Marco Neri

List of Publications by Year
in descending order

110 papers	5,699 citations	50244 46 h-index	85498 71 g-index
111 all docs	111 docs citations	111 times ranked	2343 citing authors

#	Article	IF	Citations
1	A multi-disciplinary study of the 2002?03 Etna eruption: insights into a complex plumbing system. Bulletin of Volcanology, 2005, 67, 314-330.	1.1	271
2	Mount Etna 1993â€“2005: Anatomy of an evolving eruptive cycle. Earth-Science Reviews, 2006, 78, 85-114.	4.0	235
3	The July?August 2001 eruption of Mt. Etna (Sicily). Bulletin of Volcanology, 2003, 65, 461-476.	1.1	187
4	What makes flank eruptions? The 2001 Etna eruption and its possible triggering mechanisms. Bulletin of Volcanology, 2003, 65, 517-529.	1.1	177
5	The role of the Pernicana Fault System in the spreading of Mt. Etna (Italy) during the 2002â€“2003 eruption. Bulletin of Volcanology, 2004, 66, 417-430.	1.1	147
6	Dike propagation in volcanic edifices: Overview and possible developments. Tectonophysics, 2009, 471, 67-77.	0.9	144
7	Etna 2004â€“2005: An archetype for geodynamically-controlled effusive eruptions. Geophysical Research Letters, 2005, 32, .	1.5	120
8	Effusion rate estimations during the 1999 summit eruption on Mount Etna, and growth of two distinct lava flow fields. Journal of Volcanology and Geothermal Research, 2003, 119, 107-123.	0.8	119
9	Anatomy of an unstable volcano from InSAR: Multiple processes affecting flank instability at Mt. Etna, 1994â€“2008. Journal of Geophysical Research, 2010, 115, .	3.3	115
10	Link between major flank slip and 2002-2003 eruption at Mt. Etna (Italy). Geophysical Research Letters, 2003, 30, .	1.5	110
11	Contrasting triggering mechanisms of the 2001 and 2002â€“2003 eruptions of Mount Etna (Italy). Journal of Volcanology and Geothermal Research, 2005, 144, 235-255.	0.8	109
12	Feedback processes between magmatic events and flank movement at Mount Etna (Italy) during the 2002â€“2003 eruption. Journal of Geophysical Research, 2005, 110, .	3.3	107
13	Cycles and trends in the recent eruptive behaviour of Mount Etna (Italy). Canadian Journal of Earth Sciences, 2003, 40, 1405-1411.	0.6	106
14	The exceptional activity and growth of the Southeast Crater, Mount Etna (Italy), between 1996 and 2001. Bulletin of Volcanology, 2006, 69, 149-173.	1.1	105
15	Deformation and eruptions at Mt. Etna (Italy): A lesson from 15 years of observations. Geophysical Research Letters, 2009, 36, .	1.5	96
16	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
17	Evolution of an active lava flow field using a multitemporal LIDAR acquisition. Journal of Geophysical Research, 2010, 115, .	3.3	92
18	Spatial vent opening probability map of Etna volcano (Sicily, Italy). Bulletin of Volcanology, 2012, 74, 2083-2094.	1.1	84

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19	Volumetric observations during paroxysmal eruptions at Mount Etna: pressurized drainage of a shallow chamber or pulsed supply?. Journal of Volcanology and Geothermal Research, 2002, 116, 79-95.	0.8	83
20	Monitoring the December 2015 summit eruptions of Mt. Etna (Italy): Implications on eruptive dynamics. Journal of Volcanology and Geothermal Research, 2017, 341, 53-69.	0.8	83
21	Continuous soil radon monitoring during the July 2006 Etna eruption. Geophysical Research Letters, 2006, 33, .	1.5	82
22	Measurements of ²²⁰Rn and ²²²Rn and CO₂ emissions in soil and fumarole gases on Mt. Etna volcano (Italy): Implications for gas transport and shallow ground fracture. Geochemistry, Geophysics, Geosystems, 2007, 8, .	1.0	82
23	The changing face of Mount Etna's summit area documented with Lidar technology. Geophysical Research Letters, 2008, 35, .	1.5	79
24	High spatial resolution radon measurements reveal hidden active faults on Mt. Etna. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	78
25	Actively growing anticlines beneath catania from the distal motion of Mount Etna's Decollement measured by SAR interferometry and GPS. Geophysical Research Letters, 2000, 27, 3409-3412.	1.5	77
26	Near-real-time forecasting of lava flow hazards during the 12-13 January 2011 Etna eruption. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	77
27	DInSAR Analysis and Analytical Modeling of Mount Etna Displacements: The December 2018 Volcanoâ€Tectonic Crisis. Geophysical Research Letters, 2019, 46, 5817-5827.	1.5	73
28	The 2004â€“2005 Etna eruption: Implications for flank deformation and structural behaviour of the volcano. Journal of Volcanology and Geothermal Research, 2006, 158, 195-206.	0.8	72
29	Structural features of an active strike-slip fault on the sliding flank of Mt. Etna (Italy). Journal of Structural Geology, 2005, 27, 343-355.	1.0	68
30	Pyroclastic density currents resulting from the interaction of basaltic magma with hydrothermally altered rock: an example from the 2006 summit eruptions of Mount Etna, Italy. Bulletin of Volcanology, 2008, 70, 1249-1268.	1.1	67
31	Flank instability on Mount Etna: Radon, radar interferometry, and geodetic data from the southwestern boundary of the unstable sector. Journal of Geophysical Research, 2007, 112, .	3.3	62
32	Nested zones of instability in the Mount Etna volcanic edifice, Italy. Journal of Volcanology and Geothermal Research, 2005, 144, 137-153.	0.8	61
33	Lava flow hazards at Mount Etna: constraints imposed by eruptive history and numerical simulations. Scientific Reports, 2013, 3, 3493.	1.6	61
34	Spatial probability distribution of future volcanic eruptions at El Hierro Island (Canary Islands,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 142	0.8	60
35	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
36	Understanding shallow magma emplacement at volcanoes: Orthogonal feeder dikes during the 2002â€“2003 Stromboli (Italy) eruption. Geophysical Research Letters, 2006, 33, .	1.5	56

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37	Paroxysmal summit activity at Mt. Etna (Italy) monitored through continuous soil radon measurements. Geophysical Research Letters, 2005, 32, .	1.5	55
38	Structural features of the Julyâ€“August 2001 Mount Etna eruption: evidence for a complex magma supply system. Journal of the Geological Society, 2003, 160, 531-544.	0.9	54
39	Paleo-environmental and volcano-tectonic evolution of the southeastern flank of Mt. Etna during the last 225 ka inferred from the volcanic succession of the â€˜Timpeâ€™, Acireale, Sicily. Journal of Volcanology and Geothermal Research, 2002, 113, 289-306.	0.8	52
40	Predicting the impact of lava flows at Mount Etna, Italy. Journal of Geophysical Research, 2010, 115, .	3.3	52
41	Comparison between different methodologies for detecting radon in soil along an active fault: The case of the Pernicana fault system, Mt. Etna (Italy). Applied Radiation and Isotopes, 2009, 67, 178-185.	0.7	51
42	Spatial distribution of soil radon as a tool to recognize active faulting on an active volcano: the example of Mt. Etna (Italy). Journal of Environmental Radioactivity, 2011, 102, 863-870.	0.9	51
43	The boundaries of large-scale collapse on the flanks of Mount Etna, Sicily. Geological Society Special Publication, 1996, 110, 193-208.	0.8	50
44	Lava flow hazard at Mount Etna (Italy): New data from a GIS-based study. , 2005, , .		50
45	Simultaneous magma and gas eruptions at three volcanoes in southern Italy: An earthquake trigger?. Geology, 2009, 37, 251-254.	2.0	50
46	Major eruptive style changes induced by structural modifications of a shallow conduit system: the 2007â€“2012 Stromboli case. Bulletin of Volcanology, 2014, 76, 1.	1.1	50
47	Soil radon measurements as a potential tracer of tectonic and volcanic activity. Scientific Reports, 2016, 6, 24581.	1.6	50
48	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
49	Probabilistic modeling of future volcanic eruptions at Mount Etna. Journal of Geophysical Research: Solid Earth, 2013, 118, 1925-1935.	1.4	48
50	Insights into fluid circulation across the Pernicana Fault (Mt. Etna, Italy) and implications for flank instability. Journal of Volcanology and Geothermal Research, 2010, 193, 137-142.	0.8	45
51	Mechanisms for ground-surface fracturing and incipient slope failure associated with the 2001 eruption of Mt. Etna, Italy: analysis of ephemeral field data. Journal of Volcanology and Geothermal Research, 2003, 122, 281-294.	0.8	43
52	Structural features of the 2007 Stromboli eruption. Journal of Volcanology and Geothermal Research, 2009, 182, 137-144.	0.8	43
53	A Multi-Channel Algorithm for Mapping Volcanic Thermal Anomalies by Means of Sentinel-2 MSI and Landsat-8 OLI Data. Remote Sensing, 2019, 11, 2876.	1.8	42
54	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

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55	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
56	Topographic Maps of Mount Etnaâ€™s Summit Craters, updated to December 2015. Journal of Maps, 2017, 13, 674-683.	1.0	39
57	Lidar surveys reveal eruptive volumes and rates at Etna, 2007â€“2010. Geophysical Research Letters, 2016, 43, 4270-4278.	1.5	38
58	Dyke emplacement and related hazard in volcanoes with sector collapse: the 2007 Stromboli (Italy) eruption. Journal of the Geological Society, 2008, 165, 883-886.	0.9	37
59	Detachment depth revealed by rollover deformation: An integrated approach at Mount Etna. Geophysical Research Letters, 2010, 37, .	1.5	37
60	Pyroclastic density current volume estimation after the 2010 Merapi volcano eruption using X-band SAR. Journal of Volcanology and Geothermal Research, 2013, 261, 236-243.	0.8	37
61	Structural analysis of the eruptive fissures at Mount Etna (Italy). Annals of Geophysics, 2011, 54, .	0.5	37
62	Spectral properties of volcanic materials from hyperspectral field and satellite data compared with LiDAR data at Mt. Etna. International Journal of Applied Earth Observation and Geoinformation, 2009, 11, 142-155.	1.4	36
63	Detecting short-term evolution of Etnean scoria cones: a LIDAR-based approach. Bulletin of Volcanology, 2010, 72, 1209-1222.	1.1	36
64	The VEI 2 Christmas 2018 Etna Eruption: A Small But Intense Eruptive Event or the Starting Phase of a Larger One?. Remote Sensing, 2020, 12, 905.	1.8	36
65	Flank instability structure of Mt. Etna inferred by a magnetotelluric survey. Journal of Geophysical Research, 2012, 117, .	3.3	35
66	Active upper crust deformation pattern along the southern edge of the Tyrrhenian subduction zone (NE Sicily): Insights from a multidisciplinary approach. Tectonophysics, 2015, 657, 205-218.	0.9	35
67	An exceptional case of endogenous lava dome growth spawning pyroclastic avalanches: the 1999 Bocca Nuova eruption of Mt. Etna (Italy). Journal of Volcanology and Geothermal Research, 2003, 124, 115-128.	0.8	33
68	The growth and erosion of cinder cones in Guatemala and El Salvador: Models and statistics. Journal of Volcanology and Geothermal Research, 2011, 201, 39-52.	0.8	29
69	Seismoâ€tectonic behavior of the Pernicana Fault System (Mt Etna): A gauge for volcano flank instability?. Journal of Geophysical Research: Solid Earth, 2013, 118, 4398-4409.	1.4	29
70	Dynamic feeder dyke systems in basaltic volcanoes: the exceptional example of the 1809 Etna eruption (Italy). Frontiers in Earth Science, 2014, 2, .	0.8	29
71	The July/August 2019 Lava Flows at the Sciara del Fuoco, Stromboliâ€“Analysis from Multi-Sensor Infrared Satellite Imagery. Remote Sensing, 2019, 11, 2879.	1.8	29
72	Fissure eruptions at Mount Vesuvius (Italy): Insights on the shallow propagation of dikes at volcanoes. Geology, 2006, 34, 673.	2.0	27

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73	How do volcanic rift zones relate to flank instability? Evidence from collapsing rifts at Etna. Geophysical Research Letters, 2012, 39, .	1.5	27
74	A method for multi-hazard mapping in poorly known volcanic areas: an example from Kanlaon (Philippines). Natural Hazards and Earth System Sciences, 2013, 13, 1929-1943.	1.5	27
75	The Contribution of Multi-Sensor Infrared Satellite Observations to Monitor Mt. Etna (Italy) Activity during May to August 2016. Remote Sensing, 2018, 10, 1948.	1.8	26
76	LiDAR-based digital terrain analysis of an area exposed to the risk of lava flow invasion: the Zafferana Etnea territory, Mt. Etna (Italy). Natural Hazards, 2009, 50, 321-334.	1.6	23
77	Effects of the 1989 fracture system in the dynamics of the upper SE flank of Etna revealed by volcanic tremor data: The missing link?. Journal of Geophysical Research, 2010, 115, .	3.3	21
78	Lava flow hazardsâ€"An impending threat at Miyakejima volcano, Japan. Journal of Volcanology and Geothermal Research, 2015, 308, 1-9.	0.8	21
79	Dike propagation within active central volcanic edifices: constraints from Somma-Vesuvius, Etna and analogue models. Bulletin of Volcanology, 2009, 71, 219-223.	1.1	20
80	Dike emplacement and flank instability at Mount Etna: Constraints from a poro-elastic-model of flank collapse. Journal of Volcanology and Geothermal Research, 2011, 199, 153-164.	0.8	20
81	Etnean and Hyblean volcanism shifted away from the Malta Escarpment by crustal stresses. Earth and Planetary Science Letters, 2018, 486, 15-22.	1.8	20
82	Active tectonic features and structural dynamics of the summit area of Mt. Etna (Italy) revealed by soil CO2 and soil temperature surveying. Journal of Volcanology and Geothermal Research, 2016, 311, 79-98.	0.8	19
83	Seismic footprints of shallow dyke propagation at Etna, Italy. Scientific Reports, 2015, 5, 11908.	1.6	18
84	Propagation of dikes at Vesuvio (Italy) and the effect of Mt. Somma. Geophysical Research Letters, 2006, 33, .	1.5	17
85	An overview of experimental models to understand a complex volcanic instability: Application to Mount Etna, Italy. Journal of Volcanology and Geothermal Research, 2013, 251, 98-111.	0.8	17
86	Mt. Etna Paroxysms of Februaryâ€"April 2021 Monitored and Quantified through a Multi-Platform Satellite Observing System. Remote Sensing, 2021, 13, 3074.	1.8	17
87	Interpretation of data from the monitoring thermal camera of Stromboli volcano (Aeolian Islands,) Tj ETQq1 1 0.784314 rgBT /Overlock	0.9	16
88	Multivariate time series clustering on geophysical data recorded at Mt. Etna from 1996 to 2003. Journal of Volcanology and Geothermal Research, 2013, 251, 65-74.	0.8	16
89	Lava flows of Mt Etna, Italy: the 2019 eruption within the context of the last two decades (1999â€"2019). Journal of Maps, 2021, 17, 65-76.	1.0	16
90	Multidisciplinary study of flank instability phenomena at Stromboli volcano, Italy. Geophysical Research Letters, 2006, 33, .	1.5	15

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91	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
92	â€œFailedâ€•eruptions revealed by pattern classification analysis of gas emission and volcanic tremor data at Mt. Etna, Italy. International Journal of Earth Sciences, 2014, 103, 297-313.	0.9	14
93	Preliminary Indoor Radon Measurements Near Faults Crossing Urban Areas of Mt. Etna Volcano (Italy). Frontiers in Public Health, 2019, 7, 105.	1.3	14
94	Evidence for a recent change in the shallow plumbing system of Mt. Etna (Italy): Gas geochemistry and structural data during 2001â€“2005. Journal of Volcanology and Geothermal Research, 2013, 251, 90-97.	0.8	12
95	Rapid morphological changes at the summit of an active volcano: reappraisal of the poorly documented 1964 eruption of Mount Etna (Italy). Geomorphology, 2004, 63, 203-218.	1.1	11
96	What happens to inâ€soil <scp>R</scp>adon activity during a longâ€lasting eruption? Insights from <scp>E</scp>tna by multidisciplinary data analysis. Geochemistry, Geophysics, Geosystems, 2017, 18, 2162-2176.	1.0	11
97	Sliding episodes during the 2002â€“2003 Stromboli lava effusion: Insights from seismic, volcanic, and statistical data analysis. Geochemistry, Geophysics, Geosystems, 2008, 9, .	1.0	10
98	Structural features of Panarea volcano in the frame of the Aeolian Arc (Italy): Implications for the 2002â€“2003 unrest. Journal of Geodynamics, 2009, 47, 288-292.	0.7	10
99	Construction and degradation of a broad volcanic massif: The VicuÃ±a Pampa volcanic complex, southern Central Andes, NW Argentina. Bulletin of the Geological Society of America, 2017, 129, 750-766.	1.6	7
100	In soil radon anomalies and volcanic activity on Mt. Etna (Italy). Journal of Environmental Radioactivity, 2020, 218, 106267.	0.9	7
101	Mapping and evaluating kinematics and the stress and strain field at active faults and fissures: a comparison between field and drone data at the NE rift, Mt Etna (Italy). Solid Earth, 2021, 12, 801-816.	1.2	7
102	Implementation of Robust Satellite Techniques for Volcanoes on ASTER Data under the Google Earth Engine Platform. Applied Sciences (Switzerland), 2021, 11, 4201.	1.3	6
103	Understanding the origin of magmatic necks: insights from Mt. Etna volcano (Italy) and analogue models. Bulletin of Volcanology, 2019, 81, 1.	1.1	5
104	A New Way to Explore Volcanic Areas: QR-Code-Based Virtual Geotrail at Mt. Etna Volcano, Italy. Land, 2022, 11, 377.	1.2	5
105	Surface deformation during the 1928 fissure eruption of Mt. Etna (Italy): Insights from field data and FEM numerical modelling. Tectonophysics, 2022, 837, 229468.	0.9	5
106	Radionuclide measurements, via different methodologies, as tool for geophysical studies on Mt. Etna. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 652, 911-914.	0.7	4
107	FIERCE: FInding volcanic ERuptive CEnters by a grid-searching algorithm in R. Bulletin of Volcanology, 2017, 79, 1.	1.1	4
108	Remarkable variability in dyke features at the VicuÃ±a Pampa Volcanic Complex, Southern Central Andes. Terra Nova, 2017, 29, 224-232.	0.9	3

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109	Defining high-detail hazard maps by a cellular automata approach: application to Mount Etna (Italy). Annals of Geophysics, 2011, 54, .	0.5	3
110	Eruptions and Social Media: Communication and Public Outreach About Volcanoes and Volcanic Activity in Italy. Frontiers in Earth Science, 0, 10, .	0.8	0