Alessandro Bonforte

List of Publications by Year
in descending order

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Version: 2024-02-01

69 papers	2,050 citations	159358 30 h-index	243296 44 g-index
84 all docs	84 docs citations	84 times ranked	1309 citing authors

#	Article	IF	Citations
1	The Submarine Boundaries of Mount Etnaâ€™s Unstable Southeastern Flank. Frontiers in Earth Science, 2022, 10, .	0.8	6
2	The 2004â€“2005ÂMt. Etna Compound Lava Flow Field: A Retrospective Analysis by Combining Remote and Field Methods. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020499.	1.4	8
3	Combining High- and Low-Rate Geodetic Data Analysis for Unveiling Rapid Magma Transfer Feeding a Sequence of Violent Summit Paroxysms at Etna in Late 2015. Applied Sciences (Switzerland), 2021, 11, 4630.	1.3	5
4	Repeating earthquakes and ground deformation reveal the structure and triggering mechanisms of the Pernicana fault, Mt. Etna. Communications Earth & Environment, 2021, 2, .	2.6	4
5	Special Issue â€œData Processing and Modeling on Volcanic and Seismic Areasâ€. Applied Sciences (Switzerland), 2021, 11, 10759.	1.3	0
6	Editorial: Flank dynamics, sector collapses, lahars, and rockfalls: analysis, monitoring, and modelling of small to large scale volcanic slope instability. International Journal of Earth Sciences, 2020, 109, 2615-2618.	0.9	1
7	Dynamics of Vulcano Island (Tyrrhenian Sea, Italy) investigated by long-term (40â€¯years) geophysical data. Earth-Science Reviews, 2019, 190, 521-535.	4.0	14
8	Large dyke intrusion and small eruption: The December 24, 2018 Mt. Etna eruption imaged by Sentinelâ€1 data. Terra Nova, 2019, 31, 405-412.	0.9	63
9	Gravitational collapse of Mount Etnaâ€™s southeastern flank. Science Advances, 2018, 4, eaat9700.	4.7	60
10	The spectrum of persistent volcanic flank instability: A review and proposed framework based on KÄ«lauea, Piton de la Fournaise, and Etna. Journal of Volcanology and Geothermal Research, 2017, 339, 63-80.	0.8	44
11	Long-term dynamics across a volcanic rift: 21 years of microgravity and GPS observations on the southern flank of Mt. Etna volcano. Journal of Volcanology and Geothermal Research, 2017, 344, 174-184.	0.8	14
12	Decomposing DInSAR Time-Series into 3-D in Combination with GPS in the Case of Low Strain Rates: An Application to the Hyblean Plateau, Sicily, Italy. Remote Sensing, 2017, 9, 33.	1.8	22
13	The unrest of the San Miguel volcano (El Salvador, Central America): installation of the monitoring network and observed volcano-tectonic ground deformation. Natural Hazards and Earth System Sciences, 2016, 16, 1755-1769.	1.5	3
14	Why Does a Mature Volcano Need New Vents? The Case of the New Southeast Crater at Etna. Frontiers in Earth Science, 2016, 4, .	0.8	41
15	Joint Terrestrial and Aerial Measurements to Study Ground Deformation: Application to the Sciara Del Fuoco at the Stromboli Volcano (Sicily). Remote Sensing, 2016, 8, 463.	1.8	8
16	Global positioning system survey data for active seismic and volcanic areas of eastern Sicily, 1994 to 2013. Scientific Data, 2016, 3, 160062.	2.4	7
17	Mt. Etna volcano high-resolution topography: airborne LiDAR modelling validated by GPS data. International Journal of Digital Earth, 2016, 9, 710-732.	1.6	15
18	Very shallow dyke intrusion and potential slope failure imaged by ground deformation: The 28 December 2014 eruption on Mount Etna. Geophysical Research Letters, 2015, 42, 2727-2733.	1.5	35

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19	Twentyâ€five years of continuous borehole tilt and vertical displacement data at Mount Etna: Insights on longâ€term volcanic dynamics. Geophysical Research Letters, 2015, 42, 10,222.	1.5	14
20	GPS and DInSAR timeseries SISTEM integration for interseismic motion detection — A case study from the Hyblean Plateau in South-East Sicily. , 2015, , .		0
21	Geological and geodetic constraints on the active deformation along the northern margin of the Hyblean Plateau (SE Sicily). Tectonophysics, 2015, 640-641, 80-89.	0.9	22
22	Eighteen years of GPS surveys in the Aeolian Islands (southern Italy): open data archive and velocity field. Annals of Geophysics, 2015, 58, .	0.5	8
23	Fast geodetic strain-rates in eastern Sicily (southern Italy): New insights into block tectonics and seismic potential in the area of the great 1693 earthquake. Earth and Planetary Science Letters, 2014, 404, 77-88.	1.8	43
24	Experimental study of the interplay between magmatic rift intrusion and flank instability with application to the 2001 Mount Etna eruption. Journal of Geophysical Research: Solid Earth, 2014, 119, 5356-5368.	1.4	11
25	Seismic potential in Italy from integration and comparison of seismic and geodetic strain rates. Tectonophysics, 2013, 608, 996-1006.	0.9	16
26	Interaction between magma intrusion and flank dynamics at Mt. Etna in 2008, imaged by integrated dense GPS and DInSAR data. Geochemistry, Geophysics, Geosystems, 2013, 14, 2818-2835.	1.0	31
27	Soil gases and SAR measurements reveal hidden faults on the sliding flank of Mt. Etna (Italy). Journal of Volcanology and Geothermal Research, 2013, 251, 27-40.	0.8	39
28	Geometry and kinematics of the fault systems controlling the unstable flank of Etna volcano (Sicily). Journal of Volcanology and Geothermal Research, 2013, 251, 5-15.	0.8	60
29	A multidisciplinary study of an active fault crossing urban areas: The Trecastagni Fault at Mt. Etna (Italy). Journal of Volcanology and Geothermal Research, 2013, 251, 41-49.	0.8	15
30	The influence of erosional processes on the visibility of Permanent Scatterers Features from SAR remote sensing on Mount Etna (E Sicily). Geomorphology, 2013, 198, 128-137.	1.1	14
31	A pilot GIS database of active faults of Mt. Etna (Sicily): A tool for integrated hazard evaluation. Journal of Volcanology and Geothermal Research, 2013, 251, 170-186.	0.8	49
32	Longâ€term stressâ€strain analysis of volcano flank instability: The eastern sector of Etna from 1980 to 2012. Journal of Geophysical Research: Solid Earth, 2013, 118, 5098-5108.	1.4	26
33	Remote Sensing and Geodetic Measurements for Volcanic Slope Monitoring: Surface Variations Measured at Northern Flank of La Fossa Cone (Vulcano Island, Italy). Remote Sensing, 2013, 5, 2238-2256.	1.8	20
34	Vent temperature trends at the Vulcano Fossa fumarole field: the role of permeability. Bulletin of Volcanology, 2012, 74, 1293-1311.	1.1	36
35	Structural assessment of Mount Etna volcano from Permanent Scatterers analysis. Geochemistry, Geophysics, Geosystems, 2011, 12, n/a-n/a.	1.0	120
36	The initial phases of the 2008â€“2009 Mount Etna eruption: A multidisciplinary approach for hazard assessment. Journal of Geophysical Research, 2011, 116, .	3.3	93

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37	Analysis of satellite and in situ ground deformation data integrated by the SISTEM approach: The April 3, 2010 earthquake along the Pernicana fault (Mt. Etna - Italy) case study. Earth and Planetary Science Letters, 2011, 312, 327-336.	1.8	52
38	Magma storage, eruptive activity and flank instability: Inferences from ground deformation and gravity changes during the 1993â€“2000 recharging of Mt. Etna volcano. Journal of Volcanology and Geothermal Research, 2011, 200, 245-254.	0.8	37
39	Evidence of multiple strain fields beneath the eastern flank of Mt. Etna volcano (Sicily, Italy) deduced from seismic and geodetic data during 2003â€“2004. Bulletin of Volcanology, 2011, 73, 869-885.	1.1	35
40	Application of BET_EF at Mount Etna: a retrospective analysis (years 2001-2005). Annals of Geophysics, 2011, 54, .	0.5	3
41	Strain Analysis of the Sciara del Fuoco (Stromboli Volcano). Lecture Notes in Electrical Engineering, 2011, , 317-323.	0.3	0
42	Displacement across the Trecastagni Fault (Mt. Etna) and induced seismicity: the October 2009 to January 2010 episode. Annals of Geophysics, 2011, 54, .	0.5	1
43	Thermal expansion-contraction and slope instability of a fumarole field inferred from geodetic measurements at Vulcano. Bulletin of Volcanology, 2010, 72, 791-801.	1.1	23
44	Inverse Modeling of 3D High Resolution Ground Deformation Maps Derived by Integrating GPS and DInSAR Data. , 2010, , .		0
45	Insight on recent Stromboli eruption inferred from terrestrial and satellite ground deformation measurements. Journal of Volcanology and Geothermal Research, 2009, 182, 172-181.	0.8	30
46	Intrusion of eccentric dikes: The case of the 2001 eruption and its role in the dynamics of Mt. Etna volcano. Tectonophysics, 2009, 471, 78-86.	0.9	57
47	Small World Behavior of the Planetary Active Volcanoes Network: Preliminary Results. Studies in Computational Intelligence, 2009, , 15-21.	0.7	0
48	Kinematics and strain analyses of the eastern segment of the Pernicana Fault (Mt. Etna, Italy) derived from geodetic techniques (1997-2005). Annals of Geophysics, 2009, 49, .	0.5	0
49	Dynamics of Mount Etna before, during, and after the Julyâ€“August 2001 eruption inferred from GPS and differential synthetic aperture radar interferometry data. Journal of Geophysical Research, 2008, 113, .	3.3	63
50	Feeding system and magma storage beneath Mt. Etna as revealed by recent inflation/deflation cycles. Journal of Geophysical Research, 2008, 113, .	3.3	128
51	Transpressive strain on the Liparià€“Vulcano volcanic complex and dynamics of the â€œLa Fossaâ€•cone (Aeolian Islands, Sicily) revealed by GPS surveys on a dense network. Tectonophysics, 2008, 457, 64-70.	0.9	27
52	A decade of applying Differential SAR Interferometry on Mount Etna volcano: Analysis at different time and space scales. , 2008, , .		0
53	Definition of the deformation pattern of Sicily (Italy) through DInSAR techniques and studies on its integration with geodetic data. , 2008, , .		0
54	Intrusive mechanism of the 2002 NE-rift eruption at Mt Etna (Italy) modelled using GPS and gravity data. Geophysical Journal International, 2007, 169, 339-347.	1.0	39

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55	Geometric and kinematic variations along the active Pernicana fault: Implication for the dynamics of Mount Etna NE flank (Italy). Journal of Volcanology and Geothermal Research, 2007, 160, 210-222.	0.8	35
56	Ground deformation modeling of flank dynamics prior to the 2002 eruption of Mt. Etna. Bulletin of Volcanology, 2007, 69, 757-768.	1.1	40
57	Large scale ground deformation of Etna observed by GPS between 1994 and 2001. Geophysical Research Letters, 2006, 33, .	1.5	35
58	Composite ground deformation pattern forerunning the 2004-2005 Mount Etna eruption. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	63
59	Correction to â€œLarge scale ground deformation of Etna observed by GPS between 1994 and 2001â€. Geophysical Research Letters, 2006, 33, .	1.5	1
60	Dynamics of the eastern flank of Mt. Etna volcano (Italy) investigated by a dense GPS network. Journal of Volcanology and Geothermal Research, 2006, 153, 357-369.	0.8	73
61	New integrated geodetic monitoring system at Stromboli volcano (Italy). Engineering Geology, 2005, 79, 13-31.	2.9	45
62	Twelve years of ground deformation studies on Mt. Etna volcano based on GPS surveys. Geophysical Monograph Series, 2004, , 321-341.	0.1	21
63	A syn-eruptive ground deformation episode measured by GPS, during the 2001 eruption on the upper southern flank of Mt Etna. Bulletin of Volcanology, 2004, 66, 336-341.	1.1	36
64	Dynamics of Mount Etna Volcano inferred from static and kinematic GPS measurements. Journal of Geophysical Research, 2004, 109, .	3.3	67
65	Magma uprising and flank dynamics on Mount Etna volcano, studied using GPS data (1994-1995). Journal of Geophysical Research, 2003, 108, .	3.3	72
66	Ground deformation patterns on Mount Etna, 1992 to 1994, inferred from GPS data. Bulletin of Volcanology, 2001, 62, 371-384.	1.1	56
67	Calibration of atmospheric effects on SAR interferograms by GPS and local atmosphere models: first results. Journal of Atmospheric and Solar-Terrestrial Physics, 2001, 63, 1343-1357.	0.6	38
68	Ground Deformations Related to the Effusive Eruptions of Stromboli: The 2002-2003 Case. Geophysical Monograph Series, 0, , 247-257.	0.1	0
69	Movements of the Sciara Del Fuoco. Geophysical Monograph Series, 0, , 183-199.	0.1	4