

Antonella Bertagnini

List of Publications by Year in descending order

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75
papers

4,367
citations

101543

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110387

64
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78
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78
docs citations

78
times ranked

2793
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.	2.8	264
2	Onset of the persistent activity at Stromboli Volcano (Italy). <i>Bulletin of Volcanology</i> , 2000, 62, 294-300.	3.0	228
3	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
4	Developing an Event Tree for probabilistic hazard and risk assessment at Vesuvius. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 178, 397-415.	2.1	179
5	A review on phreatic eruptions and their precursors. <i>Journal of Volcanology and Geothermal Research</i> , 1992, 52, 231-246.	2.1	178
6	Stromboli volcano (Aeolian Archipelago, Italy): An open window on the deep-feeding system of a steady state basaltic volcano. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	173
7	Explosive activity and eruption scenarios at Somma-Vesuvius (Italy): Towards a new classification scheme. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 178, 331-346.	2.1	166
8	Blackening of Pompeian Cinnabar Paintings: X-ray Microspectroscopy Analysis. <i>Analytical Chemistry</i> , 2006, 78, 7484-7492.	6.5	157
9	Dynamics of magma mixing and degassing recorded in plagioclase at Stromboli (Aeolian Archipelago,) Tj ETQq1 1 0,784314 rgBT /Overlock 10 Tj	3.1	149
10	A model of degassing for Stromboli volcano. <i>Earth and Planetary Science Letters</i> , 2010, 295, 195-204.	4.4	148
11	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.	4.4	138
12	Triggering mechanism at the origin of paroxysms at Stromboli (Aeolian Archipelago, Italy): The 5 April 2003 eruption. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	103
13	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.	3.4	101
14	Chapter 14 Stromboli volcano, Aeolian Islands (Italy): present eruptive activity and hazards. <i>Geological Society Memoir</i> , 2013, 37, 473-490.	1.7	91
15	The Pomici di Base plinian eruption of Somma-Vesuvius. <i>Journal of Volcanology and Geothermal Research</i> , 1998, 83, 219-239.	2.1	90
16	Violent explosions yield new insights into dynamics of Stromboli volcano. <i>Eos</i> , 1999, 80, 633.	0.1	89
17	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.	3.0	86
18	Magma and Volatile Supply to Post-collapse Volcanism and Block Resurgence in Siwi Caldera (Tanna) Tj ETQq0 0 0 rgBT /Overlock 10 Tj	2.8	84

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19	Eruptive Dynamics and Petrogenetic Processes in a very Shallow Magma Reservoir: the 1906 Eruption of Vesuvius. <i>Journal of Petrology</i> , 1993, 34, 383-425.	2.8	81
20	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.	3.4	79
21	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.	3.0	77
22	Prodigious emission rates and magma degassing budget of major, trace and radioactive volatile species from Ambrym basaltic volcano, Vanuatu island Arc. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 322, 119-143.	2.1	67
23	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.	4.4	66
24	Xenopumices from the 2011-2012 submarine eruption of El Hierro (Canary Islands, Spain): Constraints on the plumbing system and magma ascent. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	65
25	Paroxysmal activity at Stromboli: lessons from the past. <i>Bulletin of Volcanology</i> , 2011, 73, 1229-1243.	3.0	61
26	Chronology and impact of the 2011 Cordón Caulle eruption, Chile. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 675-704.	3.6	61
27	Chemical zoning and crystallization mechanisms in the magma chamber of the Pomice di Base plinian eruption of Somma-Vesuvius (Italy). <i>Contributions To Mineralogy and Petrology</i> , 1999, 135, 179-197.	3.1	55
28	Scavenging of sulphur, halogens and trace metals by volcanic ash: The 2010 Eyjafjallajökull eruption. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 103, 138-160.	3.9	54
29	Fingerprinting ash deposits of small scale eruptions by their physical and textural features. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 177, 277-287.	2.1	51
30	Recycling and core-hydration of degassed magma inducing transient dissolution/crystallization events at Stromboli (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2008, 174, 325-336.	2.1	49
31	Identifying recycled ash in basaltic eruptions. <i>Scientific Reports</i> , 2014, 4, 5851.	3.3	46
32	The Secche di Lazzaro pyroclastics of Stromboli volcano: a phreatomagmatic eruption related to the Sciara del Fuoco sector collapse. <i>Bulletin of Volcanology</i> , 1996, 58, 239-245.	3.0	45
33	The 1906 eruption of Vesuvius: from magmatic to phreatomagmatic activity through the flashing of a shallow depth hydrothermal system. <i>Bulletin of Volcanology</i> , 1991, 53, 517-532.	3.0	44
34	Magma dynamics within a basaltic conduit revealed by textural and compositional features of erupted ash: the December 2015 Mt. Etna paroxysms. <i>Scientific Reports</i> , 2017, 7, 4805.	3.3	42
35	Ash erupted during normal activity at Stromboli (Aeolian Islands, Italy) raises questions on how the feeding system works. <i>Bulletin of Volcanology</i> , 2011, 73, 471-477.	3.0	41
36	Small-scale coexistence of island-arc- and enriched-MORB-type basalts in the central Vanuatu arc. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 1305-1321.	3.1	41

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37	A physico-chemical assessment of the health hazard of Mt. Vesuvius volcanic ash. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 191, 222-232.	2.1	33
38	Paroxysms at Stromboli Volcano (Italy): Source, Genesis and Dynamics. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	33
39	Pyroclastic density currents at Stromboli volcano (Aeolian Islands, Italy): a case study of the 1930 eruption. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	3.0	32
40	Major explosions and paroxysms at Stromboli (Italy): a new historical catalog and temporal models of occurrence with uncertainty quantification. <i>Scientific Reports</i> , 2020, 10, 17357.	3.3	32
41	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.	3.3	31
42	The 512 AD eruption of Vesuvius: complex dynamics of a small scale subplinian event. <i>Bulletin of Volcanology</i> , 2011, 73, 789-810.	3.0	30
43	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.	3.1	30
44	From hot rocks to glowing avalanches: Numerical modelling of gravity-induced pyroclastic density currents and hazard maps at the Stromboli volcano (Italy). <i>Geomorphology</i> , 2016, 273, 93-106.	2.6	30
45	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.	3.4	28
46	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
47	Dynamics of ash-dominated eruptions at Vesuvius: the post-512 AD AS1a event. <i>Bulletin of Volcanology</i> , 2011, 73, 699-715.	3.0	25
48	Eruption early warning at Vesuvius: The A.D. 1631 lesson. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	4.0	24
49	Newly discovered submarine flank eruption at Stromboli volcano (Aeolian Islands, Italy). <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	23
50	Subaqueous density flow processes and deposits of an island volcano landslide (Stromboli Island, Italy). <i>Journal of Geophysical Research</i> , 2010, 115, 2303-2315.	3.1	23
51	Geochemical heterogeneities and dynamics of magmas within the plumbing system of a persistently active volcano: evidence from Stromboli. <i>Bulletin of Volcanology</i> , 2012, 74, 881-894.	3.0	22
52	Effects of experimental reheating of natural basaltic ash at different temperatures and redox conditions. <i>Contributions To Mineralogy and Petrology</i> , 2013, 165, 863-883.	3.1	22
53	Simultaneous eruptions from multiple vents at Campi Flegrei (Italy) highlight new eruption processes at calderas. <i>Geology</i> , 2016, 44, 487-490.	4.4	21
54	Deep water gravity core from the Marsili Basin (Tyrrhenian Sea) records Pleistocene-Holocene explosive events and instability of the Aeolian Archipelago, (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2008, 177, 133-144.	2.1	20

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55	Late Pleistocene-Holocene volcanic activity in northern Victoria Land recorded in Ross Sea (Antarctica) marine sediments. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	3.0	20
56	The Paroxysmal Event and Its Deposits. <i>Geophysical Monograph Series</i> , 0, , 317-329.	0.1	19
57	Dynamics and tephra dispersal of Violent Strombolian eruptions at Vesuvius: insights from field data, wind reconstruction and numerical simulation of the 1906 event. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	3.0	18
58	Pyroclastic density currents at Etna volcano, Italy: The 11 February 2014 case study. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 357, 92-105.	2.1	18
59	The Baiaâ€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.	3.0	15
60	Distal Turbidites and Tsunamigenic Landslides of Stromboli Volcano (Aeolian Islands, Italy). , 2010, , 719-731.		14
61	Tsunami and tephra deposits record interactions between past eruptive activity and landslides at Stromboli volcano, Italy. <i>Geology</i> , 2020, 48, 436-440.	4.4	13
62	Xenopumice erupted on 15 October 2011 offshore of El Hierro (Canary Islands): a subvolcanic snapshot of magmatic, hydrothermal and pyrometamorphic processes. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	3.0	10
63	The 1909 Chinyero eruption on Tenerife (Canary Islands): insights from historical accounts, and tephrostratigraphic and geochemical data. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	3.0	9
64	New insight into the 2011-2012 unrest and eruption of El Hierro Island (Canary Islands) based on integrated geophysical, geodetical and petrological data. <i>Annals of Geophysics</i> , 2015, 58, .	1.0	9
65	Mafic inclusions in the silica-rich rocks of the Tolfa-Ceriti-Manziana volcanic district (Tuscan Tj ETQq1 1 0.784314 ggBT /Overlock 10 7		8
66	Mineralogical, Geochemical, and Isotopic Characteristics of the Ejecta from the 5 April 2003 Paroxysm at Stromboli, Italy: Inferences on the Preeruptive Magma Dynamics. <i>Geophysical Monograph Series</i> , 0, , 331-345.	0.1	8
67	Estimating eruptive parameters and related uncertainties for pyroclastic density currents deposits: worked examples from Somma-Vesuvius (Italy). <i>Bulletin of Volcanology</i> , 2020, 82, 1.	3.0	8
68	Magma transfer and degassing budget: Application to the 2009â€2010 eruptive crisis of Mt Garet (Vanuatu arc). <i>Journal of Volcanology and Geothermal Research</i> , 2016, 322, 48-62.	2.1	7
69	Magmatic reactivation of the Campi Flegrei volcanic system: insights from the Baiaâ€Fondi di Baia eruption. <i>Bulletin of Volcanology</i> , 2018, 80, 1.	3.0	7
70	Comment on â€Conduit convection, magma mixing, and melt inclusion trends at persistent degassing volcanoesâ€™ by Fred Witham, published in <i>Earth Planetary Science Letters</i> (2011) 301, 345â€352. <i>Earth and Planetary Science Letters</i> , 2011, 306, 306-308.	4.4	6
71	The onset of an eruption: selective assimilation of hydrothermal minerals during pre-eruptive magma ascent of the 2010 summit eruption of Eyjafjallaj�kull volcano, Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 327, 449-458.	2.1	3
72	The 2nd to 4th century explosive activity of Vesuvius: new data on the timing of the upward migration of the post-A.D. 79 magma chamber. <i>Annals of Geophysics</i> , 2013, 56, .	1.0	3

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73	Sedimentologic and volcanologic investigation of the deep tyrrhenian sea: preliminary result of cruise VST02. <i>Annals of Geophysics</i> , 2009, 49, .	1.0	3
74	Deep-Sea Deposits of the Stromboli 30 December 2002 Landslide. <i>Geophysical Monograph Series</i> , 0, , 157-169.	0.1	1
75	Reply to the "Comment by Delmelle et al. (2013) on "Scavenging of sulfur, halogens and trace metals by volcanic ash: The 2010 Eyjafjallaj�kull eruption" by Bagnato et al. (2013)" <i>Geochimica Et Cosmochimica Acta</i> , 2014, 127, 385-389.	3.9	1