Michael J Stock

List of Publications by Year
in descending order

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22 papers	664 citations	567281 15 h-index	752698 20 g-index
26 all docs	26 docs citations	26 times ranked	860 citing authors

#	Article	IF	Citations
1	Upper Mantle Mush Zones beneath Low Melt Flux Ocean Island Volcanoes: Insights from Isla Floreana, GalÃ¡pagos. Journal of Petrology, 2021, 61, .	2.8	19
2	Caldera resurgence during the 2018 eruption of Sierra Negra volcano, GalÃ¡pagos Islands. Nature Communications, 2021, 12, 1397.	12.8	30
3	Rapid pre-eruptive mush reorganisation and atmospheric volatile emissions from the 12.9 ka Laacher See eruption, determined using apatite. Earth and Planetary Science Letters, 2021, 576, 117198.	4.4	14
4	Constraints on the behaviour and content of volatiles in GalÃ¡pagos magmas from melt inclusions and nominally anhydrous minerals. Geochimica Et Cosmochimica Acta, 2021, , .	3.9	3
5	Corrigendum to: Upper Mantle Mush Zones beneath Low Melt Flux Ocean Island Volcanoes: Insights from Isla Floreana, GalÃ¡pagos. Journal of Petrology, 2021, 63, .	2.8	0
6	Cryptic evolved melts beneath monotonous basaltic shield volcanoes in the GalÃ¡pagos Archipelago. Nature Communications, 2020, 11, 3767.	12.8	20
7	Reconstruction of residual melts from the zeolitized explosive products of alkaline-mafic volcanoes. American Mineralogist, 2019, , .	1.9	0
8	The Creation and Evolution of Crystal Mush in the Upper Zone of the Rustenburg Layered Suite, Bushveld Complex, South Africa. Journal of Petrology, 2019, 60, 1523-1542.	2.8	18
9	Some fluid mechanical constraints on crystallization and recharge within sills. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180007.	3.4	8
10	Magma chambers versus mush zones: constraining the architecture of sub-volcanic plumbing systems from microstructural analysis of crystalline enclaves. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2019, 377, 20180006.	3.4	36
11	Chronology and phenomenology of the 1982 and 2015 Wolf volcano eruptions, GalÃ¡pagos Archipelago. Journal of Volcanology and Geothermal Research, 2019, 374, 26-38.	2.1	18
12	The effect of cooling rate on immiscible silicate liquid microstructure: an example from the Palaeogene dykes of Northeast England. Mineralogical Magazine, 2019, 83, 809-820.	1.4	8
13	Tracking Volatile Behaviour in Sub-volcanic Plumbing Systems Using Apatite and Glass: Insights into Pre-eruptive Processes at Campi Flegrei, Italy. Journal of Petrology, 2018, 59, 2463-2492.	2.8	55
14	Integrated Petrological and Geophysical Constraints on Magma System Architecture in the Western GalÃ¡pagos Archipelago: Insights From Wolf Volcano. Geochemistry, Geophysics, Geosystems, 2018, 19, 4722-4743.	2.5	31
15	Tracking plumbing system dynamics at the Campi Flegrei caldera, Italy: High-resolution trace element mapping of the Astroni crystal cargo. Lithos, 2018, 318-319, 464-477.	1.4	23
16	Constraining magma storage conditions at a restless volcano in the Main Ethiopian Rift using phase equilibria models. Journal of Volcanology and Geothermal Research, 2017, 337, 44-61.	2.1	45
17	Late-stage volatile saturation as a potential trigger for explosive volcanic eruptions. Nature Geoscience, 2016, 9, 249-254.	12.9	110
18	Insights into the behaviour of S, F, and Cl at Santiaguito Volcano, Guatemala, from apatite and glass. Lithos, 2015, 232, 375-394.	1.4	37

#	Article	IF	Citations
19	New constraints on electron-beam induced halogen migration in apatite. American Mineralogist, 2015, 100, 281-293.	1.9	79
20	Apatite Chlorine Concentration Measurements by <scp>LA</scp>â€<scp>ICP</scp>â€<scp>MS</scp>. Geostandards and Geoanalytical Research, 2014, 38, 23-35.	3.1	34
21	Composition of hydrothermal fluids and mineralogy of associated chimney material on the East Scotia Ridge back-arc spreading centre. Geochimica Et Cosmochimica Acta, 2014, 139, 47-71.	3.9	61
22	Triggering of major eruptions recorded by actively forming cumulates. Scientific Reports, 2012, 2, 731.	3.3	11