

Daniel J Morgan

List of Publications by Year in descending order

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papers

2,999
citations

186265

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49
docs citations

49
times ranked

2296
citing authors

#	ARTICLE	IF	CITATIONS
1	Microsampling and Isotopic Analysis of Igneous Rocks: Implications for the Study of Magmatic Systems. <i>Annual Review of Earth and Planetary Sciences</i> , 2007, 35, 273-311.	11.0	384
2	Methods for the microsampling and high-precision analysis of strontium and rubidium isotopes at single crystal scale for petrological and geochronological applications. <i>Chemical Geology</i> , 2006, 232, 114-133.	3.3	246
3	On estimating crystal shape for crystal size distribution analysis. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 154, 1-7.	2.1	243
4	Time scales of crystal residence and magma chamber volume from modelling of diffusion profiles in phenocrysts: Vesuvius 1944. <i>Earth and Planetary Science Letters</i> , 2004, 222, 933-946.	4.4	148
5	From mush to eruption in centuries: assembly of the super-sized Oruanui magma body. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 143-164.	3.1	137
6	Carbonate Assimilation at Merapi Volcano, Java, Indonesia: Insights from Crystal Isotope Stratigraphy. <i>Journal of Petrology</i> , 2007, 48, 1793-1812.	2.8	130
7	Timescales of mixing and mobilisation in the Bishop Tuff magma body: perspectives from diffusion chronometry. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1.	3.1	112
8	Tree-mycorrhiza symbiosis accelerate mineral weathering: Evidences from nanometer-scale elemental fluxes at the hypha-mineral interface. <i>Geochimica Et Cosmochimica Acta</i> , 2011, 75, 6988-7005.	3.9	110
9	Microchemical and Sr Isotopic Investigation of Zoned K-feldspar Megacrysts: Insights into the Petrogenesis of a Granitic System and Disequilibrium Crystal Growth. <i>Journal of Petrology</i> , 2005, 46, 1689-1724.	2.8	98
10	The Upper Crustal Evolution of a Large Silicic Magma Body: Evidence from Crystal-scale Rb-Sr Isotopic Heterogeneities in the Fish Canyon Magmatic System, Colorado. <i>Journal of Petrology</i> , 2007, 48, 1875-1894.	2.8	83
11	Bang! Month-Scale Eruption Triggering at Santorini Volcano. <i>Science</i> , 2008, 321, 1178-1178.	12.6	81
12	Magmatic residence times of zoned phenocrysts: introduction and application of the binary element diffusion modelling (BEDM) technique. <i>Contributions To Mineralogy and Petrology</i> , 2006, 151, 58-70.	3.1	78
13	Magma chamber recharge at Vesuvius in the century prior to the eruption of A.D. 79. <i>Geology</i> , 2006, 34, 845.	4.4	77
14	Pb isotopic zoning of K-feldspar megacrysts determined by Laser Ablation Multi-Collector ICP-MS: Insights into granite petrogenesis. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 1899-1915.	3.9	75
15	Combining CSD and isotopic microanalysis: Magma supply and mixing processes at Stromboli Volcano, Aeolian Islands, Italy. <i>Earth and Planetary Science Letters</i> , 2007, 260, 419-431.	4.4	69
16	Lithium concentration gradients in feldspar and quartz record the final minutes of magma ascent in an explosive supereruption. <i>Earth and Planetary Science Letters</i> , 2012, 319-320, 218-227.	4.4	61
17	Tracking timescales of short-term precursors to large basaltic fissure eruptions through Fe-Mg diffusion in olivine. <i>Earth and Planetary Science Letters</i> , 2016, 439, 58-70.	4.4	59
18	Isotopic Microsampling of Magmatic Rocks. <i>Elements</i> , 2007, 3, 253-259.	0.5	55

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19	Rapid priming, accumulation, and recharge of magma driving recent eruptions at a hyperactive caldera volcano. <i>Geology</i> , 2016, 44, 323-326.	4.4	55
20	A cascade of magmatic events during the assembly and eruption of a super-sized magma body. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	53
21	What factors control superficial lava dome explosivity?. <i>Scientific Reports</i> , 2015, 5, 14551.	3.3	48
22	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
23	Rapid assembly and rejuvenation of a large silicic magmatic system: Insights from mineral diffusive profiles in the Kidnappers and Rocky Hill deposits, New Zealand. <i>Earth and Planetary Science Letters</i> , 2017, 473, 1-13.	4.4	43
24	Time scales of magma transport and mixing at K�lauea Volcano, Hawai�. <i>Geology</i> , 2016, 44, 463-466.	4.4	41
25	The Magmatic Evolution of the Whakamaru Supereruption, New Zealand, Constrained by a Microanalytical Study of Plagioclase and Quartz. <i>Journal of Petrology</i> , 2010, 51, 2465-2488.	2.8	36
26	Using the Sr isotope compositions of feldspars and glass to distinguish magma system components and dynamics. <i>Geology</i> , 2010, 38, 539-542.	4.4	36
27	A Branched Magma Feeder System during the 1669 Eruption of Mt Etna: Evidence from a Time-integrated Study of Zoned Olivine Phenocryst Populations. <i>Journal of Petrology</i> , 2017, 58, 443-472.	2.8	35
28	Rapid assembly of high-Mg andesites and dacites by magma mixing at a continental arc stratovolcano. <i>Geology</i> , 2020, 48, 1033-1037.	4.4	31
29	High-K Mafic Plinian Eruptions of Volc�n de Colima, Mexico. <i>Journal of Petrology</i> , 2014, 55, 2155-2192.	2.8	29
30	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
31	Localised heating and intensive magmatic conditions prior to the 22�23 April 2015 Calbuco volcano eruption (Southern Chile). <i>Bulletin of Volcanology</i> , 2019, 81, 1.	3.0	23
32	Light rare earth element redistribution during hydrothermal alteration at the Okorusu carbonatite complex, Namibia. <i>Mineralogical Magazine</i> , 2020, 84, 49-64.	1.4	23
33	The Petrogenesis of Magmatic Systems: Using Igneous Textures to Understand Magmatic Processes. , 2018, , 191-229.		20
34	Old magma and a new, intrusive trigger: using diffusion chronometry to understand the rapid-onset Calbuco eruption, April 2015 (Southern Chile). <i>Contributions To Mineralogy and Petrology</i> , 2019, 174, 1.	3.1	16
35	Comment on ‘‘Rapid cooling and cold storage in a silicic magma reservoir recorded in individual crystals’’. <i>Science</i> , 2017, 358, .	12.6	13
36	The Virtual Worlds Project: geological mapping and field skills. <i>Geology Today</i> , 2015, 31, 227-231.	0.9	12

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37	Using titanium-in-quartz geothermometry and geospeedometry to recover temperatures in the aureole of the Ballachulish Igneous Complex, NW Scotland. Geological Society Special Publication, 2014, 394, 145-165.	1.3	11
38	Major Element Chemical Heterogeneity in Geo2 Olivine Microbeam Reference Material: A Spatial Approach to Quantifying Heterogeneity in Primary Reference Materials. Geostandards and Geoanalytical Research, 2017, 41, 85-91.	3.1	11
39	Insights Into Magma Storage Beneath a Frequently Erupting Arc Volcano (Villarrica, Chile) From Unsupervised Machine Learning Analysis of Mineral Compositions. Geochemistry, Geophysics, Geosystems, 2022, 23, .	2.5	11
40	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 Réunion. American Mineralogist, 2021, 106, 481-494.	1.9	10
41	Time to change the data culture in geochemistry. Nature Reviews Earth & Environment, 0, , .	29.7	10
42	Insights Into Magma Chamber Processes From the Relationship Between Fabric and Grain Shape in Troctolitic Cumulates. Frontiers in Earth Science, 2020, 8, .	1.8	8
43	Time-window into the transcrustal plumbing system dynamics of Dominica (Lesser Antilles). Scientific Reports, 2021, 11, 11440.	3.3	8
44	Long-term controls on continental-scale bedrock river terrace deposition from integrated clast and heavy mineral assemblage analysis: An example from the lower Orange River, Namibia. Sedimentary Geology, 2018, 364, 103-120.	2.1	7
45	Access Anglesey 2018: Lessons from an inclusive field course. Advances in Geosciences, 0, 53, 183-194.	12.0	6
46	Shallow-marine serpentinization-derived fluid seepage in the Upper Cretaceous Qahlah Formation, United Arab Emirates. Geological Magazine, 2021, 158, 1561-1571.	1.5	4
47	Holocene Eruption History and Magmatic Evolution of the Colima Volcanic Complex. Active Volcanoes of the World, 2019, , 1-25.	1.4	2