Simon Barker

List of Publications by Year in descending order

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30 papers	748 citations	471509 17 h-index	526287 27 g-index
32 all docs	32 docs citations	32 times ranked	770 citing authors

#	Article	IF	Citations
1	Geochemistry and Petrogenesis of Silicic Magmas in the Intra-Oceanic Kermadec Arc. Journal of Petrology, 2013, 54, 351-391.	2.8	72
2	Rapid priming, accumulation, and recharge of magma driving recent eruptions at a hyperactive caldera volcano. Geology, 2016, 44, 323-326.	4.4	55
3	A cascade of magmatic events during the assembly and eruption of a super-sized magma body. Contributions To Mineralogy and Petrology, 2017, 172, 1.	3.1	53
4	Post-supereruption Magmatic Reconstruction of Taupo Volcano (New Zealand), as Reflected in Zircon Ages and Trace Elements. Journal of Petrology, 2014, 55, 1511-1533.	2.8	49
5	Fine-scale temporal recovery, reconstruction and evolution of a post-supereruption magmatic system. Contributions To Mineralogy and Petrology, 2015, 170, 1.	3.1	45
6	What lies beneath? Reconstructing the primitive magmas fueling voluminous silicic volcanism using olivine-hosted melt inclusions. Geology, 2020, 48, 504-508.	4.4	41
7	Evolution of submarine eruptive activity during the 2011â€“2012 <scp>E</scp>l <scp>H</scp>ierro event as documented by hydroacoustic images and remotely operated vehicle observations. Geochemistry, Geophysics, Geosystems, 2017, 18, 3109-3137.	2.5	40
8	TaupÅ: an overview of New Zealand's youngest supervolcano. New Zealand Journal of Geology, and Geophysics, 2021, 64, 320-346.	1.8	39
9	Dynamics of deep submarine silicic explosive eruptions in the Kermadec arc, as reflected in pumice vesicularity textures. Journal of Volcanology and Geothermal Research, 2015, 301, 314-332.	2.1	38
10	Post-caldera volcanism reveals shallow priming of an intra-ocean arc andesitic caldera: Hunga volcano, Tonga, SW Pacific. Lithos, 2022, 412-413, 106614.	1.4	38
11	New Volcanic Island Unveils Explosive Past. Eos, 2017, , .	0.1	37
12	Highly vesicular pumice generated by buoyant detachment of magma in subaqueous volcanism. Nature Geoscience, 2013, 6, 129-132.	12.9	34
13	Contrasting pyroclast density spectra from subaerial and submarine silicic eruptions in the Kermadec arc: implications for eruption processes and dredge sampling. Bulletin of Volcanology, 2012, 74, 1425-1443.	3.0	28
14	No single model for supersized eruptions and their magma bodies. Nature Reviews Earth & Environment, 2021, 2, 610-627.	29.7	25
15	Bubble development in explosive silicic eruptions: insights from pyroclast vesicularity textures from Raoul volcano (Kermadec arc). Bulletin of Volcanology, 2014, 76, 1.	3.0	23
16	Volcanic Unrest at TaupÅ•Volcano in 2019: Causes, Mechanisms and Implications. Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009803.	2.5	21
17	Modeling Ash Dispersal From Future Eruptions of Taupo Supervolcano. Geochemistry, Geophysics, Geosystems, 2019, 20, 3375-3401.	2.5	18
18	Textural and micro-analytical insights into maficâ€“felsic interactions during the Oruanui eruption, Taupo. Contributions To Mineralogy and Petrology, 2018, 173, 1.	3.1	15

#	Article	IF	Citations
19	Comment on â€œRapid cooling and cold storage in a silicic magma reservoir recorded in individual crystalsâ€• Science, 2017, 358, .	12.6	13
20	The Origin of Rhyolitic Magmas at Krafla Central Volcano (Iceland). Journal of Petrology, 2021, 62, .	2.8	12
21	Earthquake Analysis Suggests Dyke Intrusion in 2019 Near Tarawera Volcano, New Zealand. Frontiers in Earth Science, 2021, 8, .	1.8	11
22	Emplacement of unusual rhyolitic to basaltic ignimbrites during collapse of a basalt-dominated caldera: The HalarauÃ°ur eruption, Krafla (Iceland). Bulletin of the Geological Society of America, 2020, 132, 1881-1902.	3.3	10
23	Crustal evolution leading to successive rhyolitic supereruptions in the Jemez Mountains volcanic field, New Mexico, USA. Lithos, 2021, 396-397, 106201.	1.4	8
24	Stretching, Shaking, Inflating: Volcanic-Tectonic Interactions at a Rifting Silicic Caldera. Frontiers in Earth Science, 2022, 10, .	1.8	6
25	TaupÅ•inflate: illustrating detection limits of magmatic inflation below Lake TaupÅ• New Zealand Journal of Geology, and Geophysics, 2023, 66, 571-588.	1.8	6
26	Tephrochronology and Provenance of an Early Pleistocene (Calabrian) Tephra From IODP Expedition 374 Site U1524, Ross Sea (Antarctica). Geochemistry, Geophysics, Geosystems, 2021, 22, e2021GC009739.	2.5	3
27	A comment on: magma residence and eruption at the TaupÅ•Volcanic Center (TaupÅ•Volcanic Zone, New) Tj ETQq1 1 0.784314 rgBT /O by AS PamukÃ§u et al., Contrib Mineral Petrol 175:48 (2020). Contributions To Mineralogy and Petrology, 2021, 176, 1.	3.1	3
28	Rifting and recharge as triggers of the mixed basaltâ€“rhyolite HalarauÃ°ur ignimbrite eruption (Krafla,) Tj ETQq0 0 0 rgBT /Overlock 10	3.1	3
29	Implications of a Supervolcanoâ€™s Seismicity. Eos, 2020, 101, .	0.1	2
30	Reply to 'Magma balloons or bombs?'. Nature Geoscience, 2013, 6, 803-803.	12.9	0