

Andrea Di Muro

List of Publications by Year in descending order

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75
papers

2,688
citations

172457

29
h-index

197818

49
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80
all docs

80
docs citations

80
times ranked

1970
citing authors

#	ARTICLE	IF	CITATIONS
1	Lava Volume from Remote Sensing Data: Comparisons with Reverse Petrological Approaches for Two Types of Effusive Eruption. <i>Remote Sensing</i> , 2022, 14, 323.	4.0	3
2	Intracaldera explosions and lava emissions during the 2007 caldera collapse of Piton de la Fournaise, La Réunion Island. <i>Bulletin of Volcanology</i> , 2022, 84, 1.	3.0	1
3	Magmatic and phreatomagmatic contributions on the ash-dominated basaltic eruptions: Insights from the April and November–December 2005 paroxysmal events at Karthala volcano, Comoros. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 424, 107500.	2.1	4
4	Gas Geochemistry at Grande Comore and Mayotte Volcanic Islands (Comoros Archipelago), Indian Ocean. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009870.	2.5	8
5	Lava flow hazard map of Piton de la Fournaise volcano. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 2355-2377.	3.6	19
6	The 2018-ongoing Mayotte submarine eruption: Magma migration imaged by petrological monitoring. <i>Earth and Planetary Science Letters</i> , 2021, 571, 117085.	4.4	36
7	Degassing and gas percolation in basaltic magmas. <i>Earth and Planetary Science Letters</i> , 2021, 573, 117134.	4.4	16
8	Volcano Crisis Management at Piton de la Fournaise (La Réunion) during the COVID-19 Lockdown. <i>Seismological Research Letters</i> , 2021, 92, 38-52.	1.9	12
9	Footprints and conditions of multistep alkali enrichment in basaltic melts at Piton de la Fournaise (La Réunion). <i>Journal of Petrology</i> , 2021, 62, 1-14.	3.0	26
10	Timescales of magmatic processes during the eruptive cycle 2014–2015 at Piton de la Fournaise, La Réunion, obtained from Mg–Fe diffusion modelling in olivine. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	3.1	20
11	Variability of ash deposits at Piton de la Fournaise (La Réunion Island): insights into fragmentation processes at basaltic shield volcanoes. <i>Bulletin of Volcanology</i> , 2020, 82, 1.	3.0	16
12	Paroxysmal eruptions tracked by variations of helium isotopes: inferences from Piton de la Fournaise (La Réunion island). <i>Scientific Reports</i> , 2020, 10, 9809.	3.3	14
13	Basaltic dyke eruptions at Piton de La Fournaise: characterization of the eruptive products with implications for reservoir conditions, conduit processes and eruptive dynamics. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	3.1	23
14	Evidences of Plug Pressurization Enhancing Magma Fragmentation During the September 2016 Basaltic Eruption at Piton de la Fournaise (La Réunion Island, France). <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2019GC008611.	2.5	22
15	Eruptive Activity on the Western Flank of Piton de la Fournaise (La Réunion Island, Indian Ocean): Insights on Magma Transfer, Storage and Evolution at an Oceanic Volcanic Island. <i>Journal of Petrology</i> , 2019, 60, 1717-1752.	2.8	14
16	Very- and ultra-long-period seismic signals prior to and during caldera formation on La Réunion Island. <i>Scientific Reports</i> , 2019, 9, 8068.	3.3	26
17	Magma interactions, crystal mush formation, timescales, and unrest during caldera collapse and lateral eruption at ocean island basaltic volcanoes (Piton de la Fournaise, La Réunion). <i>Earth and Planetary Science Letters</i> , 2019, 515, 187-199.	4.4	33
18	Integrating field, textural, and geochemical monitoring to track eruption triggers and dynamics: a case study from Piton de la Fournaise. <i>Solid Earth</i> , 2018, 9, 431-455.	2.8	35

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19	Small-scale spatial variability of soil CO ₂ flux: Implication for monitoring strategy. Journal of Volcanology and Geothermal Research, 2018, 366, 13-26.	2.1	11
20	Control of source fertility on the eruptive activity of Piton de la Fournaise volcano, La Réunion. Scientific Reports, 2018, 8, 14478.	3.3	16
21	Extensive CO ₂ degassing in the upper mantle beneath oceanic basaltic volcanoes: First insights from Piton de la Fournaise volcano (La Réunion Island). Geochimica Et Cosmochimica Acta, 2018, 235, 376-401.	3.9	43
22	Equilibrium Viscosity and Disequilibrium Rheology of a high Magnesium Basalt from Piton De La Fournaise volcano, La Reunion, Indian Ocean, France. Annals of Geophysics, 2018, 61, .	1.0	11
23	Shallow system rejuvenation and magma discharge trends at Piton de la Fournaise volcano (La Réunion). Journal of Volcanology and Geothermal Research, 2017, 341, 193-207.	4.4	48
24	Effusive crises at Piton de la Fournaise 2014–2015: a review of a multi-national response model. Journal of Applied Volcanology, 2017, 6, .	2.0	34
25	Investigating the deepest part of a volcano plumbing system: Evidence for an active magma path below the western flank of Piton de la Fournaise (La Réunion Island). Journal of Volcanology and Geothermal Research, 2017, 341, 193-207.	2.1	22
26	The evolution of pore connectivity in volcanic rocks. Earth and Planetary Science Letters, 2017, 462, 99-109.	4.4	96
27	New perspectives on volcano monitoring in a tropical environment: Continuous measurements of soil CO ₂ flux at Piton de la Fournaise (La Réunion Island, France). Geophysical Research Letters, 2017, 44, 8244-8253.	4.0	25
28	First results of the Piton de la Fournaise STRAP 2015 experiment: multidisciplinary tracking of a volcanic gas and aerosol plume. Atmospheric Chemistry and Physics, 2017, 17, 5355-5378.	4.9	21
29	Raman spectroscopy as suitable tool for the field study of recent volcanic environments. Journal of Raman Spectroscopy, 2016, 47, 740-742.	2.5	8
30	Deep fluid transfer evidenced by surface deformation during the 2014–2015 unrest at Piton de la Fournaise volcano. Journal of Volcanology and Geothermal Research, 2016, 321, 140-148.	2.1	30
31	Origin and fate of sulfide liquids in hotspot volcanism (La Réunion): Pb isotope constraints from residual Fe–Cu oxides. Geochimica Et Cosmochimica Acta, 2016, 194, 179-192.	3.9	6
32	Explosive eruptions from the interaction of magmatic and hydrothermal systems during flank extension: the Bellecombe Tephra of Piton de La Fournaise (La Réunion Island). Bulletin of Volcanology, 2016, 78, 1.	3.0	24
33	Geology and Morphostructural Evolution of Piton de la Fournaise. Active Volcanoes of the World, 2016, , 45-59.	1.4	7
34	Magma Degassing at Piton de la Fournaise Volcano. Active Volcanoes of the World, 2016, , 203-222.	1.4	23
35	Pre-historic (5 kyear) Explosive Activity at Piton de la Fournaise Volcano. Active Volcanoes of the World, 2016, , 107-138.	1.4	13
36	Volcanological Map of the Plaine des Sables, Piton de la Fournaise. Active Volcanoes of the World, 2016, , 327-330.	1.4	3

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37	Magma Paths at Piton de la Fournaise Volcano. <i>Active Volcanoes of the World</i> , 2016, , 91-106.	1.4	19
38	Fifteen Years of Intense Eruptive Activity (1998–2013) at Piton de la Fournaise Volcano: A Review. <i>Active Volcanoes of the World</i> , 2016, , 139-170.	1.4	22
39	Seismic anisotropy and its precursory change before eruptions at Piton de la Fournaise volcano, La Réunion. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 3430-3458.	3.4	11
40	New evidence of CO ₂ soil degassing anomalies on Piton de la Fournaise volcano and the link with volcano tectonic structures. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 4388-4404.	2.5	25
41	Toward continuous quantification of lava extrusion rate: Results from the multidisciplinary analysis of the 2 January 2010 eruption of Piton de la Fournaise volcano, La Réunion. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 3026-3047.	3.4	23
42	MeMoVolc consensual document: a review of cross-disciplinary approaches to characterizing small explosive magmatic eruptions. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	3.0	22
43	Explosive style, magma degassing and evolution in the Chaimilla eruption, Villarrica volcano, Southern Andes. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	3.0	10
44	Rift zones and magma plumbing system of Piton de la Fournaise volcano: How do they differ from Hawaii and Etna?. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 303, 112-129.	2.1	52
45	Simulations and parameterisation of shallow volcanic plumes of Piton de la Fournaise, Réunion Island, using Meso-NH version 4-9-3. <i>Geoscientific Model Development</i> , 2015, 8, 1427-1443.	3.6	2
46	Modeling the lava heat flux during severe effusive volcanic eruption: An important impact on surface air quality. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 11,729-11,742.	3.3	10
47	The Shallow Plumbing System of Piton de la Fournaise Volcano (La Reunion Island, Indian Ocean) Revealed by the Major 2007 Caldera-Forming Eruption. <i>Journal of Petrology</i> , 2014, 55, 1287-1315.	2.8	85
48	Densification mechanisms of haplogranite glasses as a function of water content and pressure based on density and Raman data. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 138, 158-180.	3.9	19
49	The 2007 eruptions and caldera collapse of the Piton de la Fournaise volcano (La Réunion Island) from tilt analysis at a single very broadband seismic station. <i>Geophysical Research Letters</i> , 2014, 41, 2803-2811.	4.0	34
50	Explosive activity of the summit cone of Piton de la Fournaise volcano (La Réunion island): A historical and geological review. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 264, 117-133.	2.1	58
51	First Results from the UnderVolc High Resolution Seismic and GPS Network Deployed on Piton de la Fournaise Volcano. <i>Seismological Research Letters</i> , 2012, 83, 97-102.	1.9	49
52	A new comprehensive classification of the Piton de la Fournaise activity spanning the 1985–2010 period. Search and analysis of short-term precursors from a broad-band seismological station. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 241-242, 78-104.	2.1	108
53	Comment on "Conduit convection, magma mixing, and melt inclusion trends at persistent degassing volcanoes" by Fred Witham, published in <i>Earth Planetary Science Letters</i> (2011) 301, 345–352. <i>Earth and Planetary Science Letters</i> , 2011, 306, 306-308.	4.4	6
54	Magma and Volatile Supply to Post-collapse Volcanism and Block Resurgence in Siwi Caldera (Tanna) Tj ETQq0 0 0 ggBT /Overlock 10 Tf	2.8	84

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55	Conditions of Magma Storage, Degassing and Ascent at Stromboli: New Insights into the Volcano Plumbing System with Inferences on the Eruptive Dynamics. <i>Journal of Petrology</i> , 2010, 51, 603-626.	2.8	208
56	Spectroscopic analysis (FTIR, Raman) of water in mafic and intermediate glasses and glass inclusions. <i>Geochimica Et Cosmochimica Acta</i> , 2010, 74, 5641-5656.	3.9	66
57	Injection of vesicular magma into an andesitic dome at the effusive-“explosive transition. <i>Earth and Planetary Science Letters</i> , 2010, 295, 83-90.	4.4	25
58	A model of degassing for Stromboli volcano. <i>Earth and Planetary Science Letters</i> , 2010, 295, 195-204.	4.4	148
59	Zirconolite and calzirtite in banded forsterite-spinel-calcite skarn ejecta from the 1631 eruption of Vesuvius: inferences for magma-wallrock interactions. <i>Mineralogical Magazine</i> , 2009, 73, 333-356.	1.4	17
60	Micro-Raman determination of iron redox state in dry natural glasses: Application to peralkaline rhyolites and basalts. <i>Chemical Geology</i> , 2009, 259, 78-88.	3.3	64
61	Influence of glass polymerisation and oxidation on micro-Raman water analysis in alumino-silicate glasses. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 197-217.	3.9	86
62	The rheological evolution of alkaline Vesuvius magmas and comparison with alkaline series from the Phlegrean Fields, Etna, Stromboli and Teide. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6613-6630.	3.9	44
63	Pre-1991 sulfur transfer between mafic injections and dacite magma in the Mt. Pinatubo reservoir. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 175, 517-540.	2.1	31
64	Transport and sedimentation dynamics of transitional explosive eruption columns: The example of the 800BP Quilotoa plinian eruption (Ecuador). <i>Journal of Volcanology and Geothermal Research</i> , 2008, 174, 307-324.	2.1	22
65	Influence of composition and thermal history of volcanic glasses on water content as determined by micro-Raman spectrometry. <i>Applied Geochemistry</i> , 2006, 21, 802-812.	3.0	32
66	An expanded non-Arrhenian model for silicate melt viscosity: A treatment for metaluminous, peraluminous and peralkaline liquids. <i>Chemical Geology</i> , 2006, 229, 42-56.	3.3	126
67	Quantification of water content and speciation in natural silicic glasses (phonolite, dacite, rhyolite) by confocal microRaman spectrometry. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 2868-2884.	3.9	84
68	New data for the characterization of Milos obsidians. <i>Journal of Radioanalytical and Nuclear Chemistry</i> , 2006, 268, 371-386.	1.5	34
69	Eruptive dynamics of the “Pumice” volcano, Eastern Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 158, 401-429.	2.1	24
70	Novel interpretation for shift between eruptive styles in some volcanoes. <i>Eos</i> , 2005, 86, 333.	0.1	13
71	Role of conduit shear on ascent of the crystal-rich magma feeding the 800-year-b.p. Plinian eruption of Quilotoa Volcano (Ecuador). <i>Bulletin of Volcanology</i> , 2004, 66, 307-321.	3.0	67
72	Contemporaneous convective and collapsing eruptive dynamics: The transitional regime of explosive eruptions. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	35

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73	Complex colour and chemical zoning of sodalite-group phases in a ha ^{1/4} ynophyre lava from Mt. Vulture, Italy. <i>Mineralogical Magazine</i> , 2004, 68, 591-614.	1.4	29
74	Mass partition during collapsing and transitional columns by using numerical simulations. <i>Journal of Volcanology and Geothermal Research</i> , 2002, 115, 1-18.	2.1	52
75	Fall vs flow activity during the 1991 climactic eruption of Pinatubo Volcano (Philippines). <i>Bulletin of Volcanology</i> , 2001, 62, 549-566.	3.0	47