

# Marco Pistolessi

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4835615/publications.pdf>

Version: 2024-02-01

72  
papers

2,240  
citations

172386

29  
h-index

243529

44  
g-index

80  
all docs

80  
docs citations

80  
times ranked

1766  
citing authors

#	ARTICLE	IF	CITATIONS
1	Tephra sedimentation during the 2010 Eyjafjallajökull eruption (Iceland) from deposit, radar, and satellite observations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	142
2	A case history of paroxysmal explosion at Stromboli: Timing and dynamics of the April 5, 2003 event. <i>Earth and Planetary Science Letters</i> , 2006, 243, 594-606.	1.8	138
3	Quantifying volcanic hazard at Campi Flegrei caldera (Italy) with uncertainty assessment: 1. Vent opening maps. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 2309-2329.	1.4	101
4	Chapter 14 Stromboli volcano, Aeolian Islands (Italy): present eruptive activity and hazards. <i>Geological Society Memoir</i> , 2013, 37, 473-490.	0.9	91
5	Complex dynamics of small-moderate volcanic events: the example of the 2011 rhyolitic Cordón Caulle eruption, Chile. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	1.1	86
6	The 15 March 2007 explosive crisis at Stromboli volcano, Italy: Assessing physical parameters through a multidisciplinary approach. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	83
7	Quantifying volcanic hazard at Campi Flegrei caldera (Italy) with uncertainty assessment: 2. Pyroclastic density current invasion maps. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 2330-2349.	1.4	79
8	Dynamics of wind-affected volcanic plumes: The example of the 2011 Cordón Caulle eruption, Chile. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 2242-2261.	1.4	70
9	Insights into the dynamics and evolution of the 2010 Eyjafjallajökull summit eruption (Iceland) provided by volcanic ash textures. <i>Earth and Planetary Science Letters</i> , 2014, 394, 111-123.	1.8	66
10	Chronology and impact of the 2011 Cordón Caulle eruption, Chile. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 675-704.	1.5	61
11	Scavenging of sulphur, halogens and trace metals by volcanic ash: The 2010 Eyjafjallajökull eruption. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 103, 138-160.	1.6	54
12	Volcano seismicity and ground deformation unveil the gravity-driven magma discharge dynamics of a volcanic eruption. <i>Nature Communications</i> , 2015, 6, 6998.	5.8	52
13	Sedimentation of long-lasting wind-affected volcanic plumes: the example of the 2011 rhyolitic Cordón Caulle eruption, Chile. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	1.1	51
14	Determination of the largest clast sizes of tephra deposits for the characterization of explosive eruptions: a study of the IAVCEI commission on tephra hazard modelling. <i>Bulletin of Volcanology</i> , 2013, 75, 1.	1.1	48
15	Growth and erosion: The volcanic geology and morphological evolution of La Fossa (Island of) Tj ETQq1 1 0.784314 rgBT /Overlock 10	1.1	47
16	The November 2009 paroxysmal explosions at Stromboli. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 196, 120-125.	0.8	43
17	Stronger or longer: Discriminating between Hawaiian and Strombolian eruption styles. <i>Geology</i> , 2016, 44, 163-166.	2.0	43
18	Glass geochemistry of pyroclastic deposits from the Aeolian Islands in the last 50 ka: A proximal database for tephrochronology. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 336, 81-107.	0.8	43

#	ARTICLE	IF	CITATIONS
19	Tracking dynamics of magma migration in open-conduit systems. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	1.1	42
20	Lahar hazard assessment in the southern drainage system of Cotopaxi volcano, Ecuador: Results from multiscale lahar simulations. <i>Geomorphology</i> , 2014, 207, 51-63.	1.1	40
21	Physical volcanology of the post-twelfth-century activity at Cotopaxi volcano, Ecuador: Behavior of an andesitic central volcano. <i>Bulletin of the Geological Society of America</i> , 2011, 123, 1193-1215.	1.6	39
22	Forecasting Effusive Dynamics and Decompression Rates by Magmastatic Model at Open-vent Volcanoes. <i>Scientific Reports</i> , 2017, 7, 3885.	1.6	38
23	Transient explosions at open-vent volcanoes: The case of Stromboli (Italy). <i>Geology</i> , 2014, 42, 863-866.	2.0	36
24	Multiple hazards and paths to eruptions: A review of the volcanic system of Vulcano (Aeolian Islands). <i>Tj ETQq0 0 0 rgBT /Overlock 10 Tf</i>	4.0	36
25	Plinian and Subplinian Eruptions. , 2015, , 519-535.		35
26	Probabilistic evaluation of the physical impact of future tephra fallout events for the Island of Vulcano, Italy. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	1.1	35
27	Great Balls of Fire: A probabilistic approach to quantify the hazard related to ballistics " A case study at La Fossa volcano, Vulcano Island, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 325, 1-14.	0.8	34
28	Potential impacts of tephra fallout from a large-scale explosive eruption at Sakurajima volcano, Japan. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	1.1	33
29	Paroxysms at Stromboli Volcano (Italy): Source, Genesis and Dynamics. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	33
30	Deciphering post-caldera volcanism: insight into the Vulcanello (Island of Vulcano, Southern Italy) eruptive activity based on geological and petrological constraints. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	1.1	31
31	MeMoVolc report on classification and dynamics of volcanic explosive eruptions. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	1.1	31
32	Geoarchaeological Evidence of Middle-Age Tsunamis at Stromboli and Consequences for the Tsunami Hazard in the Southern Tyrrhenian Sea. <i>Scientific Reports</i> , 2019, 9, 677.	1.6	31
33	Assessing future vent opening locations at the Somma-Vesuvio volcanic complex: 2. Probability maps of the caldera for a future Plinian/sub-Plinian event with uncertainty quantification. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 4357-4376.	1.4	28
34	Reliability of Total Grain-Size Distribution of Tephra Deposits. <i>Scientific Reports</i> , 2019, 9, 10006.	1.6	27
35	Evidence for lahar-triggering mechanisms in complex stratigraphic sequences: the post-twelfth century eruptive activity of Cotopaxi Volcano, Ecuador. <i>Bulletin of Volcanology</i> , 2013, 75, 1.	1.1	26
36	Ground deformation reveals the scale-invariant conduit dynamics driving explosive basaltic eruptions. <i>Nature Communications</i> , 2021, 12, 1683.	5.8	26

#	ARTICLE	IF	CITATIONS
37	Volcanic CO <sub>2</sub> tracks the incubation period of basaltic paroxysms. <i>Science Advances</i> , 2021, 7, eabh0191.	4.7	25
38	Dynamics of shallow hydrothermal eruptions: new insights from Vulcano's Breccia di Commenda eruption. <i>Bulletin of Volcanology</i> , 2018, 80, 1.	1.1	24
39	MeMoVolc consensual document: a review of cross-disciplinary approaches to characterizing small explosive magmatic eruptions. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	1.1	22
40	The 1914 Taisho eruption of Sakurajima volcano: stratigraphy and dynamics of the largest explosive event in Japan during the twentieth century. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	1.1	22
41	Simultaneous eruptions from multiple vents at Campi Flegrei (Italy) highlight new eruption processes at calderas. <i>Geology</i> , 2016, 44, 487-490.	2.0	21
42	The Paroxysmal Event and Its Deposits. <i>Geophysical Monograph Series</i> , 0, , 317-329.	0.1	19
43	Exploration of the 1891 Foerstner submarine vent site (Pantelleria, Italy): insights into the formation of basaltic balloons. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	1.1	16
44	The Baia's Fondi di Baia eruption at Campi Flegrei: stratigraphy and dynamics of a multi-stage caldera reactivation event. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	1.1	15
45	Magma evolution at La Fossa volcano (Vulcano Island, Italy) in the last 1000 years: evidence from eruptive products and temperature gradient experiments. <i>Contributions To Mineralogy and Petrology</i> , 2020, 175, 1.	1.2	15
46	Tsunami and tephra deposits record interactions between past eruptive activity and landslides at Stromboli volcano, Italy. <i>Geology</i> , 2020, 48, 436-440.	2.0	13
47	New Frontiers in Ocean Exploration: The E/V Nautilus and NOAA Ship Okeanos Explorer 2011 Field Season. <i>Oceanography</i> , 2012, 25, 1-68.	0.5	13
48	Magmatic sulfide immiscibility at an active magmatic-hydrothermal system: The case of La Fossa (Vulcano, Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2018, 358, 45-57.	0.8	12
49	Mapping the susceptibility of rain-triggered lahars at Vulcano island (Italy) combining field characterization, geotechnical analysis, and numerical modelling. <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 2421-2449.	1.5	12
50	Evolution of Conduit Geometry and Eruptive Parameters During Effusive Events. <i>Geophysical Research Letters</i> , 2018, 45, 7471-7480.	1.5	10
51	Physical and Aerodynamic Characterization of Particle Clusters at Sakurajima Volcano (Japan). <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	10
52	Chrono-stratigraphy of the youngest (last 1500 years) rhyolitic eruptions of Lipari (Aeolian Islands, Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2021, 420, 107397.	0.8	9
53	Deposit-Derived Block-and-Ash Flows: The Hazard Posed by Perched Temporary Tephra Accumulations on Volcanoes; 2018 Fuego Disaster, Guatemala. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	8
54	Magmatic reactivation of the Campi Flegrei volcanic system: insights from the Baia's Fondi di Baia eruption. <i>Bulletin of Volcanology</i> , 2018, 80, 1.	1.1	7

#	ARTICLE	IF	CITATIONS
55	Eruption type probability and eruption source parameters at Cotopaxi and Guagua Pichincha volcanoes (Ecuador) with uncertainty quantification. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	1.1	7
56	Integrating hazard, exposure, vulnerability and resilience for risk and emergency management in a volcanic context: the ADVISE model. <i>Journal of Applied Volcanology</i> , 2021, 10, 7.	0.7	7
57	Tracking metal evolution in arc magmas: Insights from the active volcano of La Fossa, Italy. <i>Lithos</i> , 2021, 380-381, 105851.	0.6	6
58	The contribution of palaeomagnetism, tephrochronology and radiocarbon dating to refine the last 1100 years of eruptive activity at Vulcano (Italy). <i>Bulletin of Volcanology</i> , 2022, 84, 1.	1.1	6
59	A Crystal Mush Perspective Explains Magma Variability at La Fossa Volcano (Vulcano, Italy). <i>Minerals (Basel, Switzerland)</i> , 2021, 11, 1094.	0.8	5
60	Effusion Rate Evolution During Small-Volume Basaltic Eruptions: Insights From Numerical Modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB019301.	1.4	4
61	Explosive Behavior of Intermediate Magmas: The Example of Cotopaxi Volcano (Ecuador). <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009991.	1.0	4
62	Platinum-group element geochemistry of the shoshonitic igneous suite of Vulcano (Aeolian Arc, Italy): implications for chalcophile element fertility of arc magmas. <i>Contributions To Mineralogy and Petrology</i> , 2021, 176, 1.	1.2	4
63	The onset of an eruption: selective assimilation of hydrothermal minerals during pre-eruptive magma ascent of the 2010 summit eruption of Eyjafjallajökull volcano, Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 327, 449-458.	0.8	3
64	Assessing the effectiveness and the economic impact of evacuation: the case of the island of Vulcano, Italy. <i>Natural Hazards and Earth System Sciences</i> , 2022, 22, 1083-1108.	1.5	3
65	Eruptive dynamics and fragmentation mechanisms during cyclic Vulcanian activity at Sakurajima volcano (Japan): Insights from ash texture analysis. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 428, 107582.	0.8	3
66	Real-time tephra-fallout accumulation rates and grain-size distributions using ASHER (ASH collector) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.8	3
67	Lahar risk assessment from source identification to potential impact analysis: the case of Vulcano Island, Italy. <i>Journal of Applied Volcanology</i> , 2021, 10, .	0.7	2
68	Reply to the "Comment by Delmelle et al. (2013) on "Scavenging of sulfur, halogens and trace metals by volcanic ash: The 2010 Eyjafjallajökull eruption" by Bagnato et al. (2013)" <i>Geochimica Et Cosmochimica Acta</i> , 2014, 127, 385-389.	1.6	1
69	Understanding volcanic systems and their dynamics combining field and physical volcanology with petrology studies. , 2021, , 285-328.		1
70	ERUPTIVE STYLE TRANSITIONS AT LA FOSSA CONE, VULCANO ISLAND, ITALY. , 2019, , .		0
71	New insights on the pre-eruptive volatile budget of Vulcano Island (Italy) magmas: clues from apatite composition. , 2021, , .		0
72	Chalcophile element fertility of shoshonitic arc magmas: insights from Platinum-Group Element geochemistry at Vulcano Island (Italy). , 2021, , .		0