

Chiara Maria Petrone

List of Publications by Year in descending order

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Version: 2024-02-01

41
papers

1,803
citations

361413

20
h-index

289244

40
g-index

52
all docs

52
docs citations

52
times ranked

2141
citing authors

#	ARTICLE	IF	CITATIONS
1	Superconductivity up to 29 K in SrFe ₂ As ₂ and BaFe ₂ As ₂ at high pressures. <i>Journal of Physics Condensed Matter</i> , 2009, 21, 012208.	1.8	409
2	Late Miocene volcanism and intra-arc tectonics during the early development of the Trans-Mexican Volcanic Belt. <i>Tectonophysics</i> , 2000, 318, 161-185.	2.2	117
3	Generation of oceanic-island basalt-type volcanism in the western Trans-Mexican volcanic belt by slab rollback, asthenosphere infiltration, and variable flux melting. <i>Geology</i> , 2001, 29, 507.	4.4	115
4	New Insights into Crustal Contributions to Large-volume Rhyolite Generation in the Mid-Tertiary Sierra Madre Occidental Province, Mexico, Revealed by U-Pb Geochronology. <i>Journal of Petrology</i> , 2008, 49, 47-77.	2.8	101
5	The December 2002-July 2003 effusive event at Stromboli volcano, Italy: Insights into the shallow plumbing system by petrochemical studies. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 155, 263-284.	2.1	96
6	Geology, geochronology and tectonic setting of late Cenozoic volcanism along the southwestern Gulf of Mexico: The Eastern Alkaline Province revisited. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 146, 284-306.	2.1	91
7	Melting, Differentiation and Degassing at the Pantelleria Volcano, Italy. <i>Journal of Petrology</i> , 2012, 53, 637-663.	2.8	78
8	Unusual coexistence of subduction-related and intraplate-type magmatism: Sr, Nd and Pb isotope and trace element data from the magmatism of the San Pedro-Ceboruco graben (Nayarit, Mexico). <i>Chemical Geology</i> , 2003, 193, 1-24.	3.3	66
9	Rapid mixing and short storage timescale in the magma dynamics of a steady-state volcano. <i>Earth and Planetary Science Letters</i> , 2018, 492, 206-221.	4.4	65
10	Quaternary adakite-Nb-enriched basalt association in the western Trans-Mexican Volcanic Belt: is there any slab melt evidence?. <i>Contributions To Mineralogy and Petrology</i> , 2008, 156, 73-86.	3.1	61
11	Geochemical and isotopic variability in lavas from the eastern Trans-Mexican Volcanic Belt: Slab detachment in a subduction zone with varying dip. <i>Lithos</i> , 2007, 93, 149-174.	1.4	58
12	Correlations between silicic volcanic rocks of the St Mary's Islands (southwestern India) and eastern Madagascar: implications for Late Cretaceous India-Madagascar reconstructions. <i>Journal of the Geological Society</i> , 2009, 166, 283-294.	2.1	53
13	Pre-eruptive magmatic processes re-timed using a non-isothermal approach to magma chamber dynamics. <i>Nature Communications</i> , 2016, 7, 12946.	12.8	52
14	What controls sheet intrusion in volcanoes? Structure and petrology of the Stromboli sheet complex, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 173, 26-54.	2.1	49
15	An integrative geologic, geochronologic and geochemical study of Gorgona Island, Colombia: Implications for the formation of the Caribbean Large Igneous Province. <i>Earth and Planetary Science Letters</i> , 2011, 309, 324-336.	4.4	49
16	Petrology of Karoo volcanic rocks in the southern Lebombo monocline, Mozambique. <i>Journal of African Earth Sciences</i> , 2008, 52, 139-151.	2.0	45
17	Mush cannibalism and disruption recorded by clinopyroxene phenocrysts at Stromboli volcano: New insights from recent 2003-2017 activity. <i>Lithos</i> , 2020, 360-361, 105440.	1.4	35
18	A Pyroxenic View on Magma Hybridization and Crystallization at Popocatepetl Volcano, Mexico. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	25

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19	Relationship between monogenetic magmatism and stratovolcanoes in western Mexico: The role of low-pressure magmatic processes. <i>Lithos</i> , 2010, 119, 585-606.	1.4	22
20	Mineralogy and magmatic affinity of the Jasra intrusive complex, Shillong Plateau, India. <i>Mineralogical Magazine</i> , 2012, 76, 1099-1117.	1.4	20
21	Interplinian effusive activity at Popocatepetl volcano, Mexico: New insights into evolution and dynamics of the plumbing system. <i>Volcanica</i> , 2019, 2, 45-72.	1.8	19
22	Understanding the collapse-eruptive link at Stromboli, Italy: A microanalytical study on the products of the recent Secche di Lazzaro phreatomagmatic activity. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 188, 315-332.	2.1	18
23	New ⁴⁰ Ar- ³⁹ Ar ages and petrogenesis of the Massif d'Ambre volcano, northern Madagascar. , 2011, , .		18
24	The role of sub-continental mantle as both "sink" and "source" in deep Earth volatile cycles. <i>Geochimica Et Cosmochimica Acta</i> , 2020, 275, 140-162.	3.9	18
25	Volcanic systems in the San Pedro-Ceboruco graben(Nayarit, Mexico) in the light of new K-Ar geochronological data.. <i>Geochemical Journal</i> , 2001, 35, 77-88.	1.0	17
26	When magmas do not interact: paired Roman-age activity revealed by tephra studies at Stromboli volcano. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	3.0	15
27	Characterization and genesis of horizontal banding in Brazilian agate: an X-ray diffraction, thermogravimetric and electron microprobe study. <i>Mineralogical Magazine</i> , 2013, 77, 227-248.	1.4	14
28	Textures in spinel peridotite mantle xenoliths using micro-CT scanning: Examples from Canary Islands and France. <i>Lithos</i> , 2017, 276, 90-102.	1.4	11
29	Chemical and mineralogical characterization of the Mineo (Sicily, Italy) pallasite: A unique sample. <i>Meteoritics and Planetary Science</i> , 2018, 53, 268-283.	1.6	9
30	Magma recharge patterns control eruption styles and magnitudes at Popocatepetl volcano (Mexico). <i>Geology</i> , 2022, 50, 366-370.	4.4	9
31	Mineralogical, Geochemical, and Isotopic Characteristics of the Ejecta from the 5 April 2003 Paroxysm at Stromboli, Italy: Inferences on the Pre-eruptive Magma Dynamics. <i>Geophysical Monograph Series</i> , 0, , 331-345.	0.1	8
32	Mush remobilisation and mafic recharge: A study of the crystal cargo of the 2013-17 eruption at Volcán de Colima, Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 416, 107296.	2.1	8
33	Parameterization of clinopyroxene growth kinetics via crystal size distribution (CSD) analysis: Insights into the temporal scales of magma dynamics at Mt. Etna volcano. <i>Lithos</i> , 2021, 396-397, 106225.	1.4	6
34	Petrogenesis and geodynamic significance of silicic volcanism in the western Trans-Mexican Volcanic Belt: role of gabbroic cumulates. <i>Contributions To Mineralogy and Petrology</i> , 2014, 167, 1.	3.1	3
35	RESEARCH FOCUS: Volcanic eruptions: From ionosphere to the plumbing system. <i>Geology</i> , 2018, 46, 927-928.	4.4	3
36	Micro-CT investigation of garnet-spinel clusters in mantle peridotite xenoliths. <i>Lithos</i> , 2020, 352-353, 105250.	1.4	2

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37	Decoding multiple zoning patterns in clinopyroxene phenocrysts at Vulcano Island: A record of dynamic crystallization through interconnected reservoirs. <i>Lithos</i> , 2021, 406-407, 106517.	1.4	2
38	Critical assessment of pressure estimates in volcanic plumbing systems: The case study of Popocatepetl volcano, Mexico. <i>Lithos</i> , 2022, 408-409, 106540.	1.4	2
39	Evolution of the Popocatepetl Volcanic Complex: constraints on periodic edifice construction and destruction by sector collapse. <i>Journal of the Geological Society</i> , 2022, 179, .	2.1	2
40	The San Pedro "Cerro Grande volcanic complex (Nayarit, Mexico): Inferences on volcanology and magma evolution. , 2006, , .		1
41	Textural and Compositional Characteristics of Lavas Emitted During the December 2002 to July 2003 Stromboli Eruption (Italy): Inferences on Magma Dynamics. <i>Geophysical Monograph Series</i> , 2013, , 213-228.	0.1	1