

Michael R Carroll

List of Publications by Year in descending order

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Version: 2024-02-01

22
papers

1,298
citations

516710

16
h-index

752698

20
g-index

22
all docs

22
docs citations

22
times ranked

997
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental constraints on degassing of magma: isothermal bubble growth during continuous decompression from high pressure. <i>Earth and Planetary Science Letters</i> , 1999, 168, 201-218.	4.4	212
2	Noble gas solubilities in silicate melts and glasses: New experimental results for argon and the relationship between solubility and ionic porosity. <i>Geochimica Et Cosmochimica Acta</i> , 1993, 57, 5039-5051.	3.9	169
3	Degassing during magma ascent in the Mule Creek vent (USA). <i>Bulletin of Volcanology</i> , 1996, 58, 117-130.	3.0	169
4	Chapter 7. SOLUBILITIES OF SULFUR, NOBLE GASES, NITROGEN, CHLORINE, AND FLUORINE IN MAGMAS. , 1994, , 231-280.		136
5	The solubility of H ₂ O in phonolitic melts. <i>American Mineralogist</i> , 1997, 82, 549-556.	1.9	118
6	Noble gases as trace elements in magmatic processes. <i>Chemical Geology</i> , 1994, 117, 37-56.	3.3	75
7	Crystallization kinetics of alkali feldspars in cooling and decompression-induced crystallization experiments in trachytic melt. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 1011-1027.	3.1	65
8	Experimental constraints on the differentiation process and pre-eruptive conditions in the magmatic system of Phlegraean Fields (Naples, Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2008, 171, 88-102.	2.1	47
9	Diffusion of Ar in rhyolite, orthoclase and albite composition glasses. <i>Earth and Planetary Science Letters</i> , 1991, 103, 156-168.	4.4	46
10	Constraints on the dynamics of subglacial basalt eruptions from geological and geochemical observations at Kverkfjöll, NE-Iceland. <i>Bulletin of Volcanology</i> , 2006, 68, 689-701.	3.0	43
11	Preliminary UVLAMP determinations of argon partition coefficients for olivine and clinopyroxene grown from silicate melts. <i>Chemical Geology</i> , 1998, 147, 185-200.	3.3	41
12	Near-liquidus growth of feldspar spherulites in trachytic melts: 3D morphologies and implications in crystallization mechanisms. <i>Lithos</i> , 2015, 216-217, 93-105.	1.4	39
13	New experimental data on biotite + magnetite + sanidine saturated phonolitic melts and application to the estimation of magmatic water fugacity. <i>American Mineralogist</i> , 2006, 91, 1863-1870.	1.9	27
14	Growth rate of alkali feldspars in decompression-induced crystallization experiments in a trachytic melt of the Phlegraean Fields (Napoli, Italy). <i>European Journal of Mineralogy</i> , 2010, 22, 485-493.	1.3	23
15	Constraining pre-eruptive magma conditions and unrest timescales during the Monte Nuovo eruption (1538 AD; Campi Flegrei, Southern Italy): integrating textural and CSD results from experimental and natural trachy-phonolites. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	3.0	22
16	Argon diffusion and solubility in silicic glasses exposed to an Ar-He gas mixture. <i>Earth and Planetary Science Letters</i> , 1995, 132, 15-24.	4.4	19
17	Crystallization Kinetics of Alkali Feldspar in Peralkaline Rhyolitic Melts: Implications for Pantelleria Volcano. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	16
18	Estimation of pre-eruptive magmatic water fugacity in the Phlegraean Fields, Naples, Italy. <i>European Journal of Mineralogy</i> , 2009, 21, 107-116.	1.3	11

#	ARTICLE	IF	CITATIONS
19	Experimental study of monazite solubility in haplogranitic melts: a new model for peraluminous and peralkaline melts. <i>European Journal of Mineralogy</i> , 2019, 31, 49-59.	1.3	7
20	Volcanic sulphur in the balance. <i>Nature</i> , 1997, 389, 543-544.	27.8	5
21	New IR spectroscopic data for determination of water abundances in hydrous pantelleritic glasses. <i>American Mineralogist</i> , 2020, 105, 1060-1068.	1.9	5
22	Petrologic experimental data on Vesuvius and Campi Flegrei magmatism. , 2020, , 323-369.		3