

# Margaret E Hartley

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

1,524  
citations

279798

23  
h-index

345221

36  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1742  
citing authors

#	ARTICLE	IF	CITATIONS
1	Highly Oxidising Conditions in Volatile-Rich El Hierro Magmas: Implications for Ocean Island Magmatism. <i>Journal of Petrology</i> , 2022, 63, .	2.8	7
2	Dendritic crystallization in hydrous basaltic magmas controls magma mobility within the Earth's crust. <i>Nature Communications</i> , 2022, 13, .	12.8	17
3	Boron isotopic signatures of melt inclusions from North Iceland reveal recycled material in the Icelandic mantle source. <i>Geochimica Et Cosmochimica Acta</i> , 2021, 294, 273-294.	3.9	10
4	Timescales of crystal mush mobilization in the Bárðarbunga-Veiðivátn volcanic system based on olivine diffusion chronometry. <i>American Mineralogist</i> , 2021, 106, 1083-1096.	1.9	11
5	In situ quantification of crystallisation kinetics of plagioclase and clinopyroxene in basaltic magma: Implications for lava flow. <i>Earth and Planetary Science Letters</i> , 2021, 568, 117016.	4.4	10
6	Temporal evolution of magma and crystal mush storage conditions in the Bárðarbunga-Veiðivátn volcanic system, Iceland. <i>Lithos</i> , 2020, 352-353, 105234.	1.4	11
7	Pre- and syn-eruptive conditions of a basaltic Plinian eruption at Masaya Volcano, Nicaragua: The Masaya Triple Layer (2.1 Åka). <i>Journal of Volcanology and Geothermal Research</i> , 2020, 392, 106761.	2.1	32
8	QEMSCAN as a Method of Semi-Automated Crystal Size Distribution Analysis: Insights from Apollo 15 Mare Basalts. <i>Journal of Petrology</i> , 2020, 61, .	2.8	4
9	Magma fragmentation in highly explosive basaltic eruptions induced by rapid crystallization. <i>Nature Geoscience</i> , 2019, 12, 1023-1028.	12.9	91
10	High fluxes of deep volatiles from ocean island volcanoes: Insights from El Hierro, Canary Islands. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 258, 19-36.	3.9	28
11	The unexpected explosive sub-Plinian eruption of Calbuco volcano (22 <sup>nd</sup> April 2015; southern Chile): Triggering mechanism implications. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 378, 35-50.	2.1	31
12	Melt inclusion constraints on petrogenesis of the 2014 <sup>th</sup> -2015 Holuhraun eruption, Iceland. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 10.	3.1	51
13	Melt inclusion constraints on volatile systematics and degassing history of the 2014 <sup>th</sup> -2015 Holuhraun eruption, Iceland. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	32
14	Crystallisation in basaltic magmas revealed via in situ 4D synchrotron X-ray microtomography. <i>Scientific Reports</i> , 2018, 8, 8377.	3.3	53
15	Petrology and geochemistry of the 2014 <sup>th</sup> -2015 Holuhraun eruption, central Iceland: compositional and mineralogical characteristics, temporal variability and magma storage. <i>Contributions To Mineralogy and Petrology</i> , 2018, 173, 1.	3.1	38
16	Magmatic Densities Control Erupted Volumes in Icelandic Volcanic Systems. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	20
17	Strong constraints on aerosol <sup>air</sup> -cloud interactions from volcanic eruptions. <i>Nature</i> , 2017, 546, 485-491.	27.8	191
18	Volatile and light lithophile elements in high-anorthite plagioclase-hosted melt inclusions from Iceland. <i>Geochimica Et Cosmochimica Acta</i> , 2017, 205, 100-118.	3.9	38

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19	Heterogeneously entrapped, vapor-rich melt inclusions record pre-eruptive magmatic volatile contents. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	21
20	Olivine-hosted melt inclusions as an archive of redox heterogeneity in magmatic systems. <i>Earth and Planetary Science Letters</i> , 2017, 479, 192-205.	4.4	47
21	Time scales of magma transport and mixing at K�lauea Volcano, Hawai�. <i>Geology</i> , 2016, 44, 463-466.	4.4	41
22	Postglacial eruptive history of the Askja region, North Iceland. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	3.0	16
23	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
24	Diffusive over-hydration of olivine-hosted melt inclusions. <i>Earth and Planetary Science Letters</i> , 2015, 425, 168-178.	4.4	49
25	Fe-XANES analyses of Reykjanes Ridge basalts: Implications for oceanic crust's role in the solid Earth oxygen cycle. <i>Earth and Planetary Science Letters</i> , 2015, 427, 272-285.	4.4	75
26	The evolution and storage of primitive melts in the Eastern Volcanic Zone of Iceland: the 10�ka Gr�msv�tn tephra series (i.e. the Saksunarvatn ash). <i>Contributions To Mineralogy and Petrology</i> , 2015, 170, 1.	3.1	36
27	Crystal Storage and Transfer in Basaltic Systems: the Skuggafj�ll Eruption, Iceland. <i>Journal of Petrology</i> , 2014, 55, 2311-2346.	2.8	69
28	Tracking the changing oxidation state of Erebus magmas, from mantle to surface, driven by magma ascent and degassing. <i>Earth and Planetary Science Letters</i> , 2014, 393, 200-209.	4.4	111
29	Reconstructing the deep CO2 degassing behaviour of large basaltic fissure eruptions. <i>Earth and Planetary Science Letters</i> , 2014, 393, 120-131.	4.4	143
30	Oxygen isotopes in melt inclusions and glasses from the Askja volcanic system, North Iceland. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 123, 55-73.	3.9	13
31	The 1874�1876 volcano�tectonic episode at Askja, North Iceland: Lateral flow revisited. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2286-2309.	2.5	71
32	Evaluation of the effects of composition on instrumental mass fractionation during SIMS oxygen isotope analyses of glasses. <i>Chemical Geology</i> , 2012, 334, 312-323.	3.3	30
33	Formation of �skjuvatn caldera at Askja, North Iceland: Mechanism of caldera collapse and implications for the lateral flow hypothesis. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 227-228, 85-101.	2.1	31
34	Melt segregations in a Columbia River Basalt lava flow: A possible mechanism for the formation of highly evolved mafic magmas. <i>Lithos</i> , 2009, 112, 434-446.	1.4	28
35	Fetal and neonatal exposure to AZT and low-protein diet affects glucose homeostasis: a model with implications for AIDS prevention. <i>American Journal of Physiology - Endocrinology and Metabolism</i> , 2005, 289, E1115-E1118.	3.5	7