

# Giuseppe Puglisi

## List of Publications by Year in descending order

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81  
papers

2,545  
citations

117625

34  
h-index

189892

50  
g-index

95  
all docs

95  
docs citations

95  
times ranked

1779  
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.	2.5	120
3	Generation of digital elevation models by using SIR-C/X-SAR multifrequency two-pass interferometry: the Etna case study. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1996, 34, 1097-1114.	6.3	116
4	Atmospheric models, GPS and InSAR measurements of the tropospheric water vapour field over Mount Etna. <i>Geophysical Research Letters</i> , 2002, 29, 11-1-11-4.	4.0	101
5	Luminex technology for anti-HLA antibody screening: Evaluation of performance and of impact on laboratory routine. <i>Cytometry Part B - Clinical Cytometry</i> , 2007, 72B, 465-471.	1.5	90
6	Patterns in the recent 2007â€“2008 activity of Mount Etna volcano investigated by integrated geophysical and geochemical observations. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	2.5	88
7	Coupled magma chamber inflation and sector collapse slip observed with synthetic aperture radar interferometry on Mt. Etna volcano. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	86
8	Ground deformation patterns at Mt. Etna from 1993 to 2000 from joint use of InSAR and GPS techniques. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 169, 99-120.	2.1	83
9	Simultaneous and Integrated Strain Tensor Estimation From Geodetic and Satellite Deformation Measurements to Obtain Three-Dimensional Displacement Maps. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 1815-1826.	6.3	74
10	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.	2.1	73
11	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
12	Dynamics of Mount Etna Volcano inferred from static and kinematic GPS measurements. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	67
13	A new dyke intrusion style for the Mount Etna May 2008 eruption modelled through continuous tilt and GPS data. <i>Terra Nova</i> , 2009, 21, 316-321.	2.1	65
14	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
15	Dynamics of Mount Etna before, during, and after the Julyâ€“August 2001 eruption inferred from GPS and differential synthetic aperture radar interferometry data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	63
16	Large dyke intrusion and small eruption: The December 24, 2018 Mt. Etna eruption imaged by Sentinelâ€“1 data. <i>Terra Nova</i> , 2019, 31, 405-412.	2.1	63
17	Gravitational collapse of Mount Etnaâ€™s southeastern flank. <i>Science Advances</i> , 2018, 4, eaat9700.	10.3	60
18	Etna 2002 eruption imaged from continuous tilt and GPS data. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	4.0	57

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19	Ground deformation patterns on Mount Etna, 1992 to 1994, inferred from GPS data. <i>Bulletin of Volcanology</i> , 2001, 62, 371-384.	3.0	56
20	Fault creep and kinematics of the eastern segment of the Pernicana Fault (Mt. Etna, Italy) derived from geodetic observations and their tectonic significance. <i>Tectonophysics</i> , 2001, 333, 401-415.	2.2	53
21	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.	4.4	52
22	SIR-C/X-SAR multifrequency multipass interferometry: A new tool for geological interpretation. <i>Journal of Geophysical Research</i> , 1996, 101, 23127-23148.	3.3	46
23	New integrated geodetic monitoring system at Stromboli volcano (Italy). <i>Engineering Geology</i> , 2005, 79, 13-31.	6.3	45
24	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.	2.1	44
25	Stromboli 2007 eruption: Deflation modeling to infer shallow��intermediate plumbing system. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	43
26	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.	4.4	43
27	Long-term expansion and maintenance of cord blood haematopoietic stem cells using thrombopoietin, Flt3-ligand, interleukin (IL)-6 and IL-11 in a serum-free and stroma-free culture system. <i>British Journal of Haematology</i> , 2001, 112, 397-404.	2.5	42
28	Validation and comparison of different techniques for the derivation of digital elevation models and volcanic monitoring (Vulcano Island, Italy). <i>International Journal of Remote Sensing</i> , 2002, 23, 4783-4800.	2.9	42
29	Ground deformation modeling of flank dynamics prior to the 2002 eruption of Mt. Etna. <i>Bulletin of Volcanology</i> , 2007, 69, 757-768.	3.0	40
30	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.	1.6	38
31	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.	3.0	36
32	Real Time Tracking of Magmatic Intrusions by means of Ground Deformation Modeling during Volcanic Crises. <i>Scientific Reports</i> , 2015, 5, 10970.	3.3	36
33	The global positioning system as a useful technique for measuring ground deformations in volcanic areas. <i>Journal of Volcanology and Geothermal Research</i> , 1994, 61, 267-280.	2.1	35
34	Large scale ground deformation of Etna observed by GPS between 1994 and 2001. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	35
35	Time-dependent deformation of the eastern flank of Mt. Etna: After-slip or viscoelastic relaxation?. <i>Tectonophysics</i> , 2009, 473, 300-311.	2.2	34
36	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.	2.5	31

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37	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.	2.1	30
38	Multidisciplinary study of the Tindari Fault (Sicily, Italy) separating ongoing contractional and extensional compartments along the active Africa–Eurasia convergent boundary. <i>Tectonophysics</i> , 2013, 588, 1-17.	2.2	29
39	Digital elevation model generation using ascending and descending ERS-1/ERS-2 tandem data. <i>International Journal of Remote Sensing</i> , 1999, 20, 1527-1547.	2.9	28
40	Inversion of SAR data in active volcanic areas by optimization techniques. <i>Nonlinear Processes in Geophysics</i> , 2005, 12, 863-870.	1.3	25
41	Magma intrusion mechanisms and redistribution of seismogenic stress at Mt. Etna volcano (1997–1998). <i>Terra Nova</i> , 2011, 23, 339-348.	2.1	23
42	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
43	Multivariate time series clustering on geophysical data recorded at Mt. Etna from 1996 to 2003. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 251, 65-74.	2.1	16
44	How to cope with volcano flank dynamics? A conceptual model behind possible scenarios for Mt. Etna. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 251, 137-148.	2.1	16
45	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.	2.1	15
46	Stress, strain and mass changes at Mt. Etna during the period between the 1991–93 and 2001 flank eruptions. <i>Earth-Science Reviews</i> , 2014, 138, 454-468.	9.1	14
47	Hazard Mitigation of Unstable Volcanic Edifices. <i>Eos</i> , 2010, 91, 357-358.	0.1	13
48	Volcanic ash detection by GPS signal. <i>GPS Solutions</i> , 2013, 17, 485-497.	4.3	13
49	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.	3.4	11
50	Flank instability at Mt. Etna. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 251, 1-4.	2.1	10
51	3D displacement maps of the 2009 L'Aquila earthquake (Italy) by applying the SISTEM method to GPS and DInSAR data. <i>Terra Nova</i> , 2013, 25, 79-85.	2.1	10
52	Eighteen years of GPS surveys in the Aeolian Islands (southern Italy): open data archive and velocity field. <i>Annals of Geophysics</i> , 2015, 58, .	1.0	8
53	Global positioning system survey data for active seismic and volcanic areas of eastern Sicily, 1994 to 2013. <i>Scientific Data</i> , 2016, 3, 160062.	5.3	7
54	The TOMO-ETNA experiment: an imaging active campaign at Mt. Etna volcano. Context, main objectives, working-plans and involved research projects. <i>Annals of Geophysics</i> , 2016, 59, .	1.0	7

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55	Triggering mechanisms of static stress on Mount Etna volcano. An application of the boundary element method. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 245-246, 149-158.	2.1	6
56	Movements of the Sciara Del Fuoco. <i>Geophysical Monograph Series</i> , 0, , 183-199.	0.1	4
57	A Warning System for Stromboli Volcano Based on Statistical Analysis. <i>Pure and Applied Geophysics</i> , 2008, 165, 1619-1641.	1.9	3
58	Analysis of the SBAS-DInSAR displacement time-series accuracies retrieved in volcanic areas through the first and second generation sensor SAR data. , 2013, , .		2
59	The MED-SUV virtual research environment for enabling the GEO Geohazard supersites in Italy. <i>Earth Science Informatics</i> , 2017, 10, 443-455.	3.2	2
60	A New GNSS-Based Approach for Volcanic Crater Location During Lava Fountains. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019, 16, 697-701.	3.1	2
61	Water Vapor Tomography of the Lower Atmosphere from Multiparametric Inversion: the Mt. Etna Volcano Test Case. <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	2
62	GPS tomography tests for DInSAR applications on Mt. Etna. <i>Annals of Geophysics</i> , 2015, 58, .	1.0	2
63	Correction to "Large scale ground deformation of Etna observed by GPS between 1994 and 2001". <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	1
64	Volcanic risk system (SRV): ASI pilot project to support the monitoring of volcanic risk in Italy by means of EO data. , 2008, , .		1
65	2012 hyperspectral airborne campaign on Etna: Multi data acquisition for ASI-PRISMA project. , 2013, , .		1
66	Multi-Hazard Analysis of Etna 2018 Eruption by Sar Imaging. , 2019, , .		1
67	Displacement across the Trecastagni Fault (Mt. Etna) and induced seismicity: the October 2009 to January 2010 episode. <i>Annals of Geophysics</i> , 2011, 54, .	1.0	1
68	ERS-1/ERS-2 tandem data for digital elevation model generation. , 1998, , .		0
69	Implementing a Warning System for Stromboli Volcano. , 2006, , 209-218.		0
70	Noise-induced critical phenomena: a case study. <i>Proceedings of SPIE</i> , 2007, , .	0.8	0
71	A decade of applying Differential SAR Interferometry on Mount Etna volcano: Analysis at different time and space scales. , 2008, , .		0
72	Definition of the deformation pattern of Sicily (Italy) through DInSAR techniques and studies on its integration with geodetic data. , 2008, , .		0

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73	Inverse Modeling of 3D High Resolution Ground Deformation Maps Derived by Integrating GPS and DInSAR Data. , 2010, , .		0
74	Joint inversion of the 2011 Tohoku (Japan) earthquake from dinsar and GPS data. , 2012, , .		0
75	A quantitative assessment of DInSAR Time series accuracy in volcanic areas: From the first to second generation SAR sensors. , 2012, , .		0
76	The Stromboli Volcano: An Integrated Study of the 2002-2003 Eruption-Introduction. Geophysical Monograph Series, 0, , 1-3.	0.1	0
77	Ground Deformations Related to the Effusive Eruptions of Stromboli: The 2002-2003 Case. Geophysical Monograph Series, 0, , 247-257.	0.1	0
78	Integration of European Volcano Infrastructures. , 2015, , 419-443.		0
79	Small World Behavior of the Planetary Active Volcanoes Network: Preliminary Results. Studies in Computational Intelligence, 2009, , 15-21.	0.9	0
80	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, .	1.0	0
81	Strain Analysis of the Sciara del Fuoco (Stromboli Volcano). Lecture Notes in Electrical Engineering, 2011, , 317-323.	0.4	0