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 New Way to Explore Volcanic Areas: QR-Code-Based Virtual Geotrail at Mt. Etna Volcano, Italy. Land, 2022, 11, 377.	1.2	5
2	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
3	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
4	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
5	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
6	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
7	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
8	In soil radon anomalies and volcanic activity on Mt. Etna (Italy). Journal of Environmental Radioactivity, 2020, 218, 106267.	0.9	7
9	Understanding the origin of magmatic necks: insights from Mt. Etna volcano (Italy) and analogue models. Bulletin of Volcanology, 2019, 81, 1.	1.1	5
10	Preliminary Indoor Radon Measurements Near Faults Crossing Urban Areas of Mt. Etna Volcano (Italy). Frontiers in Public Health, 2019, 7, 105.	1.3	14
11	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
12	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
13	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
14	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
15	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
16	FIERCE: FInding volcanic ERuptive CEnters by a grid-searching algorithm in R. Bulletin of Volcanology, 2017, 79, 1.	1.1	4
17	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
18	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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19	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
20	Topographic Maps of Mount Etnaâ€™s Summit Craters, updated to December 2015. Journal of Maps, 2017, 13, 674-683.	1.0	39
21	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
22	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
23	Soil radon measurements as a potential tracer of tectonic and volcanic activity. Scientific Reports, 2016, 6, 24581.	1.6	50
24	Lidar surveys reveal eruptive volumes and rates at Etna, 2007â€“2010. Geophysical Research Letters, 2016, 43, 4270-4278.	1.5	38
25	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
26	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
27	Seismic footprints of shallow dyke propagation at Etna, Italy. Scientific Reports, 2015, 5, 11908.	1.6	18
28	Lava flow hazardsâ€”An impending threat at Miyakejima volcano, Japan. Journal of Volcanology and Geothermal Research, 2015, 308, 1-9.	0.8	21
29	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
30	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
31	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
32	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
33	Spatial probability distribution of future volcanic eruptions at El Hierro Island (Canary Islands,) Tj ETQq1 1 0.784314 rgBT /Overlock 1	0.8	60
34	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
35	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
36	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

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37	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
38	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
39	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
40	Lava flow hazards at Mount Etna: constraints imposed by eruptive history and numerical simulations. Scientific Reports, 2013, 3, 3493.	1.6	61
41	Probabilistic modeling of future volcanic eruptions at Mount Etna. Journal of Geophysical Research: Solid Earth, 2013, 118, 1925-1935.	1.4	48
42	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
43	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
44	How do volcanic rift zones relate to flank instability? Evidence from collapsing rifts at Etna. Geophysical Research Letters, 2012, 39, .	1.5	27
45	Spatial vent opening probability map of Etna volcano (Sicily, Italy). Bulletin of Volcanology, 2012, 74, 2083-2094.	1.1	84
46	Flank instability structure of Mt. Etna inferred by a magnetotelluric survey. Journal of Geophysical Research, 2012, 117, .	3.3	35
47	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
48	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
49	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
50	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
51	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
52	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
53	Structural analysis of the eruptive fissures at Mount Etna (Italy). Annals of Geophysics, 2011, 54, .	0.5	37
54	Defining high-detail hazard maps by a cellular automata approach: application to Mount Etna (Italy). Annals of Geophysics, 2011, 54, .	0.5	3

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55	Detecting short-term evolution of Etnean scoria cones: a LIDAR-based approach. Bulletin of Volcanology, 2010, 72, 1209-1222.	1.1	36
56	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
57	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
58	Predicting the impact of lava flows at Mount Etna, Italy. Journal of Geophysical Research, 2010, 115, .	3.3	52
59	Detachment depth revealed by rollover deformation: An integrated approach at Mount Etna. Geophysical Research Letters, 2010, 37, .	1.5	37
60	Evolution of an active lava flow field using a multitemporal LIDAR acquisition. Journal of Geophysical Research, 2010, 115, .	3.3	92
61	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
62	Interpretation of data from the monitoring thermal camera of Stromboli volcano (Aeolian Islands,) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	0.9	16
63	Structural features of the 2007 Stromboli eruption. Journal of Volcanology and Geothermal Research, 2009, 182, 137-144.	0.8	43
64	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
65	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
66	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
67	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
68	Dike propagation in volcanic edifices: Overview and possible developments. Tectonophysics, 2009, 471, 67-77.	0.9	144
69	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
70	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
71	Deformation and eruptions at Mt. Etna (Italy): A lesson from 15 years of observations. Geophysical Research Letters, 2009, 36, .	1.5	96
72	Simultaneous magma and gas eruptions at three volcanoes in southern Italy: An earthquake trigger?. Geology, 2009, 37, 251-254.	2.0	50

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73	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
74	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
75	The changing face of Mount Etna's summit area documented with Lidar technology. Geophysical Research Letters, 2008, 35, .	1.5	79
76	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
77	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
78	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
79	Fissure eruptions at Mount Vesuvius (Italy): Insights on the shallow propagation of dikes at volcanoes. Geology, 2006, 34, 673.	2.0	27
80	Propagation of dikes at Vesuvio (Italy) and the effect of Mt. Somma. Geophysical Research Letters, 2006, 33, .	1.5	17
81	Understanding shallow magma emplacement at volcanoes: Orthogonal feeder dikes during the 2002â€“2003 Stromboli (Italy) eruption. Geophysical Research Letters, 2006, 33, .	1.5	56
82	Continuous soil radon monitoring during the July 2006 Etna eruption. Geophysical Research Letters, 2006, 33, .	1.5	82
83	Multidisciplinary study of flank instability phenomena at Stromboli volcano, Italy. Geophysical Research Letters, 2006, 33, .	1.5	15
84	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
85	Mount Etna 1993â€“2005: Anatomy of an evolving eruptive cycle. Earth-Science Reviews, 2006, 78, 85-114.	4.0	235
86	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
87	Nested zones of instability in the Mount Etna volcanic edifice, Italy. Journal of Volcanology and Geothermal Research, 2005, 144, 137-153.	0.8	61
88	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
89	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
90	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

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91	Lava flow hazard at Mount Etna (Italy): New data from a GIS-based study. , 2005, , .		50
92	Etna 2004â€“2005: An archetype for geodynamically-controlled effusive eruptions. Geophysical Research Letters, 2005, 32, .	1.5	120
93	Paroxysmal summit activity at Mt. Etna (Italy) monitored through continuous soil radon measurements. Geophysical Research Letters, 2005, 32, .	1.5	55
94	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
95	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
96	High spatial resolution radon measurements reveal hidden active faults on Mt. Etna. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	78
97	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
98	The July?August 2001 eruption of Mt. Etna (Sicily). Bulletin of Volcanology, 2003, 65, 461-476.	1.1	187
99	What makes flank eruptions? The 2001 Etna eruption and its possible triggering mechanisms. Bulletin of Volcanology, 2003, 65, 517-529.	1.1	177
100	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
101	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
102	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
103	Link between major flank slip and 2002-2003 eruption at Mt. Etna (Italy). Geophysical Research Letters, 2003, 30, .	1.5	110
104	Cycles and trends in the recent eruptive behaviour of Mount Etna (Italy). Canadian Journal of Earth Sciences, 2003, 40, 1405-1411.	0.6	106
105	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
106	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
107	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
108	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

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109	The boundaries of large-scale collapse on the flanks of Mount Etna, Sicily. Geological Society Special Publication, 1996, 110, 193-208.	0.8	50
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