

Gaetana Ganci

List of Publications by Year in descending order

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Version: 2024-02-01

60
papers

1,603
citations

218592

26
h-index

315616

38
g-index

79
all docs

79
docs citations

79
times ranked

1087
citing authors

#	ARTICLE	IF	CITATIONS
1	The initial phases of the 2008–2009 Mount Etna eruption: A multidisciplinary approach for hazard assessment. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	93
2	An emergent strategy for volcano hazard assessment: From thermal satellite monitoring to lava flow modeling. <i>Remote Sensing of Environment</i> , 2012, 119, 197-207.	4.6	92
3	A year of lava fountaining at Etna: Volumes from SEVIRI. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	85
4	Near-real-time forecasting of lava flow hazards during the 12-13 January 2011 Etna eruption. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	77
5	Lava flow hazard modeling during the 2014–2015 Fogo eruption, Cape Verde. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 2290-2303.	1.4	69
6	Lava flow hazards at Mount Etna: constraints imposed by eruptive history and numerical simulations. <i>Scientific Reports</i> , 2013, 3, 3493.	1.6	61
7	Modelling of ground deformation and gravity fields using finite element method: an application to Etna volcano. <i>Geophysical Journal International</i> , 2007, 169, 775-786.	1.0	57
8	Dynamics of a lava fountain revealed by geophysical, geochemical and thermal satellite measurements: The case of the 10 April 2011 Mt Etna eruption. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	51
9	Mapping Volcanic Deposits of the 2011–2015 Etna Eruptive Events Using Satellite Remote Sensing. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	48
10	Numerical simulation of basaltic lava flows in the Auckland Volcanic Field, New Zealand—implication for volcanic hazard assessment. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	1.1	43
11	Why Does a Mature Volcano Need New Vents? The Case of the New Southeast Crater at Etna. <i>Frontiers in Earth Science</i> , 2016, 4, .	0.8	41
12	Lidar surveys reveal eruptive volumes and rates at Etna, 2007–2010. <i>Geophysical Research Letters</i> , 2016, 43, 4270-4278.	1.5	38
13	How the variety of satellite remote sensing data over volcanoes can assist hazard monitoring efforts: The 2011 eruption of Nabro volcano. <i>Remote Sensing of Environment</i> , 2020, 236, 111426.	4.6	38
14	Thermal insights into the dynamics of Nyiragongo lava lake from ground and satellite measurements. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 5771-5784.	1.4	36
15	The VEI 2 Christmas 2018 Etna Eruption: A Small But Intense Eruptive Event or the Starting Phase of a Larger One?. <i>Remote Sensing</i> , 2020, 12, 905.	1.8	36
16	Attenuation of body waves in Southeastern Sicily (Italy). <i>Physics of the Earth and Planetary Interiors</i> , 2003, 135, 267-279.	0.7	33
17	HOTSAT: a multiplatform system for the thermal monitoring of volcanic activity using satellite data. <i>Geological Society Special Publication</i> , 2016, 426, 207-221.	0.8	33
18	Mapping Recent Lava Flows at Mount Etna Using Multispectral Sentinel-2 Images and Machine Learning Techniques. <i>Remote Sensing</i> , 2019, 11, 1916.	1.8	33

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19	From source to surface: dynamics of Etna's lava fountains investigated by continuous strain, magnetic, ground and satellite thermal data. <i>Bulletin of Volcanology</i> , 2013, 75, 1.	1.1	32
20	Static stress changes induced by the magmatic intrusions during the 2002-2003 Etna eruption. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	30
21	Separating the thermal fingerprints of lava flows and simultaneous lava fountaining using ground-based thermal camera and SEVIRI measurements. <i>Geophysical Research Letters</i> , 2013, 40, 5058-5063.	1.5	30
22	Emplacement conditions of the 1256 AD Al-Madinah lava flow field in Harrat Rahat, Kingdom of Saudi Arabia - Insights from surface morphology and lava flow simulations. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 309, 14-30.	0.8	30
23	The HOTSAT volcano monitoring system based on combined use of SEVIRI and MODIS multispectral data. <i>Annals of Geophysics</i> , 2011, 54, .	0.5	30
24	A texton-based cloud detection algorithm for MSG-SEVIRI multispectral images. <i>Geomatics, Natural Hazards and Risk</i> , 2011, 2, 279-290.	2.0	29
25	Quantifying Effusion Rates at Active Volcanoes through Integrated Time-Lapse Laser Scanning and Photography. <i>Remote Sensing</i> , 2015, 7, 14967-14987.	1.8	29
26	Quantifying lava flow hazards in response to effusive eruption. <i>Bulletin of the Geological Society of America</i> , 2016, 128, 752-763.	1.6	29
27	MAGFLOW: a physics-based model for the dynamics of lava-flow emplacement. <i>Geological Society Special Publication</i> , 2016, 426, 357-373.	0.8	29
28	Overflows and Pyroclastic Density Currents in March-April 2020 at Stromboli Volcano Detected by Remote Sensing and Seismic Monitoring Data. <i>Remote Sensing</i> , 2020, 12, 3010.	1.8	29
29	Living at the edge of an active volcano: Risk from lava flows on Mt. Etna. <i>Bulletin of the Geological Society of America</i> , 2020, 132, 1615-1625.	1.6	26
30	3D numerical deformation model of the intrusive event forerunning the 2001 Etna eruption. <i>Physics of the Earth and Planetary Interiors</i> , 2008, 168, 88-96.	0.7	24
31	Anatomy of a Paroxysmal Lava Fountain at Etna Volcano: The Case of the 12 March 2021, Episode. <i>Remote Sensing</i> , 2021, 13, 3052.	1.8	23
32	Satellite-driven modeling approach for monitoring lava flow hazards during the 2017 Etna eruption. <i>Annals of Geophysics</i> , 2018, 61, .	0.5	21
33	GPUSPH: a Smoothed Particle Hydrodynamics model for the thermal and rheological evolution of lava flows. <i>Geological Society Special Publication</i> , 2016, 426, 387-408.	0.8	18
34	3D Lava flow mapping of the 17-25 May 2016 Etna eruption using tri-stereo optical satellite data. <i>Annals of Geophysics</i> , 2018, 61, .	0.5	18
35	Changing Eruptive Styles at the South-East Crater of Mount Etna: Implications for Assessing Lava Flow Hazards. <i>Frontiers in Earth Science</i> , 2019, 7, .	0.8	17
36	LAV@HAZARD: a web-GIS interface for volcanic hazard assessment. <i>Annals of Geophysics</i> , 2011, 54, .	0.5	16

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37	Satellite and Ground Remote Sensing Techniques to Trace the Hidden Growth of a Lava Flow Field: The 2014–2015 Effusive Eruption at Fogo Volcano (Cape Verde). <i>Remote Sensing</i> , 2018, 10, 1115.	1.8	15
38	Semi-implicit 3D SPH on GPU for lava flows. <i>Journal of Computational Physics</i> , 2018, 375, 854-870.	1.9	14
39	Recognizing Eruptions of Mount Etna through Machine Learning Using Multiperspective Infrared Images. <i>Remote Sensing</i> , 2020, 12, 970.	1.8	14
40	Satellite-Based Reconstruction of the Volcanic Deposits during the December 2015 Etna Eruption. <i>Data</i> , 2019, 4, 120.	1.2	13
41	Conclusion: recommendations and findings of the RED SEED working group. <i>Geological Society Special Publication</i> , 2016, 426, 567-648.	0.8	12
42	Smart Decision Support Systems for Volcanic Applications. <i>Energies</i> , 2019, 12, 1216.	1.6	10
43	Spaceborne EO and a Combination of Inverse and Forward Modelling for Monitoring Lava Flow Advance. <i>Remote Sensing</i> , 2019, 11, 3032.	1.8	9
44	Effusion Rates on Mt. Etna and Their Influence on Lava Flow Hazard Assessment. <i>Remote Sensing</i> , 2022, 14, 1366.	1.8	9
45	A high sensitivity conditioning circuit for capacitive sensors including stray effects compensation and dummy sensors approach. , 0, , .		8
46	Testing a geographical information system for damage and evacuation assessment during an effusive volcanic crisis. <i>Geological Society Special Publication</i> , 2016, 426, 649-672.	0.8	7
47	The 2019 Eruptive Activity at Stromboli Volcano: A Multidisciplinary Approach to Reveal Hidden Features of the “Unexpected” 3 July Paroxysm. <i>Remote Sensing</i> , 2021, 13, 4064.	1.8	7
48	Optimizing Satellite Monitoring of Volcanic Areas Through GPUs and Multi-Core CPUs Image Processing: An OpenCL Case Study. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2013, 6, 2445-2452.	2.3	6
49	Modeling of Geophysical Flows through GPUFLOW. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4395.	1.3	6
50	Preliminary validation of lava benchmark tests on the GPUSPH particle engine. <i>Annals of Geophysics</i> , 2018, 61, .	0.5	5
51	The Impact of Dynamic Emissivity–Temperature Trends on Spaceborne Data: Applications to the 2001 Mount Etna Eruption. <i>Remote Sensing</i> , 2022, 14, 1641.	1.8	5
52	Changes in the Eruptive Style of Stromboli Volcano before the 2019 Paroxysmal Phase Discovered through SOM Clustering of Seismo-Acoustic Features Compared with Camera Images and GBInSAR Data. <i>Remote Sensing</i> , 2022, 14, 1287.	1.8	5
53	A particle swarm optimization–based heuristic to optimize the configuration of artificial barriers for the mitigation of lava flow risk. <i>Environmental Modelling and Software</i> , 2021, 139, 105023.	1.9	4
54	3D lava flow mapping in volcanic areas using multispectral and stereo optical satellite data. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	4

#	ARTICLE	IF	CITATIONS
55	Cloud Photogrammetry from Space. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XL-7/W3, 247-254.	0.2	3
56	Hot spot detection and effusion rate estimation using satellite data to drive lava flow simulations. , 2008, , .		2
57	Volcanic Hazard Monitoring Using Multi-Source Satellite Imagery. , 2021, , .		2
58	A bio-inspired auditory perception model for amplitude-frequency clustering (keynote Paper). , 2005, , .		2
59	Simulating Complex Fluids with Smoothed Particle Hydrodynamics. Annals of Geophysics, 2017, 60, .	0.5	2
60	Improving cloud detection with imperfect satellite images using an artificial neural network approach. , 2019, , .		0