	The Plinian Lower Pumice 2 eruption, Santorini, Greece: Magma evolution and volatile behaviour. Journal of Volcanology and Geothermal Research, 2009, 186, 387-406.	2.1	50
20	Deposit architecture and dynamics of the 2006 blockâ€andâ€ash flows of Merapi Volcano, Java, Indonesia. Sedimentology, 2011, 58, 1573-1612.	3.1	50
21	Magmatic differentiation processes at Merapi Volcano: inclusion petrology and oxygen isotopes. Journal of Volcanology and Geothermal Research, 2013, 261, 38-49.	2.1	49
22	The latest explosive eruptions of Ciomadul (CsomÃ¡d) volcano, East Carpathians â€" A tephrostratigraphic approach for the 51â€"29 ka BP time interval. Journal of Volcanology and Geothermal Research, 2016, 319, 29-51.	2.1	46
23	Pre- and syn-eruptive degassing and crystallisation processes of the 2010 and 2006 eruptions of Merapi volcano, Indonesia. Contributions To Mineralogy and Petrology, 2014, 168, 1.	3.1	43
24	Interplinian explosive activity of Santorini volcano (Greece) during the past 150,000 years. Journal of Volcanology and Geothermal Research, 2006, 153, 262-286.	2.1	40
25	Overbank block-and-ash flow deposits and the impact of valley-derived, unconfined flows on populated areas at Merapi volcano, Java, Indonesia. Natural Hazards, 2012, 60, 623-648.	3.4	40
26	EyjafjallajÃ¶kull volcano causes widespread disruption to European air traffic. Geology Today, 2010, 26, 94-95.	0.9	38
27	Processes and Timescales of Magma Genesis and Differentiation Leading to the Great Tambora Eruption in 1815. Journal of Petrology, 2012, 53, 271-297.	2.8	37
28	Eruptive activity of the Santorini Volcano controlled by sea-level rise and fall. Nature Geoscience, 2021, 14, 586-592.	12.9	35
29	Crustal Differentiation Processes at Krakatau Volcano, Indonesia. Journal of Petrology, 2013, 54, 149-182.	2.8	33
30	Temporal evolution of a post-caldera, mildly peralkaline magmatic system: Furnas volcano, SÃ£o Miguel, Azores. Contributions To Mineralogy and Petrology, 2016, 171, 1.	3.1	32
31	Advancing Santoriniâ€™s tephrostratigraphy: New glass geochemical data and improved marine-terrestrial tephra correlations for the past â¼360 kyrs. Earth-Science Reviews, 2020, 200, 102964.	9.1	31
32	Merapi (Java, Indonesia): anatomy of a killer volcano. Geology Today, 2011, 27, 57-62.	0.9	29
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. Geochimica Et Cosmochimica Acta, 2014, 139, 205-226.	3.9	29
34	Peralkaline Felsic Magmatism of the Atlantic Islands. Frontiers in Earth Science, 2018, 6, .	1.8	29
35	Crustal CO2 contribution to subduction zone degassing recorded through calc-silicate xenoliths in arc lavas. Scientific Reports, 2019, 9, 8803.	3.3	28
36	Chapter 9 Eruptive history and magmatic evolution of the island of Salina (central Aeolian) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (	1.7	26

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37	The cryptotephra record of the Marine Isotope Stage 12 to 10 interval (460â€“335 ka) at Tenaghi Philippon, Greece: Exploring chronological markers for the Middle Pleistocene of the Mediterranean region. Quaternary Science Reviews, 2018, 200, 313-333.	3.0	23
38	The â€˜Roxolany Tephraâ€™ (Ukraine) â^' new evidence for an origin from Ciomadul volcano, East Carpathians. Journal of Quaternary Science, 2016, 31, 565-576.	2.1	22
39	Emplacement of the Rocche Rosse rhyolite lava flow (Lipari, Aeolian Islands). Bulletin of Volcanology, 2018, 80, 1.	3.0	22
40	Magmatic and Metasomatic Effects of Magmaâ€“Carbonate Interaction Recorded in Calc-silicate Xenoliths from Merapi Volcano (Indonesia). Journal of Petrology, 2020, 61, .	2.8	22
41	Textural characterization, major and volatile element quantification and Arâ€“Ar systematics of spherulites in the Rocche Rosse obsidian flow, Lipari, Aeolian Islands: a temperature continuum growth model. Contributions To Mineralogy and Petrology, 2013, 165, 373-395.	3.1	21
42	Petrogenesis of the Peralkaline Ignimbrites of Terceira, Azores. Journal of Petrology, 2017, 58, 2365-2402.	2.8	21
43	Towards reconstruction of the lost Late Bronze Age intra-caldera island of Santorini, Greece. Scientific Reports, 2018, 8, 7026.	3.3	20
44	Timescales of magma ascent and degassing and the role of crustal assimilation at Merapi volcano (2006â€“2010), Indonesia: Constraints from uranium-series and radiogenic isotopic compositions. Geochimica Et Cosmochimica Acta, 2018, 222, 34-52.	3.9	19
45	Pumice deposits of the Santorini Lower Pumice 2 eruption on Anafi island, Greece: Indications for a Plinian event of exceptional magnitude. Journal of Volcanology and Geothermal Research, 2014, 278-279, 120-128.	2.1	18
46	Linking In Situ Crystallization and Magma Replenishment via Sill Intrusion in the Rum Western Layered Intrusion, NW Scotland. Journal of Petrology, 2018, 59, 1605-1642.	2.8	18
47	Rapid crystallization of precious-metal-mineralized layers in mafic magmatic systems. Nature Geoscience, 2020, 13, 375-381.	12.9	18
48	Ignimbrite stratigraphy and chronology on Terceira Island, Azores. , 2010, , .		17
49	Borobudur, a basin under volcanic influence: 361,000years BP to present. Journal of Volcanology and Geothermal Research, 2010, 196, 245-264.	2.1	17
50	Incremental Construction of the Unit 10 Peridotite, Rum Eastern Layered Intrusion, NW Scotland. Journal of Petrology, 2017, 58, 137-166.	2.8	17
51	Braided peridotite sills and metasomatism in the Rum Layered Suite, Scotland. Contributions To Mineralogy and Petrology, 2020, 175, 17.	3.1	17
52	Structural features and stability of Spanish sepiolite as a potential catalyst. Applied Clay Science, 2018, 162, 297-304.	5.2	16
53	226Ra or 226Ra/Ba dating of Holocene volcanic rocks: application to Mt. Etna and Merapi volcanoes. Earth and Planetary Science Letters, 2005, 230, 289-300.	4.4	12
54	Magma Rheology Variations in Sheet Intrusions of the Ardnamurchan Central Complex (Scotland) Inferred from Gabbro Inclusion Characteristics. Journal of Petrology, 2013, 54, 75-102.	2.8	11

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55	Magmatic evolution and textural development of the 1739 CE Pietre Cotte lava flow, Vulcano, Italy. Journal of Volcanology and Geothermal Research, 2019, 372, 1-23.	2.1	11
56	On the compositional variability of dalyite, K2ZrSi6O15: a new occurrence from Terceira, Azores. Mineralogical Magazine, 2016, 80, 547-565.	1.4	10
57	Constraining the landscape of Late Bronze Age Santorini prior to the Minoan eruption: Insights from volcanological, geomorphological and archaeological findings. Journal of Volcanology and Geothermal Research, 2020, 401, 106911.	2.1	10
58	Tying down eruption risk. Nature Geoscience, 2015, 8, 248-250.	12.9	9
59	Assimilation and diffusion during xenolith-magma interaction: a case study of the Variscan Karkonosze Granite, Bohemian Massif. Mineralogy and Petrology, 2009, 97, 203-222.	1.1	8
60	The great 1815 eruption of Tambora and future risks from largeâ€scale volcanism. Geology Today, 2015, 31, 132-136.	0.9	7
61	Eruption Style, Emplacement Dynamics and Geometry of Peralkaline Ignimbrites: Insights From the Lajes-Angra Ignimbrite Formation, Terceira Island, Azores. Frontiers in Earth Science, 2021, 9, .	1.8	7
62	Geochemistry and provenance of Devono-Carboniferous volcano-sedimentary sequences from the Southern Vosges Basin and the geodynamic implications for the western Moldanubian Zone. Geological Society Special Publication, 2000, 179, 433-444.	1.3	6
63	Variations in welding characteristics within the Plinian air-fall deposit of the Middle Pumice eruption, Santorini, Greece. Journal of Volcanology and Geothermal Research, 2012, 221-222, 71-82.	2.1	6
64	The youngest volcanic eruptions in Eastâ€Central Europeâ€"new findings from the Ciomadul lava dome complex, East Carpathians, Romania. Geology Today, 2017, 33, 60-65.	0.9	3
65	When the gods are angry: volcanic crisis and eruption at Bali's great volcano. Geology Today, 2018, 34, 62-65.	0.9	3
66	Snapshots of ancient oceanic mantle captured in British and Irish ophiolites. Geology Today, 2012, 28, 134-140.	0.9	2
67	GUEST, J., COLE, P., DUNCAN, A. & CHESTER, D. 2003. Volcanoes of Southern Italy. Earth in View Series. ix + 284 pp. London, Bath: Geological Society of London. Price Â£65.00 (paperback). ISBN 1 86239 138 6. Geological Magazine, 2004, 141, 745-745.	1.5	0
68	OPPENHEIMER, C., PYLE, D. M. & BARCLAY, J. (eds) 2003. Volcanic Degassing. Geological Society Special Publication no. 213. vi+420 pp. London, Bath: Geological Society of London. Price Â£100.00, US $167.00; members' price Â£50.00, US $84.00; AAPG members' price Â£60.00, US $100.00 (hard covers). ISBN 1 86239 136 X. Geological Magazine, 2005, 142, 221-222.	1.5	0
69	WHITE, J. D. L., SMELLIE, J. L. & CLAGUE, D. A. (eds) 2005. Explosive Subaqueous Volcanism. 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. Geological Magazine, 2006, 143, 937-938.	1.5	0
70	Geophysical surveys to help map buried igneous intrusions, Snowdonia, North Wales, UK. Geology Today, 2015, 31, 109-115.	0.9	0
71	C. Klein & A. Philpotts 2013. Earth Materials: Introduction to Mineralogy and Petrology. Cambridge University Press. Price Â£40.00. ISBN: 9780521145213 (PB). Geological Magazine, 2017, 154, .	1.5	0