

Matthew J Pankhurst

List of Publications by Year in descending order

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Version: 2024-02-01

23
papers

523
citations

840776

11
h-index

677142

22
g-index

23
all docs

23
docs citations

23
times ranked

674
citing authors

#	ARTICLE	IF	CITATIONS
1	Mesoproterozoic plume-modified orogenesis in eastern Precambrian Australia. <i>Tectonics</i> , 2009, 28, .	2.8	81
2	Volc�n de Colima dome collapse of July, 2015 and associated pyroclastic density currents. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 320, 100-106.	2.1	58
3	The source of A-type magmas in two contrasting settings: U-Pb, Lu-Hf and Re-Os isotopic constraints. <i>Chemical Geology</i> , 2013, 351, 175-194.	3.3	52
4	Magmatic crystal records in time, space, and process, causatively linked with volcanic unrest. <i>Earth and Planetary Science Letters</i> , 2018, 493, 231-241.	4.4	47
5	Geodynamics of rapid voluminous felsic magmatism through time. <i>Lithos</i> , 2011, 123, 92-101.	1.4	43
6	Rapid response petrology for the opening eruptive phase of the 2021 Cumbre Vieja eruption, La Palma, Canary Islands. <i>Volcanica</i> , 2022, 5, 1-10.	1.8	39
7	Contrasting Sr and Nd isotopic behaviour during magma mingling; new insights from the Mannum A-type granite. <i>Lithos</i> , 2011, 126, 135-146.	1.4	28
8	A Mesoproterozoic continental flood rhyolite province, the Gawler Ranges, Australia: the end member example of the Large Igneous Province clan. <i>Solid Earth</i> , 2011, 2, 25-33.	2.8	23
9	Monitoring the Magmas Fuelling Volcanic Eruptions in Near-real-time Using X-ray Micro-computed Tomography. <i>Journal of Petrology</i> , 2014, 55, 671-684.	2.8	23
10	Provenance of the Early Mesoproterozoic Radium Creek Group in the northern Mount Painter Inlier: Correlating isotopic signatures to inform tectonic reconstructions. <i>Precambrian Research</i> , 2014, 243, 63-87.	2.7	23
11	The Petrogenesis of Magmatic Systems: Using Igneous Textures to Understand Magmatic Processes. , 2018, , 191-229.		20
12	High-energy, high-resolution, fly-scan X-ray phase tomography. <i>Scientific Reports</i> , 2019, 9, 8913.	3.3	14
13	Major Element Chemical Heterogeneity in Geo2 Olivine Microbeam Reference Material: A Spatial Approach to Quantifying Heterogeneity in Primary Reference Materials. <i>Geostandards and Geoanalytical Research</i> , 2017, 41, 85-91.	3.1	11
14	Quantitative measurement of olivine composition in three dimensions using helical-scan X-ray micro-tomography. <i>American Mineralogist</i> , 2018, 103, 1800-1811.	1.9	11
15	Reducing epistemic and model uncertainty in ionic inter-diffusion chronology: A 3D observation and dynamic modeling approach using olivine from Piton de la Fournaise, La Reunion. <i>American Mineralogist</i> , 2021, 106, 481-494.	1.9	10
16	Enabling three-dimensional densitometric measurements using laboratory source X-ray micro-computed tomography. <i>SoftwareX</i> , 2018, 7, 115-121.	2.6	9
17	Non-destructive three-dimensional crystallographic orientation analysis of olivine using laboratory diffraction contrast tomography. <i>Mineralogical Magazine</i> , 2019, 83, 705-711.	1.4	6
18	Changes in Diffuse Degassing From the Summit Crater of Teide Volcano (Tenerife, Canary Islands) Prior to the 2016 Tenerife Long-Period Seismic Swarm. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020318.	3.4	6

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19	X-ray phase-contrast imaging with engineered porous materials over 50 keV. <i>Journal of Synchrotron Radiation</i> , 2018, 25, 1182-1188.	2.4	6
20	Crowd-sourcing observations of volcanic eruptions during the 2021 Fagradalsfjall and Cumbre Vieja events. <i>Nature Communications</i> , 2022, 13, 2611.	12.8	5
21	Atmospheric K-feldspar as a potential climate modulating agent through geologic time. <i>Geology</i> , 2017, 45, 379-382.	4.4	4
22	Evaluating the influence of meteorite impact events on global potassium feldspar availability to the atmosphere since 600 Ma. <i>Journal of the Geological Society</i> , 2019, 176, 209-224.	2.1	2
23	Meteorites that produce K-feldspar-rich ejecta blankets correspond to mass extinctions. <i>Journal of the Geological Society</i> , 2022, 179, .	2.1	2