

Alessandro Fornaciai

List of Publications by Year in descending order

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Version: 2024-02-01

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	Release of a 10-m-resolution DEM for the Italian territory: Comparison with global-coverage DEMs and anaglyph-mode exploration via the web. <i>Computers and Geosciences</i> , 2012, 38, 168-170.	2.0	194
2	Forecasting lava flow paths by a stochastic approach. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	104
3	Multiview 3D reconstruction in geosciences. <i>Computers and Geosciences</i> , 2012, 44, 168-176.	2.0	96
4	Lava flow hazard at Fogo Volcano, Cabo Verde, before and after the 2014â€“2015 eruption. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 1925-1951.	1.5	69
5	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
6	Morphometry of scoria cones, and their relation to geodynamic setting: A DEM-based analysis. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 217-218, 56-72.	0.8	67
7	Volcanological applications of unoccupied aircraft systems (UAS): Developments, strategies, and future challenges. <i>Volcanica</i> , 2020, 3, 67-114.	0.6	63
8	LIDAR strip adjustment: Application to volcanic areas. <i>Geomorphology</i> , 2009, 111, 123-135.	1.1	61
9	Lava flow identification and aging by means of lidar intensity: Mount Etna case. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	58
10	Lava flow hazard at Nyiragongo volcano, D.R.C.. <i>Bulletin of Volcanology</i> , 2009, 71, 363-374.	1.1	57
11	Lava flow hazard and risk at Mt. Cameroon volcano. <i>Bulletin of Volcanology</i> , 2012, 74, 423-439.	1.1	54
12	UAV-based remote sensing surveys of lava flow fields: a case study from Etnaâ€™s 1974 channel-fed lava flows. <i>Bulletin of Volcanology</i> , 2018, 80, 1.	1.1	51
13	Digital elevation model construction from structured topographic data: The DEST algorithm. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	46
14	Construction dynamics of a lava channel. <i>Bulletin of Volcanology</i> , 2009, 71, 459-474.	1.1	42
15	A new approach to risk assessment of lava flow at Mount Etna. <i>Geology</i> , 2009, 37, 1111-1114.	2.0	41
16	The 2014 Effusive Eruption at Stromboli: New Insights from In Situ and Remote-Sensing Measurements. <i>Remote Sensing</i> , 2018, 10, 2035.	1.8	41
17	A microscopic information system (MIS) for petrographic analysis. <i>Computers and Geosciences</i> , 2010, 36, 665-674.	2.0	40
18	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

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19	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
20	Lidar surveys reveal eruptive volumes and rates at Etna, 2007â€“2010. <i>Geophysical Research Letters</i> , 2016, 43, 4270-4278.	1.5	38
21	Detecting short-term evolution of Etnean scoria cones: a LIDAR-based approach. <i>Bulletin of Volcanology</i> , 2010, 72, 1209-1222.	1.1	36
22	Mapping and DOWNFLOW simulation of recent lava flow fields at Mount Etna. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 204, 27-39.	0.8	35
23	Hazard assessment at Mount Etna using a hybrid lava flow inundation model and satellite-based land classification. <i>Natural Hazards</i> , 2011, 58, 1001-1027.	1.6	35
24	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
25	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
26	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
27	Lava flow hazard at Nyiragongo Volcano, DRC. <i>Bulletin of Volcanology</i> , 2009, 71, 375-387.	1.1	31
28	The distal segment of Etnaâ€™s 2001 basaltic lava flow. <i>Bulletin of Volcanology</i> , 2010, 72, 119-127.	1.1	29
29	Volcanic field elongation, vent distribution, and tectonic evolution of a continental rift: The Main Ethiopian Rift example. , 2016, 12, 706-720.		28
30	Application of an ultra-wide band sensor-free wireless network for ground monitoring. <i>Engineering Geology</i> , 2018, 238, 1-14.	2.9	26
31	Validation of an integrated satellite-data-driven response to an effusive crisis: the Aprilâ€“May 2018 eruption of Piton de la Fournaise. <i>Annals of Geophysics</i> , 2019, 61, .	0.5	26
32	Visualization and comparison of DEM-derived parameters. Application to volcanic areas. <i>Geomorphology</i> , 2017, 290, 69-84.	1.1	25
33	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
34	Catching Geomorphological Response to Volcanic Activity on Steep Slope Volcanoes Using Multi-Platform Remote Sensing. <i>Remote Sensing</i> , 2020, 12, 438.	1.8	24
35	LiDAR-based digital terrain analysis of an area exposed to the risk of lava flow invasion: the Zafferana Etna territory, Mt. Etna (Italy). <i>Natural Hazards</i> , 2009, 50, 321-334.	1.6	23
36	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

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37	Morphometric analysis of lava flow units: Case study over LIDAR-derived topography at Mount Etna, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 235-236, 11-22.	0.8	22
38	A Flexible Wireless Sensor Network Based on Ultra-Wide Band Technology for Ground Instability Monitoring. <i>Sensors</i> , 2018, 18, 2948.	2.1	21
39	Dissolution/crystallization kinetics recorded in the 2002–2003 lavas of Stromboli (Italy). <i>Bulletin of Volcanology</i> , 2009, 71, 631-641.	1.1	20
40	Rapid Updating and Improvement of Airborne LIDAR DEMs Through Ground-Based SfM 3-D Modeling of Volcanic Features. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2016, 54, 6687-6699.	2.7	19
41	Lava flow hazard map of Piton de la Fournaise volcano. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 2355-2377.	1.5	19
42	Reconstructing eroded paleovolcanoes on Gran Canaria, Canary Islands, using advanced geomorphometry. <i>Geomorphology</i> , 2016, 253, 123-134.	1.1	18
43	Uncertainties in lava flow hazard maps derived from numerical simulations: The case study of Mount Etna. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 260, 90-102.	0.8	17
44	Modeling Tsunamis Generated by Submarine Landslides at Stromboli Volcano (Aeolian Islands, Italy): A Numerical Benchmark Study. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	17
45	Crystal size distributions of plagioclase in lavas from the July–August 2001 Mount Etna eruption. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	1.1	16
46	Subaerial-submarine morphological changes at Stromboli volcano (Italy) induced by the 2019–2020 eruptive activity. <i>Geomorphology</i> , 2022, 400, 108093.	1.1	12
47	DOWNFLOW code and LIDAR technology for lava flow analysis and hazard assessment at Mount Etna. <i>Annals of Geophysics</i> , 2011, 54, .	0.5	10
48	The 2004–2005 Mt. Etna Compound Lava Flow Field: A Retrospective Analysis by Combining Remote and Field Methods. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020499.	1.4	8
49	Dispersion index of topographic surfaces. <i>Geomorphology</i> , 2012, 153-154, 169-178.	1.1	7
50	Simulating the area covered by lava flows using the DOWNFLOW code. <i>Geological Society Special Publication</i> , 2016, 426, 293-312.	0.8	7
51	Relative seismic and tsunami risk assessment for Stromboli Island (Italy). <i>International Journal of Disaster Risk Reduction</i> , 2022, 76, 103002.	1.8	5
52	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
53	A Flexible Wireless Sensor Network Based on Ultra-Wide Band Technology for Ground Instability Monitoring. <i>Sensors</i> , 2018, 18, .	2.1	2
54	Seismic lines Offshore Mount Etna (SOME): open database. <i>Annals of Geophysics</i> , 2017, 60, .	0.5	1

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55	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
56	Forest destruction by a 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