Antonella Bertagnini

List of Publications by Year
in descending order

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75 papers	4,367 citations	101543 36 h-index	110387 64 g-index
78 all docs	78 docs citations	78 times ranked	2793 citing authors

#	Article	IF	Citations
1	Paroxysms at Stromboli Volcano (Italy): Source, Genesis and Dynamics. Frontiers in Earth Science, 2021, 9, .	1.8	33
2	Major explosions and paroxysms at Stromboli (Italy): a new historical catalog and temporal models of occurrence with uncertainty quantification. Scientific Reports, 2020, 10, 17357.	3.3	32
3	Estimating eruptive parameters and related uncertainties for pyroclastic density currents deposits: worked examples from Somma-Vesuvius (Italy). Bulletin of Volcanology, 2020, 82, 1.	3.0	8
4	Tsunami and tephra deposits record interactions between past eruptive activity and landslides at Stromboli volcano, Italy. Geology, 2020, 48, 436-440.	4.4	13
5	Geoarchaeological Evidence of Middle-Age Tsunamis at Stromboli and Consequences for the Tsunami Hazard in the Southern Tyrrhenian Sea. Scientific Reports, 2019, 9, 677.	3.3	31
6	Pyroclastic density currents at Etna volcano, Italy: The 11 February 2014 case study. Journal of Volcanology and Geothermal Research, 2018, 357, 92-105.	2.1	18
7	Magmatic reactivation of the Campi Flegrei volcanic system: insights from the Baiaâ€“Fondi di Baia eruption. Bulletin of Volcanology, 2018, 80, 1.	3.0	7
8	Assessing future vent opening locations at the Sommaâ€Vesuvio volcanic complex: 2. Probability maps of the caldera for a future Plinian/subâ€Plinian event with uncertainty quantification. Journal of Geophysical Research: Solid Earth, 2017, 122, 4357-4376.	3.4	28
9	Magma dynamics within a basaltic conduit revealed by textural and compositional features of erupted ash: the December 2015 Mt. Etna paroxysms. Scientific Reports, 2017, 7, 4805.	3.3	42
10	The Baiaâ€“Fondi di Baia eruption at Campi Flegrei: stratigraphy and dynamics of a multi-stage caldera reactivation event. Bulletin of Volcanology, 2017, 79, 1.	3.0	15
11	Chronology and impact of the 2011 CordÃ³n Caulle eruption, Chile. Natural Hazards and Earth System Sciences, 2016, 16, 675-704.	3.6	61
12	The 1909 Chinyero eruption on Tenerife (Canary Islands): insights from historical accounts, and tephrostratigraphic and geochemical data. Bulletin of Volcanology, 2016, 78, 1.	3.0	9
13	Simultaneous eruptions from multiple vents at Campi Flegrei (Italy) highlight new eruption processes at calderas. Geology, 2016, 44, 487-490.	4.4	21
14	The onset of an eruption: selective assimilation of hydrothermal minerals during pre-eruptive magma ascent of the 2010 summit eruption of EyjafjallajÃ¶kull volcano, Iceland. Journal of Volcanology and Geothermal Research, 2016, 327, 449-458.	2.1	3
15	From hot rocks to glowing avalanches: Numerical modelling of gravity-induced pyroclastic density currents and hazard maps at the Stromboli volcano (Italy). Geomorphology, 2016, 273, 93-106.	2.6	30
16	Magma transfer and degassing budget: Application to the 2009â€“2010 eruptive crisis of Mt Garet (Vanuatu arc). Journal of Volcanology and Geothermal Research, 2016, 322, 48-62.	2.1	7
17	Prodigious emission rates and magma degassing budget of major, trace and radioactive volatile species from Ambrym basaltic volcano, Vanuatu island Arc. Journal of Volcanology and Geothermal Research, 2016, 322, 119-143.	2.1	67
18	Quantifying volcanic hazard at Campi Flegrei caldera (Italy) with uncertainty assessment: 1. Vent opening maps. Journal of Geophysical Research: Solid Earth, 2015, 120, 2309-2329.	3.4	101

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19	Quantifying volcanic hazard at Campi Flegrei caldera (Italy) with uncertainty assessment: 2. Pyroclastic density current invasion maps. Journal of Geophysical Research: Solid Earth, 2015, 120, 2330-2349.	3.4	79
20	Dynamics and tephra dispersal of Violent Strombolian eruptions at Vesuvius: insights from field data, wind reconstruction and numerical simulation of the 1906 event. Bulletin of Volcanology, 2015, 77, 1.	3.0	18
21	Xenopumice erupted on 15 October 2011 offshore of El Hierro (Canary Islands): a subvolcanic snapshot of magmatic, hydrothermal and pyrometamorphic processes. Bulletin of Volcanology, 2015, 77, 1.	3.0	10
22	Complex dynamics of small-moderate volcanic events: the example of the 2011 rhyolitic CordÃ³n Caulle eruption, Chile. Bulletin of Volcanology, 2015, 77, 1.	3.0	86
23	Late Pleistocene-Holocene volcanic activity in northern Victoria Land recorded in Ross Sea (Antarctica) marine sediments. Bulletin of Volcanology, 2015, 77, 1.	3.0	20
24	New insight into the 2011-2012 unrest and eruption of El Hierro Island (Canary Islands) based on integrated geophysical, geodetical and petrological data. Annals of Geophysics, 2015, 58, .	1.0	9
25	Pyroclastic density currents at Stromboli volcano (Aeolian Islands, Italy): a case study of the 1930 eruption. Bulletin of Volcanology, 2014, 76, 1.	3.0	32
26	Insights into the dynamics and evolution of the 2010 EyjafjallajÃ¶kull summit eruption (Iceland) provided by volcanic ash textures. Earth and Planetary Science Letters, 2014, 394, 111-123.	4.4	66
27	Reply to the â€œComment by Delmelle et al. (2013) on â€˜Scavenging of sulfur, halogens and trace metals by volcanic ash: The 2010 EyjafjallajÃ¶kull eruptionâ€™ by Bagnato et al. (2013)â€• Geochimica Et Cosmochimica Acta, 2014, 127, 385-389.	3.9	1
28	Identifying recycled ash in basaltic eruptions. Scientific Reports, 2014, 4, 5851.	3.3	46
29	Small-scale coexistence of island-arc- and enriched-MORB-type basalts in the central Vanuatu arc. Contributions To Mineralogy and Petrology, 2013, 166, 1305-1321.	3.1	41
30	Effects of experimental reheating of natural basaltic ash at different temperatures and redox conditions. Contributions To Mineralogy and Petrology, 2013, 165, 863-883.	3.1	22
31	Scavenging of sulphur, halogens and trace metals by volcanic ash: The 2010 EyjafjallajÃ¶kull eruption. Geochimica Et Cosmochimica Acta, 2013, 103, 138-160.	3.9	54
32	Chapter 14 Stromboli volcano, Aeolian Islands (Italy): present eruptive activity and hazards. Geological Society Memoir, 2013, 37, 473-490.	1.7	91
33	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. Annals of Geophysics, 2013, 56, .	1.0	3
34	Xenopumices from the 2011â€“2012 submarine eruption of El Hierro (Canary Islands, Spain): Constraints on the plumbing system and magma ascent. Geophysical Research Letters, 2012, 39, .	4.0	65
35	Crystal fractionation, magma step ascent, and syn-eruptive mingling: the Averno 2 eruption (Phlegraean Fields, Italy). Contributions To Mineralogy and Petrology, 2012, 163, 1121-1137.	3.1	30
36	Geochemical heterogeneities and dynamics of magmas within the plumbing system of a persistently active volcano: evidence from Stromboli. Bulletin of Volcanology, 2012, 74, 881-894.	3.0	22

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37	Comment on â€˜Conduit convection, magma mixing, and melt inclusion trends at persistent degassing volcanoesâ€™ by Fred Witham, published in Earth Planetary Science Letters (2011) 301, 345â€“352. Earth and Planetary Science Letters, 2011, 306, 306-308.	4.4	6
38	Ash erupted during normal activity at Stromboli (Aeolian Islands, Italy) raises questions on how the feeding system works. Bulletin of Volcanology, 2011, 73, 471-477.	3.0	41
39	Dynamics of ash-dominated eruptions at Vesuvius: the post-512ÂAD AS1a event. Bulletin of Volcanology, 2011, 73, 699-715.	3.0	25
40	The 512 AD eruption of Vesuvius: complex dynamics of a small scale subplinian event. Bulletin of Volcanology, 2011, 73, 789-810.	3.0	30
41	Paroxysmal activity at Stromboli: lessons from the past. Bulletin of Volcanology, 2011, 73, 1229-1243.	3.0	61
42	Magma and Volatile Supply to Post-collapse Volcanism and Block Resurgence in Siwi Caldera (Tanna) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	2.8	84
43	A physico-chemical assessment of the health hazard of Mt. Vesuvius volcanic ash. Journal of Volcanology and Geothermal Research, 2010, 191, 222-232.	2.1	33
44	Conditions of Magma Storage, Degassing and Ascent at Stromboli: New Insights into the Volcano Plumbing System with Inferences on the Eruptive Dynamics. Journal of Petrology, 2010, 51, 603-626.	2.8	208
45	A model of degassing for Stromboli volcano. Earth and Planetary Science Letters, 2010, 295, 195-204.	4.4	148
46	Distal Turbidites and Tsunamigenic Landslides of Stromboli Volcano (Aeolian Islands, Italy). , 2010, , 719-731.		14
47	Subaqueous density flow processes and deposits of an island volcano landslide (Stromboli Island,) Tj ETQq1 1 0.784314 rgBT /Overlock	3.1	23
48	Sedimentologic and volcanologic investigation of the deep tyrrhenian sea: preliminary result of cruise VST02. Annals of Geophysics, 2009, 49, .	1.0	3
49	Deep water gravity core from the Marsili Basin (Tyrrhenian Sea) records Pleistocenicâ€“Holocenic explosive events and instability of the Aeolian Archipelago, (Italy). Journal of Volcanology and Geothermal Research, 2008, 177, 133-144.	2.1	20
50	Recycling and â€œre-hydrationâ€•of degassed magma inducing transient dissolution/crystallization events at Stromboli (Italy). Journal of Volcanology and Geothermal Research, 2008, 174, 325-336.	2.1	49
51	Explosive activity and eruption scenarios at Somma-Vesuvius (Italy): Towards a new classification scheme. Journal of Volcanology and Geothermal Research, 2008, 178, 331-346.	2.1	166
52	Developing an Event Tree for probabilistic hazard and risk assessment at Vesuvius. Journal of Volcanology and Geothermal Research, 2008, 178, 397-415.	2.1	179
53	Fingerprinting ash deposits of small scale eruptions by their physical and textural features. Journal of Volcanology and Geothermal Research, 2008, 177, 277-287.	2.1	51
54	Newly discovered submarine flank eruption at Stromboli volcano (Aeolian Islands, Italy). Geophysical Research Letters, 2008, 35, .	4.0	23

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55	Blackening of Pompeian Cinnabar Paintings:â€‰ X-ray Microspectroscopy Analysis. Analytical Chemistry, 2006, 78, 7484-7492.	6.5	157
56	A case history of paroxysmal explosion at Stromboli: Timing and dynamics of the April 5, 2003 event. Earth and Planetary Science Letters, 2006, 243, 594-606.	4.4	138
57	Eruption early warning at Vesuvius: The A.D. 1631 lesson. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	24
58	Changes in eruptive style during the A.D. 1538 Monte Nuovo eruption (Phlegrean Fields, Italy): the role of syn-eruptive crystallization. Bulletin of Volcanology, 2005, 67, 601-621.	3.0	77
59	Triggering mechanism at the origin of paroxysms at Stromboli (Aeolian Archipelago, Italy): The 5 April 2003 eruption. Geophysical Research Letters, 2005, 32, .	4.0	103
60	Dynamics of magma mixing and degassing recorded in plagioclase at Stromboli (Aeolian Archipelago,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf	3.1	149
61	Stromboli volcano (Aeolian Archipelago, Italy): An open window on the deep-feeding system of a steady state basaltic volcano. Journal of Geophysical Research, 2003, 108, .	3.3	173
62	Crystallization Driven by Decompression and Water Loss at Stromboli Volcano (Aeolian Islands, Italy). Journal of Petrology, 2001, 42, 1471-1490.	2.8	264
63	Onset of the persistent activity at Stromboli Volcano (Italy). Bulletin of Volcanology, 2000, 62, 294-300.	3.0	228
64	Chemical zoning and crystallization mechanisms in the magma chamber of the Pomici di Base plinian eruption of Somma-Vesuvius (Italy). Contributions To Mineralogy and Petrology, 1999, 135, 179-197.	3.1	55
65	Violent explosions yield new insights into dynamics of Stromboli volcano. Eos, 1999, 80, 633.	0.1	89
66	The Pomici di Base plinian eruption of Somma-Vesuvius. Journal of Volcanology and Geothermal Research, 1998, 83, 219-239.	2.1	90
67	The Secche di Lazzaro pyroclastics of Stromboli volcano: a phreatomagmatic eruption related to the Sciara del Fuoco sector collapse. Bulletin of Volcanology, 1996, 58, 239-245.	3.0	45
68	Mafic inclusions in the silica-rich rocks of the Tolfa-Ceriti-Manziana volcanic district (Tuscan) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 222 T	1.1	8
69	Eruptive Dynamics and Petrogenetic Processes in a very Shallow Magma Reservoir: the 1906 Eruption of Vesuvius. Journal of Petrology, 1993, 34, 383-425.	2.8	81
70	A review on phreatic eruptions and their precursors. Journal of Volcanology and Geothermal Research, 1992, 52, 231-246.	2.1	178
71	The 1906 eruption of Vesuvius: from magmatic to phreatomagmatic activity through the flashing of a shallow depth hydrothermal system. Bulletin of Volcanology, 1991, 53, 517-532.	3.0	44
72	Volcanology and Magma Geochemistry of the Present-Day Activity: Constraints on the Feeding System. Geophysical Monograph Series, 0, , 19-37.	0.1	27

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73	Deep-Sea Deposits of the Stromboli 30 December 2002 Landslide. Geophysical Monograph Series, 0, , 157-169.	0.1	1
74	The Paroxysmal Event and Its Deposits. Geophysical Monograph Series, 0, , 317-329.	0.1	19
75	Mineralogical, Geochemical, and Isotopic Characteristics of the Ejecta from the 5 April 2003 Paroxysm at Stromboli, Italy: Inferences on the Preeruptive Magma Dynamics. Geophysical Monograph Series, 0, , 331-345.	0.1	8