

Michael J Stock

List of Publications by Year in descending order

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Version: 2024-02-01

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	Late-stage volatile saturation as a potential trigger for explosive volcanic eruptions. <i>Nature Geoscience</i> , 2016, 9, 249-254.	12.9	110
2	New constraints on electron-beam induced halogen migration in apatite. <i>American Mineralogist</i> , 2015, 100, 281-293.	1.9	79
3	Composition of hydrothermal fluids and mineralogy of associated chimney material on the East Scotia Ridge back-arc spreading centre. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 139, 47-71.	3.9	61
4	Tracking Volatile Behaviour in Sub-volcanic Plumbing Systems Using Apatite and Glass: Insights into Pre-eruptive Processes at Campi Flegrei, Italy. <i>Journal of Petrology</i> , 2018, 59, 2463-2492.	2.8	55
5	Constraining magma storage conditions at a restless volcano in the Main Ethiopian Rift using phase equilibria models. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 337, 44-61.	2.1	45
6	Insights into the behaviour of S, F, and Cl at Santiaguito Volcano, Guatemala, from apatite and glass. <i>Lithos</i> , 2015, 232, 375-394.	1.4	37
7	Magma chambers versus mush zones: constraining the architecture of sub-volcanic plumbing systems from microstructural analysis of crystalline enclaves. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180006.	3.4	36
8	Apatite Chlorine Concentration Measurements by $LA-ICP-MS$. <i>Geostandards and Geoanalytical Research</i> , 2014, 38, 23-35.	3.1	34
9	Integrated Petrological and Geophysical Constraints on Magma System Architecture in the Western Galápagos Archipelago: Insights From Wolf Volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 4722-4743.	2.5	31
10	Caldera resurgence during the 2018 eruption of Sierra Negra volcano, Galápagos Islands. <i>Nature Communications</i> , 2021, 12, 1397.	12.8	30
11	Tracking plumbing system dynamics at the Campi Flegrei caldera, Italy: High-resolution trace element mapping of the Astroni crystal cargo. <i>Lithos</i> , 2018, 318-319, 464-477.	1.4	23
12	Cryptic evolved melts beneath monotonous basaltic shield volcanoes in the Galápagos Archipelago. <i>Nature Communications</i> , 2020, 11, 3767.	12.8	20
13	Upper Mantle Mush Zones beneath Low Melt Flux Ocean Island Volcanoes: Insights from Isla Floreana, Galápagos. <i>Journal of Petrology</i> , 2021, 61, .	2.8	19
14	The Creation and Evolution of Crystal Mush in the Upper Zone of the Rustenburg Layered Suite, Bushveld Complex, South Africa. <i>Journal of Petrology</i> , 2019, 60, 1523-1542.	2.8	18
15	Chronology and phenomenology of the 1982 and 2015 Wolf volcano eruptions, Galápagos Archipelago. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 374, 26-38.	2.1	18
16	Rapid pre-eruptive mush reorganisation and atmospheric volatile emissions from the 12.9 ka Laacher See eruption, determined using apatite. <i>Earth and Planetary Science Letters</i> , 2021, 576, 117198.	4.4	14
17	Triggering of major eruptions recorded by actively forming cumulates. <i>Scientific Reports</i> , 2012, 2, 731.	3.3	11
18	Some fluid mechanical constraints on crystallization and recharge within sills. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180007.	3.4	8

#	ARTICLE	IF	CITATIONS
19	The effect of cooling rate on immiscible silicate liquid microstructure: an example from the Palaeogene dykes of Northeast England. <i>Mineralogical Magazine</i> , 2019, 83, 809-820.	1.4	8
20	Constraints on the behaviour and content of volatiles in Galápagos magmas from melt inclusions and nominally anhydrous minerals. <i>Geochimica Et Cosmochimica Acta</i> , 2021, , .	3.9	3
21	Reconstruction of residual melts from the zeolitized explosive products of alkaline-mafic volcanoes. <i>American Mineralogist</i> , 2019, , .	1.9	0
22	Corrigendum to: Upper Mantle Mush Zones beneath Low Melt Flux Ocean Island Volcanoes: Insights from Isla Floreana, Galápagos. <i>Journal of Petrology</i> , 2021, 63, .	2.8	0