## Caroline Martel

List of Publications by Year in descending order

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29 1,594 18 29 papers citations h-index g-index

29 29 29 1033 all docs docs citations times ranked citing authors

#	Article	IF	CITATIONS
1	Physical conditions, structure, and dynamics of a zoned magma chamber: Mount Pelée (Martinique,) Tj ETQq1 1	. <u>9.</u> 784314	1 rgBT /Over 187
2	Effects offO2and H2O on andesite phase relations between 2 and 4 kbar. Journal of Geophysical Research, 1999, 104, 29453-29470.	3.3	185
3	Amphibole as an archivist of magmatic crystallization conditions: problems, potential, and implications for inferring magma storage prior to the paroxysmal 2010 eruption of Mount Merapi, Indonesia. Contributions To Mineralogy and Petrology, 2014, 167, 1.	3.1	167
4	Magma storage conditions and control of eruption regime in silicic volcanoes: experimental evidence from Mt. Pel©e. Earth and Planetary Science Letters, 1998, 156, 89-99.	4.4	141
5	Decompression experiments as an insight into ascent rates of silicic magmas. Contributions To Mineralogy and Petrology, 2003, 144, 397-415.	3.1	127
6	Eruption Dynamics Inferred from Microlite Crystallization Experiments: Application to Plinian and Dome-forming Eruptions of Mt. Pelee (Martinique, Lesser Antilles). Journal of Petrology, 2012, 53, 699-725.	2.8	90
7	Equilibration Scales in Silicic to Intermediate Magmas Implications for Experimental Studies. Journal of Petrology, 2007, 48, 1955-1972.	2.8	89
8	Probing permeability and microstructure: Unravelling the role of a low-permeability dome on the explosivity of Merapi (Indonesia). Journal of Volcanology and Geothermal Research, 2016, 316, 56-71.	2.1	69
9	Basalt-inherited microlites in silicic magmas: Evidence from Mount Pelée (Martinique, French West) Tj ETQq1 1 (	0,784314 4.4	rgBT /Overlo
10	In situ confirmation of permeability development in shearing bubble-bearing melts and implications for volcanic outgassing. Earth and Planetary Science Letters, 2017, 458, 315-326.	4.4	58
11	Textures, water content and degassing of silicic andesites from recent plinian and dome-forming eruptions at Mount Pelée volcano (Martinique, Lesser Antilles arc). Journal of Volcanology and Geothermal Research, 2000, 96, 191-206.	2.1	53
12	Decompression-induced Crystallization in Hydrated Silica-rich Melts: Empirical Models of Experimental Plagioclase Nucleation and Growth Kinetics. Journal of Petrology, 2012, 53, 1743-1766.	2.8	51
13	Trachyte Phase Relations and Implication for Magma Storage Conditions in the Chaine des Puys (French Massif Central). Journal of Petrology, 2013, 54, 1071-1107.	2.8	47
14	Diversity of eruptive styles inferred from the microlites of Mt Pelée andesite (Martinique, Lesser) Tj ETQq0 0 0 rg	gBT_/Overlo	၁၄ <u>န</u> 10 Tf 50
15	Timescales of bubble coalescence, outgassing, and foam collapse in decompressed rhyolitic melts. Earth and Planetary Science Letters, 2015, 412, 173-185.	4.4	39
16	In situ bubble vesiculation in silicic magmas. American Mineralogist, 2011, 96, 111-124.	1.9	33
17	Structure of the Plumbing System at Tungurahua Volcano, Ecuador: Insights from Phase Equilibrium Experiments on July–August 2006 Eruption Products. Journal of Petrology, 2017, 58, 1249-1278.	2.8	32
18	In situ high-pressure and high-temperature bubble growth in silicic melts. Earth and Planetary Science Letters, 2001, 191, 115-127.	4.4	25

#	Article	IF	CITATIONS
19	Deep pre-eruptive storage of silicic magmas feeding Plinian and dome-forming eruptions of central and northern Dominica (Lesser Antilles) inferred from volatile contents of melt inclusions.  Contributions To Mineralogy and Petrology, 2018, 173, 1.	3.1	17
20	Revised chronostratigraphy of recurrent ignimbritic eruptions in Dominica (Lesser Antilles arc): Implications on the behavior of the magma plumbing system. Journal of Volcanology and Geothermal Research, 2017, 343, 135-154.	2.1	16
21	Storage conditions of the mafic and silicic magmas at Cotopaxi, Ecuador. Journal of Volcanology and Geothermal Research, 2018, 354, 74-86.	2.1	14
22	Petrological and experimental constraints on magma storage for large pumiceous eruptions in Dominica island (Lesser Antilles). Bulletin of Volcanology, 2019, 81, 1.	3.0	13
23	A System Dynamics Approach to Understanding the deep Magma Plumbing System Beneath Dominica (Lesser Antilles). Frontiers in Earth Science, 2020, 8, .	1.8	11
24	Experimental Simulations of Magma Storage and Ascent. Advances in Volcanology, 2017, , 101-110.	1.1	7
25	Theoretical Models of Decompression-Induced Plagioclase Nucleation and Growth in Hydrated Silica-Rich Melts. Frontiers in Earth Science, 2020, 8, .	1.8	7
26	Experimental Constraints on the Crystallization of Silica Phases in Silicic Magmas. Journal of Petrology, 2021, 62, .	2.8	6
27	The intermediate step in fractionation trends of mildly alkaline volcanic suites: An experimental insight from the Pavin trachyandesite (Massif Central, France). Comptes Rendus - Geoscience, 2019, 351, 525-539.	1.2	5
28	Evidence for an Active, Transcrustal Magma System in the Last 60Âka and Eruptive Degassing Budget (H <sub>2</sub> 0, CO <sub>2</sub> , S, F, Cl, Br): The Case of Dominica. Geochemistry, Geophysics, Geosystems, 2020, 21, e2020GC009050.	2.5	3
29	Syn-Eruptive Conditions of the AD 1530 Sub-Plinian Eruption of La Soufrià re of Guadeloupe (Lesser) Tj ETQq1 1	0.784314	l rgBT /Overlo