

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 Impact of Dynamic Emissivityâ€™Temperature Trends on Spaceborne Data: Applications to the 2001 Mount Etna Eruption. <i>Remote Sensing</i> , 2022, 14, 1641.	1.8	5
2	Effusion Rates on Mt. Etna and Their Influence on Lava Flow Hazard Assessment. <i>Remote Sensing</i> , 2022, 14, 1366.	1.8	9
3	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
4	Modeling of Geophysical Flows through GPUFLOW. <i>Applied Sciences (Switzerland)</i> , 2022, 12, 4395.	1.3	6
5	A particle swarm optimizationâ€™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
6	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
7	Volcanic Hazard Monitoring Using Multi-Source Satellite Imagery. , 2021, , .		2
8	The 2019 Eruptive Activity at Stromboli Volcano: A Multidisciplinary Approach to Reveal Hidden Features of the â€™Unexpectedâ€™3 July Paroxysm. <i>Remote Sensing</i> , 2021, 13, 4064.	1.8	7
9	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
10	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
11	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
12	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
13	Recognizing Eruptions of Mount Etna through Machine Learning Using Multiperspective Infrared Images. <i>Remote Sensing</i> , 2020, 12, 970.	1.8	14
14	3D lava flow mapping in volcanic areas using multispectral and stereo optical satellite data. <i>AIP Conference Proceedings</i> , 2020, , .	0.3	4
15	Satellite-Based Reconstruction of the Volcanic Deposits during the December 2015 Etna Eruption. <i>Data</i> , 2019, 4, 120.	1.2	13
16	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
17	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
18	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

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19	Improving cloud detection with imperfect satellite images using an artificial neural network approach. , 2019, , .		0
20	Smart Decision Support Systems for Volcanic Applications. <i>Energies</i> , 2019, 12, 1216.	1.6	10
21	Satellite and Ground Remote Sensing Techniques to Trace the Hidden Growth of a Lava Flow Field: The 2014â€“2015 Effusive Eruption at Fogo Volcano (Cape Verde). <i>Remote Sensing</i> , 2018, 10, 1115.	1.8	15
22	Semi-implicit 3D SPH on GPU for lava flows. <i>Journal of Computational Physics</i> , 2018, 375, 854-870.	1.9	14
23	Mapping Volcanic Deposits of the 2011â€“2015 Etna Eruptive Events Using Satellite Remote Sensing. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	48
24	Satellite-driven modeling approach for monitoring lava flow hazards during the 2017 Etna eruption. <i>Annals of Geophysics</i> , 2018, 61, .	0.5	21
25	Preliminary validation of lava benchmark tests on the GPUSPH particle engine. <i>Annals of Geophysics</i> , 2018, 61, .	0.5	5
26	3D Lava flow mapping of the 17â€“25 May 2016 Etna eruption using tri-stereo optical satellite data. <i>Annals of Geophysics</i> , 2018, 61, .	0.5	18
27	Simulating Complex Fluids with Smoothed Particle Hydrodynamics. <i>Annals of Geophysics</i> , 2017, 60, .	0.5	2
28	Conclusion: recommendations and findings of the RED SEED working group. <i>Geological Society Special Publication</i> , 2016, 426, 567-648.	0.8	12
29	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
30	Lava flow hazard modeling during the 2014â€“2015 Fogo eruption, Cape Verde. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 2290-2303.	1.4	69
31	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
32	Lidar surveys reveal eruptive volumes and rates at Etna, 2007â€“2010. <i>Geophysical Research Letters</i> , 2016, 43, 4270-4278.	1.5	38
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	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
35	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
36	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. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 309, 14-30.	0.8	30

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37	MAGFLOW: a physics-based model for the dynamics of lava-flow emplacement. Geological Society Special Publication, 2016, 426, 357-373.	0.8	29
38	Quantifying Effusion Rates at Active Volcanoes through Integrated Time-Lapse Laser Scanning and Photography. Remote Sensing, 2015, 7, 14967-14987.	1.8	29
39	Numerical simulation of basaltic lava flows in the Auckland Volcanic Field, New Zealand—implication for volcanic hazard assessment. Bulletin of Volcanology, 2014, 76, 1.	1.1	43
40	Optimizing Satellite Monitoring of Volcanic Areas Through GPUs and Multi-Core CPUs Image Processing: An OpenCL Case Study. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2013, 6, 2445-2452.	2.3	6
41	From source to surface: dynamics of Etna's lava fountains investigated by continuous strain, magnetic, ground and satellite thermal data. Bulletin of Volcanology, 2013, 75, 1.	1.1	32
42	Separating the thermal fingerprints of lava flows and simultaneous lava fountaining using ground-based thermal camera and SEVIRI measurements. Geophysical Research Letters, 2013, 40, 5058-5063.	1.5	30
43	Lava flow hazards at Mount Etna: constraints imposed by eruptive history and numerical simulations. Scientific Reports, 2013, 3, 3493.	1.6	61
44	Thermal insights into the dynamics of Nyiragongo lava lake from ground and satellite measurements. Journal of Geophysical Research: Solid Earth, 2013, 118, 5771-5784.	1.4	36
45	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
46	A year of lava fountaining at Etna: Volumes from SEVIRI. Geophysical Research Letters, 2012, 39, .	1.5	85
47	The initial phases of the 2008–2009 Mount Etna eruption: A multidisciplinary approach for hazard assessment. Journal of Geophysical Research, 2011, 116, .	3.3	93
48	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
49	Dynamics of a lava fountain revealed by geophysical, geochemical and thermal satellite measurements: The case of the 10 April 2011 Mt Etna eruption. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	51
50	A texton-based cloud detection algorithm for MSG-SEVIRI multispectral images. Geomatics, Natural Hazards and Risk, 2011, 2, 279-290.	2.0	29
51	The HOTSAT volcano monitoring system based on combined use of SEVIRI and MODIS multispectral data. Annals of Geophysics, 2011, 54, .	0.5	30
52	LAV@HAZARD: a web-GIS interface for volcanic hazard assessment. Annals of Geophysics, 2011, 54, .	0.5	16
53	Static stress changes induced by the magmatic intrusions during the 2002–2003 Etna eruption. Journal of Geophysical Research, 2008, 113, .	3.3	30
54	Hot spot detection and effusion rate estimation using satellite data to drive lava flow simulations. , 2008, , .		2

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55	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
56	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
57	A bio-inspired auditory perception model for amplitude-frequency clustering (keynote Paper). , 2005, , .		2
58	Attenuation of body waves in Southeastern Sicily (Italy). <i>Physics of the Earth and Planetary Interiors</i> , 2003, 135, 267-279.	0.7	33
59	A high sensitivity conditioning circuit for capacitive sensors including stray effects compensation and dummy sensors approach. , 0, , .		8
60	Cloud Photogrammetry from Space. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XL-7/W3, 247-254.	0.2	3