Massimiliano Favalli

List of Publications by Year
in descending order

52	1,788	186209 28	276775 41
papers	citations	h-index	g-index

55	55	55	1870
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Reconstruction of the 2002 tsunami at Stromboli using the non-hydrostatic WAVE model (NHWAVE). Geological Society Special Publication, 2024, 519, 107-130.	0.8	0
2	Subaerial-submarine morphological changes at Stromboli volcano (Italy) induced by the 2019â€“2020 eruptive activity. Geomorphology, 2022, 400, 108093.	1.1	12
3	Forest destruction by â€˜aâ€˜Ä•lava flow during Etna's 2002â€“03 eruption: Mechanical, thermal, and environmental interactions. Journal of Volcanology and Geothermal Research, 2022, 429, 107621.	0.8	0
4	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
5	Lava flow hazard map of Piton de la Fournaise volcano. Natural Hazards and Earth System Sciences, 2021, 21, 2355-2377.	1.5	19
6	The 1974 West Flank Eruption of Mount Etna: A Data-Driven Model for a Low Elevation Effusive Event. Frontiers in Earth Science, 2020, 8, .	0.8	2
7	Catching Geomorphological Response to Volcanic Activity on Steep Slope Volcanoes Using Multi-Platform Remote Sensing. Remote Sensing, 2020, 12, 438.	1.8	24
8	Influence of Topographic Resolution and Accuracy on Hydraulic Channel Flow Simulations: Case Study of the Versilia River (Italy). Remote Sensing, 2019, 11, 1630.	1.8	10
9	Application of an ultra-wide band sensor-free wireless network for ground monitoring. Engineering Geology, 2018, 238, 1-14.	2.9	26
10	The 2014 Effusive Eruption at Stromboli: New Insights from In Situ and Remote-Sensing Measurements. Remote Sensing, 2018, 10, 2035.	1.8	41
11	UAV-based remote sensing surveys of lava flow fields: a case study from Etnaâ€™s 1974 channel-fed lava flows. Bulletin of Volcanology, 2018, 80, 1.	1.1	51
12	Visualization and comparison of DEM-derived parameters. Application to volcanic areas. Geomorphology, 2017, 290, 69-84.	1.1	25
13	Seismic lines Offshore Mount Etna (SOME): open database. Annals of Geophysics, 2017, 60, .	0.5	1
14	Lava flow hazard at Fogo Volcano, Cabo Verde, before and after the 2014â€“2015 eruption. Natural Hazards and Earth System Sciences, 2016, 16, 1925-1951.	1.5	69
15	Simulating the area covered by lava flows using the DOWNFLOW code. Geological Society Special Publication, 2016, 426, 293-312.	0.8	7
16	Volcanic field elongation, vent distribution, and tectonic evolution of a continental rift: The Main Ethiopian Rift example. , 2016, 12, 706-720.		28
17	Lidar surveys reveal eruptive volumes and rates at Etna, 2007â€“2010. Geophysical Research Letters, 2016, 43, 4270-4278.	1.5	38
18	Crystal size distributions of plagioclase in lavas from the Julyâ€“August 2001 Mount Etna eruption. Bulletin of Volcanology, 2015, 77, 1.	1.1	16

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19	Uncertainties in lava flow hazard maps derived from numerical simulations: The case study of Mount Etna. Journal of Volcanology and Geothermal Research, 2013, 260, 90-102.	0.8	17
20	Dispersion index of topographic surfaces. Geomorphology, 2012, 153-154, 169-178.	1.1	7
21	Release of a 10-m-resolution DEM for the Italian territory: Comparison with global-coverage DEMs and anaglyph-mode exploration via the web. Computers and Geosciences, 2012, 38, 168-170.	2.0	194
22	Morphometry of scoria cones, and their relation to geodynamic setting: A DEM-based analysis. Journal of Volcanology and Geothermal Research, 2012, 217-218, 56-72.	0.8	67
23	Morphometric analysis of lava flow units: Case study over LIDAR-derived topography at Mount Etna, Italy. Journal of Volcanology and Geothermal Research, 2012, 235-236, 11-22.	0.8	22
24	Lava flow hazard and risk at Mt. Cameroon volcano. Bulletin of Volcanology, 2012, 74, 423-439.	1.1	54
25	Mapping and DOWNFLOW simulation of recent lava flow fields at Mount Etna. Journal of Volcanology and Geothermal Research, 2011, 204, 27-39.	0.8	35
26	Hazard assessment at Mount Etna using a hybrid lava flow inundation model and satellite-based land classification. Natural Hazards, 2011, 58, 1001-1027.	1.6	35
27	The distal segment of Etnaâ€™s 2001 basaltic lava flow. Bulletin of Volcanology, 2010, 72, 119-127.	1.1	29
28	Detecting short-term evolution of Etnean scoria cones: a LIDAR-based approach. Bulletin of Volcanology, 2010, 72, 1209-1222.	1.1	36
29	Changes of the susceptibility to lava flow invasion induced by morphological modifications of an active volcano: the case of Mount Etna, Italy. Natural Hazards, 2010, 54, 537-546.	1.6	22
30	The regular shape of stratovolcanoes: A DEM-based morphometrical approach. Journal of Volcanology and Geothermal Research, 2010, 193, 171-181.	0.8	39
31	A microscopic information system (MIS) for petrographic analysis. Computers and Geosciences, 2010, 36, 665-674.	2.0	40
32	A relation between lava discharge rate, thermal insulation, and flow area set using lidar data. Geophysical Research Letters, 2010, 37, .	1.5	34
33	Lava flow hazard at Nyiragongo Volcano, DRC. Bulletin of Volcanology, 2009, 71, 375-387.	1.1	31
34	Lava flow hazard at Nyiragongo volcano, D.R.C.. Bulletin of Volcanology, 2009, 71, 363-374.	1.1	57
35	Construction dynamics of a lava channel. Bulletin of Volcanology, 2009, 71, 459-474.	1.1	42
36	LIDAR strip adjustment: Application to volcanic areas. Geomorphology, 2009, 111, 123-135.	1.1	61

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37	Topographic control on lava flow paths at Mount Etna, Italy: Implications for hazard assessment. Journal of Geophysical Research, 2009, 114, .	3.3	38
38	Seismic and landslide source of the 1908 Straits of Messina tsunami (Sicily, Italy). Geophysical Research Letters, 2009, 36, .	1.5	44
39	Reply to comment by Luigi Vigliotti on â€œLost tsunamiâ€• Geophysical Research Letters, 2008, 35, .	1.5	1
40	Reply to comments by E. Galili et al. on â€œHolocene tsunami's from Mount Etna and the fate of Israeli Neolithic communitiesâ€• Geophysical Research Letters, 2008, 35, .	1.5	2
41	Lava flow identification and aging by means of lidar intensity: Mount Etna case. Journal of Geophysical Research, 2007, 112, .	3.3	58
42	Best-fit results from application of a thermo-rheological model for channelized lava flow to high spatial resolution morphological data. Geophysical Research Letters, 2007, 34, .	1.5	33
43	Holocene tsunamis from Mount Etna and the fate of Israeli Neolithic communities. Geophysical Research Letters, 2007, 34, .	1.5	18
44	Reply to:. Bulletin of Volcanology, 2007, 70, 117-118.	1.1	0
45	Large submarine landslides offshore Mt. Etna. Geophysical Research Letters, 2006, 33, .	1.5	39
46	Impact of the Minoan tsunami of Santorini: Simulated scenarios in the eastern Mediterranean. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	38
47	Lost tsunami. Geophysical Research Letters, 2006, 33, .	1.5	38
48	Forecasting lava flow paths by a stochastic approach. Geophysical Research Letters, 2005, 32, .	1.5	104
49	Morphology of basaltic lava channels during the Mt. Etna September 2004 eruption from airborne laser altimeter data. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	67
50	Role of local wind circulation in plume monitoring at Mt. Etna volcano (Sicily): Insights from a mesoscale numerical model. Geophysical Research Letters, 2004, 31, n/a-n/a.	1.5	24
51	Digital elevation model construction from structured topographic data: The DEST algorithm. Journal of Geophysical Research, 2004, 109, .	3.3	46
52	The DEM or Mt. Etna: geomorphological and structural implications. Geodinamica Acta, 1999, 12, 279-290.	2.2	26