

Alessandro Fornaciai

List of Publications by Year in descending order

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56
papers

1,959
citations

186209

28
h-index

254106

43
g-index

58
all docs

58
docs citations

58
times ranked

1972
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 2019–2020 eruptive activity. Geomorphology, 2022, 400, 108093.	1.1	12
3	Relative seismic and tsunami risk assessment for Stromboli Island (Italy). International Journal of Disaster Risk Reduction, 2022, 76, 103002.	1.8	5
4	Forest destruction by ––lava flow during Etna's 2002–03 eruption: Mechanical, thermal, and environmental interactions. Journal of Volcanology and Geothermal Research, 2022, 429, 107621.	0.8	0
5	The 2004–2005 Mt. 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
6	Modeling Tsunamis Generated by Submarine Landslides at Stromboli Volcano (Aeolian Islands, Italy): A Numerical Benchmark Study. Frontiers in Earth Science, 2021, 9, .	0.8	17
7	Lava flow hazard map of Piton de la Fournaise volcano. Natural Hazards and Earth System Sciences, 2021, 21, 2355-2377.	1.5	19
8	Volcanological applications of unoccupied aircraft systems (UAS): Developments, strategies, and future challenges. Volcanica, 2020, 3, 67-114.	0.6	63
9	Catching Geomorphological Response to Volcanic Activity on Steep Slope Volcanoes Using Multi-Platform Remote Sensing. Remote Sensing, 2020, 12, 438.	1.8	24
10	Validation of an integrated satellite-data-driven response to an effusive crisis: the April–May 2018 eruption of Piton de la Fournaise. Annals of Geophysics, 2019, 61, .	0.5	26
11	Application of an ultra-wide band sensor-free wireless network for ground monitoring. Engineering Geology, 2018, 238, 1-14.	2.9	26
12	The 2014 Effusive Eruption at Stromboli: New Insights from In Situ and Remote-Sensing Measurements. Remote Sensing, 2018, 10, 2035.	1.8	41
13	UAV-based remote sensing surveys of lava flow fields: a case study from Etna's 1974 channel-fed lava flows. Bulletin of Volcanology, 2018, 80, 1.	1.1	51
14	A Flexible Wireless Sensor Network Based on Ultra-Wide Band Technology for Ground Instability Monitoring. Sensors, 2018, 18, .	2.1	2
15	A Flexible Wireless Sensor Network Based on Ultra-Wide Band Technology for Ground Instability Monitoring. Sensors, 2018, 18, 2948.	2.1	21
16	Visualization and comparison of DEM-derived parameters. Application to volcanic areas. Geomorphology, 2017, 290, 69-84.	1.1	25
17	Seismic lines Offshore Mount Etna (SOME): open database. Annals of Geophysics, 2017, 60, .	0.5	1
18	Lava flow hazard at Fogo Volcano, Cabo Verde, before and after the 2014–2015 eruption. Natural Hazards and Earth System Sciences, 2016, 16, 1925-1951.	1.5	69

#	ARTICLE	IF	CITATIONS
19	Simulating the area covered by lava flows using the DOWNFLOW code. Geological Society Special Publication, 2016, 426, 293-312.	0.8	7
20	Volcanic field elongation, vent distribution, and tectonic evolution of a continental rift: The Main Ethiopian Rift example. , 2016, 12, 706-720.		28
21	Rapid Updating and Improvement of Airborne LIDAR DEMs Through Ground-Based SfM 3-D Modeling of Volcanic Features. IEEE Transactions on Geoscience and Remote Sensing, 2016, 54, 6687-6699.	2.7	19
22	Lidar surveys reveal eruptive volumes and rates at Etna, 2007â€“2010. Geophysical Research Letters, 2016, 43, 4270-4278.	1.5	38
23	Reconstructing eroded paleovolcanoes on Gran Canaria, Canary Islands, using advanced geomorphometry. Geomorphology, 2016, 253, 123-134.	1.1	18
24	Crystal size distributions of plagioclase in lavas from the Julyâ€“August 2001 Mount Etna eruption. Bulletin of Volcanology, 2015, 77, 1.	1.1	16
25	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
26	Multiview 3D reconstruction in geosciences. Computers and Geosciences, 2012, 44, 168-176.	2.0	96
27	Dispersion index of topographic surfaces. Geomorphology, 2012, 153-154, 169-178.	1.1	7
28	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
29	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
30	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
31	Lava flow hazard and risk at Mt. Cameroon volcano. Bulletin of Volcanology, 2012, 74, 423-439.	1.1	54
32	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
33	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
34	DOWNFLOW code and LIDAR technology for lava flow analysis and hazard assessment at Mount Etna. Annals of Geophysics, 2011, 54, .	0.5	10
35	The distal segment of Etnaâ€™s 2001 basaltic lava flow. Bulletin of Volcanology, 2010, 72, 119-127.	1.1	29
36	Detecting short-term evolution of Etnean scoria cones: a LIDAR-based approach. Bulletin of Volcanology, 2010, 72, 1209-1222.	1.1	36

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37	Changes of the susceptibility to lava flow invasion induced by morphological modifications of an active volcano: the case of Mount Etna, Italy. <i>Natural Hazards</i> , 2010, 54, 537-546.	1.6	22
38	The regular shape of stratovolcanoes: A DEM-based morphometrical approach. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 193, 171-181.	0.8	39
39	A microscopic information system (MIS) for petrographic analysis. <i>Computers and Geosciences</i> , 2010, 36, 665-674.	2.0	40
40	A relation between lava discharge rate, thermal insulation, and flow area set using lidar data. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	34
41	A LiDAR survey of Stromboli volcano (Italy): Digital elevation model-based geomorphology and intensity analysis. <i>International Journal of Remote Sensing</i> , 2010, 31, 3177-3194.	1.3	24
42	Lava flow hazard at Nyiragongo Volcano, DRC. <i>Bulletin of Volcanology</i> , 2009, 71, 375-387.	1.1	31
43	Lava flow hazard at Nyiragongo volcano, D.R.C.. <i>Bulletin of Volcanology</i> , 2009, 71, 363-374.	1.1	57
44	Construction dynamics of a lava channel. <i>Bulletin of Volcanology</i> , 2009, 71, 459-474.	1.1	42
45	Dissolution/crystallization kinetics recorded in the 2002-2003 lavas of Stromboli (Italy). <i>Bulletin of Volcanology</i> , 2009, 71, 631-641.	1.1	20
46	LiDAR-based digital terrain analysis of an area exposed to the risk of lava flow invasion: the Zafferana Etnea territory, Mt. Etna (Italy). <i>Natural Hazards</i> , 2009, 50, 321-334.	1.6	23
47	LIDAR strip adjustment: Application to volcanic areas. <i>Geomorphology</i> , 2009, 111, 123-135.	1.1	61
48	Topographic control on lava flow paths at Mount Etna, Italy: Implications for hazard assessment. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	38
49	A new approach to risk assessment of lava flow at Mount Etna. <i>Geology</i> , 2009, 37, 1111-1114.	2.0	41
50	The Vegetation Resilience After Fire (VRAF) index: Development, implementation and an illustration from central Italy. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2008, 10, 312-329.	1.4	32
51	Detection of Ground Control Points using the SITOGEOGIS tool to orthorectify Landsat 7 ETM + images. <i>European Journal of Remote Sensing</i> , 2008, , 55-63.	0.2	3
52	Lava flow identification and aging by means of lidar intensity: Mount Etna case. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	58
53	Best-fit results from application of a thermo-rheological model for channelized lava flow to high spatial resolution morphological data. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	33
54	Forecasting lava flow paths by a stochastic approach. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	104

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55	Morphology of basaltic lava channels during the Mt. Etna September 2004 eruption from airborne laser altimeter data. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	67
56	Digital elevation model construction from structured topographic data: The DEST algorithm. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	46