

Mauro Rosi

List of Publications by Year in descending order

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66
papers

3,659
citations

109264

35
h-index

149623

56
g-index

68
all docs

68
docs citations

68
times ranked

2521
citing authors

#	ARTICLE	IF	CITATIONS
1	Crystallization Driven by Decompression and Water Loss at Stromboli Volcano (Aeolian Islands, Italy). <i>Journal of Petrology</i> , 2001, 42, 1471-1490.	1.1	264
2	The 1631 Vesuvius eruption. A reconstruction based on historical and stratigraphical data. <i>Journal of Volcanology and Geothermal Research</i> , 1993, 58, 151-182.	0.8	187
3	Volcanic ash layers illuminate the resilience of Neanderthals and early modern humans to natural hazards. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2012, 109, 13532-13537.	3.3	180
4	Dynamics of magma mixing and degassing recorded in plagioclase at Stromboli (Aeolian Archipelago). <i>Journal of Petrology</i> , 2012, 53, 149-162.	1.2	149
5	Violent strombolian and subplinian eruptions at Vesuvius during post-1631 activity. <i>Bulletin of Volcanology</i> , 2001, 63, 126-150.	1.1	140
6	Textural heterogeneities in pumices from the climactic eruption of Mount Pinatubo, 15 June 1991, and implications for magma ascent dynamics. <i>Bulletin of Volcanology</i> , 2001, 63, 83-97.	1.1	127
7	The Plinian phase of the Campanian Ignimbrite eruption (Phlegrean Fields, Italy): evidence from density measurements and textural characterization of pumice. <i>Bulletin of Volcanology</i> , 2003, 65, 418-432.	1.1	121
8	Breadcrust bombs as indicators of Vulcanian eruption dynamics at Guagua Pichincha volcano, Ecuador. <i>Bulletin of Volcanology</i> , 2006, 69, 281-300.	1.1	117
9	Geochemistry of the Phlegraean Fields (Italy) proximal sources for major Mediterranean tephra: Implications for the dispersal of Plinian and co-ignimbritic components of explosive eruptions. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 93, 102-128.	1.6	110
10	The major and trace element glass compositions of the productive Mediterranean volcanic sources: tools for correlating distal tephra layers in and around Europe. <i>Quaternary Science Reviews</i> , 2015, 118, 48-66.	1.4	108
11	Triggering mechanism at the origin of paroxysms at Stromboli (Aeolian Archipelago, Italy): The 5 April 2003 eruption. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	103
12	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
13	The A.D. 472 "Pollena" eruption: volcanological and petrological data for this poorly-known, plinian-type event at vesuvius. <i>Journal of Volcanology and Geothermal Research</i> , 1983, 17, 249-271.	0.8	90
14	The Pomici di Base plinian eruption of Somma-Vesuvius. <i>Journal of Volcanology and Geothermal Research</i> , 1998, 83, 219-239.	0.8	90
15	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
16	The dry and hydrous viscosities of alkaline melts from Vesuvius and Phlegrean Fields. <i>Chemical Geology</i> , 2003, 202, 23-38.	1.4	80
17	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
18	Changes in eruptive style during the A.D. 1538 Monte Nuovo eruption (Phlegrean Fields, Italy): the role of syn-eruptive crystallization. <i>Bulletin of Volcanology</i> , 2005, 67, 601-621.	1.1	77

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19	Origin of magmas feeding the Plinian phase of the Campanian Ignimbrite eruption, Phlegrean Fields (Italy): constraints based on matrix-glass and glass-inclusion compositions. <i>Journal of Volcanology and Geothermal Research</i> , 1999, 91, 199-220.	0.8	76
20	Modeling tephra dispersal in absence of wind: Insights from the climactic phase of the 2450BP Plinian eruption of Pululagua volcano (Ecuador). <i>Journal of Volcanology and Geothermal Research</i> , 2010, 193, 117-136.	0.8	72
21	Eruptions of the last 2200 years at Vulcano and Vulcanello (Aeolian Islands, Italy) dated by high-accuracy archeomagnetism. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 159, 225-233.	0.7	65
22	Chronology of the 2007 eruption of Stromboli and the activity of the Scientific Synthesis Group. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 182, 123-130.	0.8	62
23	Review of ten years of volcano deformations recorded by the ground-based InSAR monitoring system at Stromboli volcano: a tool to mitigate volcano flank dynamics and intense volcanic activity. <i>Earth-Science Reviews</i> , 2014, 139, 317-335.	4.0	56
24	A model for the formation of vesiculated tuff by the coalescence of accretionary lapilli. <i>Bulletin of Volcanology</i> , 1992, 54, 429-434.	1.1	54
25	Mass partition during collapsing and transitional columns by using numerical simulations. <i>Journal of Volcanology and Geothermal Research</i> , 2002, 115, 1-18.	0.8	52
26	A case of no-wind plinian fallout at Pululagua caldera (Ecuador): implications for models of clast dispersal. <i>Bulletin of Volcanology</i> , 1993, 55, 523-535.	1.1	49
27	Recycling and re-hydration of degassed magma inducing transient dissolution/crystallization events at Stromboli (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2008, 174, 325-336.	0.8	49
28	Recent eruptive history of Stromboli (Aeolian Islands, Italy) determined from high-accuracy archeomagnetic dating. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	48
29	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
30	The Effects of Vent Location, Event Scale, and Time Forecasts on Pyroclastic Density Current Hazard Maps at Campi Flegrei Caldera (Italy). <i>Frontiers in Earth Science</i> , 2017, 5, .	0.8	48
31	Correlation of deposits and vent locations of the proximal Campanian Ignimbrite deposits, Campi Flegrei, Italy, based on natural remanent magnetization and anisotropy of magnetic susceptibility characteristics. <i>Journal of Volcanology and Geothermal Research</i> , 1999, 91, 167-178.	0.8	47
32	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
33	Rheomorphic structures in a high-grade ignimbrite: the Nuraxi tuff, Sulcis volcanic district (SW Tj ETQq1 1 0.784314.rgBT /Overlock 10	0.8	40
34	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
35	Italian active volcanoes. <i>Episodes</i> , 2003, 26, 227-234.	0.8	37
36	Plinian and Subplinian Eruptions. , 2015, , 519-535.		35

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37	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
38	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
39	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
40	Crystal fractionation, magma step ascent, and syn-eruptive mingling: the Averno 2 eruption (Phlegraean Fields, Italy). <i>Contributions To Mineralogy and Petrology</i> , 2012, 163, 1121-1137.	1.2	30
41	Pyroclastic flow dynamics and hazard in a caldera setting: Application to Phlegraean Fields (Italy). <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	1.0	28
42	Ground-based InSAR reveals conduit pressurization pulses at Stromboli volcano. <i>Terra Nova</i> , 2013, 25, 192-198.	0.9	28
43	Volcanology and Magma Geochemistry of the Present-Day Activity: Constraints on the Feeding System. <i>Geophysical Monograph Series</i> , 0, , 19-37.	0.1	27
44	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
45	Eruption early warning at Vesuvius: The A.D. 1631 lesson. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	24
46	Eruptive dynamics of the Citlaltépetl Pumice at Citlaltépetl volcano, Eastern Mexico. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 158, 401-429.	0.8	24
47	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
48	Subaqueous density flow processes and deposits of an island volcano landslide (Stromboli Island, Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2016, 325, 1-14.	1.6	23
49	Unusual lapilli tuff ejecta erupted at Stromboli during the 15 March 2007 explosion shed light on the nature and thermal state of rocks forming the crater system of the volcano. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 254, 37-52.	0.8	22
50	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
51	The Paroxysmal Event and Its Deposits. <i>Geophysical Monograph Series</i> , 0, , 317-329.	0.1	19
52	Crater Gas Emissions and the Magma Feeding System of Stromboli Volcano. <i>Geophysical Monograph Series</i> , 0, , 65-80.	0.1	16
53	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
54	Defining the Pre-Eruptive States of Active Volcanoes for Improving Eruption Forecasting. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	15

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55	Novel interpretation for shift between eruptive styles in some volcanoes. <i>Eos</i> , 2005, 86, 333.	0.1	13
56	The Eruptive Activity of 28 and 29 December 2002. <i>Geophysical Monograph Series</i> , 0, , 105-115.	0.1	13
57	Mineralogical, Geochemical, and Isotopic Characteristics of the Ejecta from the 5 April 2003 Paroxysm at Stromboli, Italy: Inferences on the Preruptive Magma Dynamics. <i>Geophysical Monograph Series</i> , 0, , 331-345.	0.1	8
58	Volcanic and Seismic Activity at Stromboli Preceding the 2002-2003 Flank Eruption. <i>Geophysical Monograph Series</i> , 0, , 93-104.	0.1	7
59	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
60	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
61	Movements of the Sciara Del Fuoco. <i>Geophysical Monograph Series</i> , 0, , 183-199.	0.1	4
62	Ground Deformation from Ground-Based SAR Interferometry. <i>Geophysical Monograph Series</i> , 0, , 359-372.	0.1	3
63	The 5 April 2003 Paroxysm at Stromboli: A Review of Geochemical Observations. <i>Geophysical Monograph Series</i> , 0, , 347-358.	0.1	2
64	Geochemical Prediction of the 2002-2003 Stromboli Eruption from Variations in CO ₂ and Rn Emissions and in Helium and Carbon Isotopes. <i>Geophysical Monograph Series</i> , 0, , 117-128.	0.1	1
65	Deep-Sea Deposits of the Stromboli 30 December 2002 Landslide. <i>Geophysical Monograph Series</i> , 0, , 157-169.	0.1	1
66	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