Annalisa Ac Cappello

List of Publications by Year
in descending order

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49 papers	1,429 citations	279701 23 h-index	345118 36 g-index
67 all docs	67 docs citations	67 times ranked	902 citing authors

#	Article	IF	Citations
1	An emergent strategy for volcano hazard assessment: From thermal satellite monitoring to lava flow modeling. Remote Sensing of Environment, 2012, 119, 197-207.	4.6	92
2	A year of lava fountaining at Etna: Volumes from SEVIRI. Geophysical Research Letters, 2012, 39, .	1.5	85
3	Spatial vent opening probability map of Etna volcano (Sicily, Italy). Bulletin of Volcanology, 2012, 74, 2083-2094.	1.1	84
4	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
5	Lava flow hazard modeling during the 2014â€“2015 Fogo eruption, Cape Verde. Journal of Geophysical Research: Solid Earth, 2016, 121, 2290-2303.	1.4	69
6	Lava flow hazards at Mount Etna: constraints imposed by eruptive history and numerical simulations. Scientific Reports, 2013, 3, 3493.	1.6	61
7	Spatial probability distribution of future volcanic eruptions at El Hierro Island (Canary Islands,) Tj ETQq1 1 0.784314 rgBT /Overlock 10	0.8	60
8	QVAST: a new Quantum GIS plugin for estimating volcanic susceptibility. Natural Hazards and Earth System Sciences, 2013, 13, 3031-3042.	1.5	60
9	Probabilistic modeling of future volcanic eruptions at Mount Etna. Journal of Geophysical Research: Solid Earth, 2013, 118, 1925-1935.	1.4	48
10	Mapping Volcanic Deposits of the 2011â€“2015 Etna Eruptive Events Using Satellite Remote Sensing. Frontiers in Earth Science, 2018, 6, .	0.8	48
11	Sensitivity analysis of the MAGFLOW Cellular Automaton model for lava flow simulation. Environmental Modelling and Software, 2012, 35, 122-131.	1.9	44
12	Numerical simulation of basaltic lava flows in the Auckland Volcanic Field, New Zealandâ€”implication for volcanic hazard assessment. Bulletin of Volcanology, 2014, 76, 1.	1.1	43
13	How the variety of satellite remote sensing data over volcanoes can assist hazard monitoring efforts: The 2011 eruption of Nabro volcano. Remote Sensing of Environment, 2020, 236, 111426.	4.6	38
14	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
15	HOTSAT: a multiplatform system for the thermal monitoring of volcanic activity using satellite data. Geological Society Special Publication, 2016, 426, 207-221.	0.8	33
16	Mapping Recent Lava Flows at Mount Etna Using Multispectral Sentinel-2 Images and Machine Learning Techniques. Remote Sensing, 2019, 11, 1916.	1.8	33
17	Emplacement conditions of the 1256 AD Al-Madinah lava flow field in Harrat Rahat, Kingdom of Saudi Arabia â€" Insights from surface morphology and lava flow simulations. Journal of Volcanology and Geothermal Research, 2016, 309, 14-30.	0.8	30
18	Quantifying lava flow hazards in response to effusive eruption. Bulletin of the Geological Society of America, 2016, 128, 752-763.	1.6	29

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19	MAGFLOW: a physics-based model for the dynamics of lava-flow emplacement. Geological Society Special Publication, 2016, 426, 357-373.	0.8	29
20	Overflows and Pyroclastic Density Currents in March-April 2020 at Stromboli Volcano Detected by Remote Sensing and Seismic Monitoring Data. Remote Sensing, 2020, 12, 3010.	1.8	29
21	Living at the edge of an active volcano: Risk from lava flows on Mt. Etna. Bulletin of the Geological Society of America, 2020, 132, 1615-1625.	1.6	26
22	Exploring lavaâ€flow hazards at Pico Island, Azores Archipelago (Portugal). Terra Nova, 2015, 27, 156-161.	0.9	25
23	Influence of topographic data uncertainties and model resolution on the numerical simulation of lava flows. Environmental Modelling and Software, 2019, 112, 1-15.	1.9	25
24	Impact of effusive eruptions from the Eguasâ€“CarvÃ£o fissure system, SÃ£o Miguel Island, Azores Archipelago (Portugal). Journal of Volcanology and Geothermal Research, 2015, 291, 1-13.	0.8	21
25	Lava flow hazardsâ€”An impending threat at Miyakejima volcano, Japan. Journal of Volcanology and Geothermal Research, 2015, 308, 1-9.	0.8	21
26	Satellite-driven modeling approach for monitoring lava flow hazards during the 2017 Etna eruption. Annals of Geophysics, 2018, 61, .	0.5	21
27	GPUSPH: a Smoothed Particle Hydrodynamics model for the thermal and rheological evolution of lava flows. Geological Society Special Publication, 2016, 426, 387-408.	0.8	18
28	Forest Fire Spreading Using Free and Open-Source GIS Technologies. Geomatics, 2021, 1, 50-64.	1.0	18
29	3D Lava flow mapping of the 17â€“25 May 2016 Etna eruption using tri-stereo optical satellite data. Annals of Geophysics, 2018, 61, .	0.5	18
30	Role of Emissivity in Lava Flow â€˜Distance-to-Runâ€™ Estimates from Satellite-Based Volcano Monitoring. Remote Sensing, 2019, 11, 662.	1.8	17
31	Changing Eruptive Styles at the South-East Crater of Mount Etna: Implications for Assessing Lava Flow Hazards. Frontiers in Earth Science, 2019, 7, .	0.8	17
32	Combining Radar and Optical Satellite Imagery with Machine Learning to Map Lava Flows at Mount Etna and Fogo Island. Energies, 2021, 14, 197.	1.6	17
33	LAV@HAZARD: a web-GIS interface for volcanic hazard assessment. Annals of Geophysics, 2011, 54, .	0.5	16
34	Semi-implicit 3D SPH on GPU for lava flows. Journal of Computational Physics, 2018, 375, 854-870.	1.9	14
35	Recognizing Eruptions of Mount Etna through Machine Learning Using Multiperspective Infrared Images. Remote Sensing, 2020, 12, 970.	1.8	14
36	Satellite-Based Reconstruction of the Volcanic Deposits during the December 2015 Etna Eruption. Data, 2019, 4, 120.	1.2	13

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37	Retrospective validation of a lava-flow hazard map for Mount Etna volcano. Annals of Geophysics, 2011, 54, .	0.5	12
38	Smart Decision Support Systems for Volcanic Applications. Energies, 2019, 12, 1216.	1.6	10
39	Spaceborne EO and a Combination of Inverse and Forward Modelling for Monitoring Lava Flow Advance. Remote Sensing, 2019, 11, 3032.	1.8	9
40	Effusion Rates on Mt. Etna and Their Influence on Lava Flow Hazard Assessment. Remote Sensing, 2022, 14, 1366.	1.8	9
41	Testing a geographical information system for damage and evacuation assessment during an effusive volcanic crisis. Geological Society Special Publication, 2016, 426, 649-672.	0.8	7
42	Modeling of Geophysical Flows through GPUFLOW. Applied Sciences (Switzerland), 2022, 12, 4395.	1.3	6
43	Preliminary validation of lava benchmark tests on the GPUSPH particle engine. Annals of Geophysics, 2018, 61, .	0.5	5
44	The Impact of Dynamic Emissivityâ€“Temperature Trends on Spaceborne Data: Applications to the 2001 Mount Etna Eruption. Remote Sensing, 2022, 14, 1641.	1.8	5
45	A particle swarm optimizationâ€“based heuristic to optimize the configuration of artificial barriers for the mitigation of lava flow risk. Environmental Modelling and Software, 2021, 139, 105023.	1.9	4
46	3D lava flow mapping in volcanic areas using multispectral and stereo optical satellite data. AIP Conference Proceedings, 2020, , .	0.3	4
47	Volcanic Hazard Monitoring Using Multi-Source Satellite Imagery. , 2021, , .		2
48	Simulating Complex Fluids with Smoothed Particle Hydrodynamics. Annals of Geophysics, 2017, 60, .	0.5	2
49	Improving cloud detection with imperfect satellite images using an artificial neural network approach. , 2019, , .		0