

# Alessandro Bonforte

## List of Publications by Year in descending order

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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	Feeding system and magma storage beneath Mt. Etna as revealed by recent inflation/deflation cycles. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	128
2	Structural assessment of Mount Etna volcano from Permanent Scatterers analysis. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	120
3	The initial phases of the 2008–2009 Mount Etna eruption: A multidisciplinary approach for hazard assessment. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	93
4	Dynamics of the eastern flank of Mt. Etna volcano (Italy) investigated by a dense GPS network. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 153, 357-369.	0.8	73
5	Magma uprising and flank dynamics on Mount Etna volcano, studied using GPS data (1994-1995). <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	72
6	Dynamics of Mount Etna Volcano inferred from static and kinematic GPS measurements. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	67
7	Composite ground deformation pattern forerunning the 2004-2005 Mount Etna eruption. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	63
8	Dynamics of Mount Etna before, during, and after the July–August 2001 eruption inferred from GPS and differential synthetic aperture radar interferometry data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	63
9	Large dyke intrusion and small eruption: The December 24, 2018 Mt. Etna eruption imaged by Sentinel-1 data. <i>Terra Nova</i> , 2019, 31, 405-412.	0.9	63
10	Geometry and kinematics of the fault systems controlling the unstable flank of Etna volcano (Sicily). <i>Journal of Volcanology and Geothermal Research</i> , 2013, 251, 5-15.	0.8	60
11	Gravitational collapse of Mount Etna's southeastern flank. <i>Science Advances</i> , 2018, 4, eaat9700.	4.7	60
12	Intrusion of eccentric dikes: The case of the 2001 eruption and its role in the dynamics of Mt. Etna volcano. <i>Tectonophysics</i> , 2009, 471, 78-86.	0.9	57
13	Ground deformation patterns on Mount Etna, 1992 to 1994, inferred from GPS data. <i>Bulletin of Volcanology</i> , 2001, 62, 371-384.	1.1	56
14	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. <i>Earth and Planetary Science Letters</i> , 2011, 312, 327-336.	1.8	52
15	A pilot GIS database of active faults of Mt. Etna (Sicily): A tool for integrated hazard evaluation. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 251, 170-186.	0.8	49
16	New integrated geodetic monitoring system at Stromboli volcano (Italy). <i>Engineering Geology</i> , 2005, 79, 13-31.	2.9	45
17	The spectrum of persistent volcanic flank instability: A review and proposed framework based on K�lauea, Piton de la Fournaise, and Etna. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 339, 63-80.	0.8	44
18	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. <i>Earth and Planetary Science Letters</i> , 2014, 404, 77-88.	1.8	43

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19	Why Does a Mature Volcano Need New Vents? The Case of the New Southeast Crater at Etna. <i>Frontiers in Earth Science</i> , 2016, 4, .	0.8	41
20	Ground deformation modeling of flank dynamics prior to the 2002 eruption of Mt. Etna. <i>Bulletin of Volcanology</i> , 2007, 69, 757-768.	1.1	40
21	Intrusive mechanism of the 2002 NE-rift eruption at Mt Etna (Italy) modelled using GPS and gravity data. <i>Geophysical Journal International</i> , 2007, 169, 339-347.	1.0	39
22	Soil gases and SAR measurements reveal hidden faults on the sliding flank of Mt. Etna (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2013, 251, 27-40.	0.8	39
23	Calibration of atmospheric effects on SAR interferograms by GPS and local atmosphere models: first results. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001, 63, 1343-1357.	0.6	38
24	Magma storage, eruptive activity and flank instability: Inferences from ground deformation and gravity changes during the 1993–2000 recharging of Mt. Etna volcano. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 200, 245-254.	0.8	37
25	A syn-eruptive ground deformation episode measured by GPS, during the 2001 eruption on the upper southern flank of Mt Etna. <i>Bulletin of Volcanology</i> , 2004, 66, 336-341.	1.1	36
26	Vent temperature trends at the Vulcano Fossa fumarole field: the role of permeability. <i>Bulletin of Volcanology</i> , 2012, 74, 1293-1311.	1.1	36
27	Large scale ground deformation of Etna observed by GPS between 1994 and 2001. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	35
28	Geometric and kinematic variations along the active Pernicana fault: Implication for the dynamics of Mount Etna NE flank (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2007, 160, 210-222.	0.8	35
29	Evidence of multiple strain fields beneath the eastern flank of Mt. Etna volcano (Sicily, Italy) deduced from seismic and geodetic data during 2003–2004. <i>Bulletin of Volcanology</i> , 2011, 73, 869-885.	1.1	35
30	Very shallow dyke intrusion and potential slope failure imaged by ground deformation: The 28 December 2014 eruption on Mount Etna. <i>Geophysical Research Letters</i> , 2015, 42, 2727-2733.	1.5	35
31	Interaction between magma intrusion and flank dynamics at Mt. Etna in 2008, imaged by integrated dense GPS and DInSAR data. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 2818-2835.	1.0	31
32	Insight on recent Stromboli eruption inferred from terrestrial and satellite ground deformation measurements. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 182, 172-181.	0.8	30
33	Transpressive strain on the Lipari–Vulcano volcanic complex and dynamics of the ‘La Fossa’ cone (Aeolian Islands, Sicily) revealed by GPS surveys on a dense network. <i>Tectonophysics</i> , 2008, 457, 64-70.	0.9	27
34	Long-term stress-strain analysis of volcano flank instability: The eastern sector of Etna from 1980 to 2012. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 5098-5108.	1.4	26
35	Thermal expansion-contraction and slope instability of a fumarole field inferred from geodetic measurements at Vulcano. <i>Bulletin of Volcanology</i> , 2010, 72, 791-801.	1.1	23
36	Geological and geodetic constraints on the active deformation along the northern margin of the Hyblean Plateau (SE Sicily). <i>Tectonophysics</i> , 2015, 640-641, 80-89.	0.9	22

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37	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. <i>Remote Sensing</i> , 2017, 9, 33.	1.8	22
38	Twelve years of ground deformation studies on Mt. Etna volcano based on GPS surveys. <i>Geophysical Monograph Series</i> , 2004, , 321-341.	0.1	21
39	Remote Sensing and Geodetic Measurements for Volcanic Slope Monitoring: Surface Variations Measured at Northern Flank of La Fossa Cone (Vulcano Island, Italy). <i>Remote Sensing</i> , 2013, 5, 2238-2256.	1.8	20
40	Seismic potential in Italy from integration and comparison of seismic and geodetic strain rates. <i>Tectonophysics</i> , 2013, 608, 996-1006.	0.9	16
41	A multidisciplinary study of an active fault crossing urban areas: The Trecastagni Fault at Mt. Etna (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2013, 251, 41-49.	0.8	15
42	Mt. Etna volcano high-resolution topography: airborne LiDAR modelling validated by GPS data. <i>International Journal of Digital Earth</i> , 2016, 9, 710-732.	1.6	15
43	The influence of erosional processes on the visibility of Permanent Scatterers Features from SAR remote sensing on Mount Etna (E Sicily). <i>Geomorphology</i> , 2013, 198, 128-137.	1.1	14
44	Twenty-five years of continuous borehole tilt and vertical displacement data at Mount Etna: Insights on long-term volcanic dynamics. <i>Geophysical Research Letters</i> , 2015, 42, 10,222.	1.5	14
45	Long-term dynamics across a volcanic rift: 21 years of microgravity and GPS observations on the southern flank of Mt. Etna volcano. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 344, 174-184.	0.8	14
46	Dynamics of Vulcano Island (Tyrrhenian Sea, Italy) investigated by long-term (40 years) geophysical data. <i>Earth-Science Reviews</i> , 2019, 190, 521-535.	4.0	14
47	Experimental study of the interplay between magmatic rift intrusion and flank instability with application to the 2001 Mount Etna eruption. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 5356-5368.	1.4	11
48	Joint Terrestrial and Aerial Measurements to Study Ground Deformation: Application to the Sciara Del Fuoco at the Stromboli Volcano (Sicily). <i>Remote Sensing</i> , 2016, 8, 463.	1.8	8
49	The 2004-2005 Mt. Etna Compound Lava Flow Field: A Retrospective Analysis by Combining Remote and Field Methods. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020499.	1.4	8
50	Eighteen years of GPS surveys in the Aeolian Islands (southern Italy): open data archive and velocity field. <i>Annals of Geophysics</i> , 2015, 58, .	0.5	8
51	Global positioning system survey data for active seismic and volcanic areas of eastern Sicily, 1994 to 2013. <i>Scientific Data</i> , 2016, 3, 160062.	2.4	7
52	The Submarine Boundaries of Mount Etna's Unstable Southeastern Flank. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	6
53	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. <i>Applied Sciences (Switzerland)</i> , 2021, 11, 4630.	1.3	5
54	Movements of the Sciara Del Fuoco. <i>Geophysical Monograph Series</i> , 0, , 183-199.	0.1	4

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55	Repeating earthquakes and ground deformation reveal the structure and triggering mechanisms of the Pernicana fault, Mt. Etna. <i>Communications Earth &amp; Environment</i> , 2021, 2, .	2.6	4
56	The unrest of the San Miguel volcano (El Salvador, Central America): installation of the monitoring network and observed volcano-tectonic ground deformation. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 1755-1769.	1.5	3
57	Application of BET_EF at Mount Etna: a retrospective analysis (years 2001-2005). <i>Annals of Geophysics</i> , 2011, 54, .	0.5	3
58	Correction to "Large scale ground deformation of Etna observed by GPS between 1994 and 2001". <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	1
59	Editorial: Flank dynamics, sector collapses, lahars, and rockfalls: analysis, monitoring, and modelling of small to large scale volcanic slope instability. <i>International Journal of Earth Sciences</i> , 2020, 109, 2615-2618.	0.9	1
60	Displacement across the Trecastagni Fault (Mt. Etna) and induced seismicity: the October 2009 to January 2010 episode. <i>Annals of Geophysics</i> , 2011, 54, .	0.5	1
61	A decade of applying Differential SAR Interferometry on Mount Etna volcano: Analysis at different time and space scales. , 2008, , .		0
62	Definition of the deformation pattern of Sicily (Italy) through DInSAR techniques and studies on its integration with geodetic data. , 2008, , .		0
63	Inverse Modeling of 3D High Resolution Ground Deformation Maps Derived by Integrating GPS and DInSAR Data. , 2010, , .		0
64	Ground Deformations Related to the Effusive Eruptions of Stromboli: The 2002-2003 Case. <i>Geophysical Monograph Series</i> , 0, , 247-257.	0.1	0
65	GPS and DInSAR timeseries SISTEM integration for interseismic motion detection &#x2014; A case study from the Hyblean Plateau in South-East Sicily. , 2015, , .		0
66	Small World Behavior of the Planetary Active Volcanoes Network: Preliminary Results. <i>Studies in Computational Intelligence</i> , 2009, , 15-21.	0.7	0
67	Kinematics and strain analyses of the eastern segment of the Pernicana Fault (Mt. Etna, Italy) derived from geodetic techniques (1997-2005). <i>Annals of Geophysics</i> , 2009, 49, .	0.5	0
68	Strain Analysis of the Sciara del Fuoco (Stromboli Volcano). <i>Lecture Notes in Electrical Engineering</i> , 2011, , 317-323.	0.3	0
69	Special Issue "Data Processing and Modeling on Volcanic and Seismic Areas". <i>Applied Sciences (Switzerland)</i> , 2021, 11, 10759.	1.3	0