

Emanuele Marchetti

List of Publications by Year in descending order

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65
papers

2,369
citations

172386

29
h-index

223716

46
g-index

70
all docs

70
docs citations

70
times ranked

1600
citing authors

#	ARTICLE	IF	CITATIONS
1	Atmospheric waves and global seismoacoustic observations of the January 2022 Hunga eruption, Tonga. <i>Science</i> , 2022, 377, 95-100.	6.0	170
2	Array tracking of infrasonic sources at Stromboli volcano. <i>Geophysical Research Letters</i> , 2002, 29, 33-1-33-4.	1.5	144
3	Effusive to explosive transition during the 2003 eruption of Stromboli volcano. <i>Geology</i> , 2005, 33, 341.	2.0	119
4	Ash-plume dynamics and eruption source parameters by infrasound and thermal imagery: The 2010 Eyjafjallajökull eruption. <i>Earth and Planetary Science Letters</i> , 2013, 366, 112-121.	1.8	99
5	Infrasonic monitoring at Stromboli volcano during the 2003 effusive eruption: Insights on the explosive and degassing process of an open conduit system. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	91
6	The onset of the 2007 Stromboli effusive eruption recorded by an integrated geophysical network. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 182, 131-136.	0.8	82
7	Radon surveys and real-time monitoring at Stromboli volcano: Influence of soil temperature, atmospheric pressure and tidal forces on ²²² Rn degassing. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 184, 381-388.	0.8	78
8	Infrasonic Early Warning System for Explosive Eruptions. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 9570-9585.	1.4	76
9	Tracing the differences between Vulcanian and Strombolian explosions using infrasonic and thermal radiation energy. <i>Earth and Planetary Science Letters</i> , 2009, 279, 273-281.	1.8	75
10	Blast waves from violent explosive activity at Yasur Volcano, Vanuatu. <i>Geophysical Research Letters</i> , 2013, 40, 5838-5843.	1.5	67
11	Infrasonic tremor observed at Kālauea Volcano, Hawai'i. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	63
12	Infrasound reveals transition to oscillatory discharge regime during lava fountaining: Implication for early warning. <i>Geophysical Research Letters</i> , 2013, 40, 3008-3013.	1.5	62
13	Monitoring snow avalanches in Northwestern Italian Alps using an infrasound array. <i>Cold Regions Science and Technology</i> , 2011, 69, 177-183.	1.6	54
14	IMS observations of infrasound and acoustic-gravity waves produced by the January 2022 volcanic eruption of Hunga, Tonga: A global analysis. <i>Earth and Planetary Science Letters</i> , 2022, 591, 117639.	1.8	54
15	Volcano seismicity and ground deformation unveil the gravity-driven magma discharge dynamics of a volcanic eruption. <i>Nature Communications</i> , 2015, 6, 6998.	5.8	52
16	Infrasound Array Analysis of Debris Flow Activity and Implication for Early Warning. <i>Journal of Geophysical Research F: Earth Surface</i> , 2019, 124, 567-587.	1.0	50
17	Toward an Improved Representation of Middle Atmospheric Dynamics Thanks to the ARISE Project. <i>Surveys in Geophysics</i> , 2018, 39, 171-225.	2.1	47
18	Stability of the seismic source during effusive and explosive activity at Stromboli Volcano. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	46

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19	Space- and Ground-Based Geophysical Data Tracking of Magma Migration in Shallow Feeding System of Mount Etna Volcano. <i>Remote Sensing</i> , 2019, 11, 1182.	1.8	44
20	Monochromatic infrasonic tremor driven by persistent degassing and convection at Villarrica Volcano, Chile. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	43
21	Tracking dynamics of magma migration in open-conduit systems. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	1.1	42
22	Infrasonic evidences for branched conduit dynamics at Mt. Etna volcano, Italy. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	40
23	Tracking Pyroclastic Flows at Soufrière Hills Volcano. <i>Eos</i> , 2009, 90, 229-230.	0.1	38
24	Forecasting Effusive Dynamics and Decompression Rates by Magmatic Model at Open-vent Volcanoes. <i>Scientific Reports</i> , 2017, 7, 3885.	1.6	38
25	Seismic, acoustic, and thermal network monitors the 2003 eruption of Stromboli Volcano. <i>Eos</i> , 2004, 85, 329.	0.1	35
26	Study of the wind velocityâ€‘layered structure in the stratosphere, mesosphere, and lower thermosphere by using infrasound probing of the atmosphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 8828-8840.	1.2	34
27	Seismoacoustic measurements during the Julyâ€‘August 2001 eruption of Mt. Etna volcano, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 137, 219-230.	0.8	33
28	DUCKS: Low cost thermal monitoring units for near-vent deployment. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 143, 335-360.	0.8	33
29	Dynamics of Strombolian Activity. <i>Geophysical Monograph Series</i> , 0, , 39-48.	0.1	32
30	Dynamic response of the Baptistery of San Giovanni in Florence, Italy, based on ambient vibration test. <i>Journal of Cultural Heritage</i> , 2016, 20, 632-640.	1.5	32
31	Infrasound array criteria for automatic detection and front velocity estimation of snow avalanches: towards a real-time early-warning system. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 2545-2555.	1.5	31
32	Coupled thermal oscillations in explosive activity at different craters of Stromboli volcano. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	30
33	Integrated petrochemical and geophysical data reveals thermal distribution of the feeding conduits at Stromboli volcano, Italy. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	30
34	Ground deformation reveals the scale-invariant conduit dynamics driving explosive basaltic eruptions. <i>Nature Communications</i> , 2021, 12, 1683.	5.8	26
35	Ground-based infrared monitoring provides new tool for remote tracking of volcanic activity. <i>Eos</i> , 2003, 84, 409-418.	0.1	24
36	Ground deformation and seismicity related to the propagation and drainage of the dyke feeding system during the 2007 effusive eruption at Stromboli volcano (Italy). <i>Journal of Volcanology and Geothermal Research</i> , 2009, 182, 155-161.	0.8	24

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37	Assessing and optimizing the performance of infrasound networks to monitor volcanic eruptions. <i>Geophysical Journal International</i> , 2017, 208, 437-448.	1.0	23
38	Acoustic wavefield and Mach wave radiation of flashing arcs in strombolian explosion measured by image luminance. <i>Geophysical Research Letters</i> , 2014, 41, 7135-7142.	1.5	21
39	Evidence of Large Infrasonic Radiation Induced by Earthquake Interaction with Alluvial Sediments. <i>Seismological Research Letters</i> , 2016, 87, 678-684.	0.8	20
40	Full structural dynamic response from ambient vibration of Giotto's bell tower in Firenze (Italy), using modal analysis and seismic interferometry. <i>NDT and E International</i> , 2019, 102, 9-15.	1.7	20
41	The European Infrasound Bulletin. <i>Pure and Applied Geophysics</i> , 2018, 175, 3619-3638.	0.8	19
42	Long range infrasound monitoring of Etna volcano. <i>Scientific Reports</i> , 2019, 9, 18015.	1.6	19
43	Estimating the Ground Motion Distribution of the 2016 Mw 6.2 Amatrice, Italy, Earthquake Using Remote Infrasound Observations. <i>Seismological Research Letters</i> , 2018, 89, 2227-2236.	0.8	18
44	Infrasound Monitoring of Volcanic Eruptions and Contribution of ARISE to the Volcanic Ash Advisory Centers. , 2019, , 1141-1162.		18
45	Remote Infrasound Monitoring of Mount Etna: Observed and Predicted Network Detection Capability. <i>InfraMatics</i> , 2013, 02, 1-11.	2.0	15
46	Multi-Parametric Field Experiment Links Explosive Activity and Persistent Degassing at Stromboli. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	12
47	Seismic Tomography Experiment at Italy's Stromboli Volcano. <i>Eos</i> , 2008, 89, 269-270.	0.1	11
48	Faults strengthening and seismicity induced by geothermal exploitation on a spreading volcano, Mt. Amiata, Italia. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 301, 159-168.	0.8	11
49	Modeling Volcanic Eruption Parameters by Near-Source Internal Gravity Waves. <i>Scientific Reports</i> , 2016, 6, 36727.	1.6	11
50	Seismo-acoustic energy partitioning of a powder snow avalanche. <i>Earth Surface Dynamics</i> , 2020, 8, 399-411.	1.0	10
51	Propagation of acoustic waves in a viscoelastic two-phase system: influence of gas bubble concentration. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 137, 93-108.	0.8	9
52	Trends in activity at Pu'u 'O'o during 2001-2003: insights from the continuous thermal record. <i>Geological Society Special Publication</i> , 2008, 307, 85-101.	0.8	9
53	Synergistic and Interdisciplinary Approaches for the Conservation of Monumental Heritage: Cupola of Santa Maria del Fiore in Florence, Italy. <i>Journal of Performance of Constructed Facilities</i> , 2016, 30, .	1.0	9
54	Infrasonic and Seismic Analysis of Debris Flow Events at Illgraben (Switzerland): Relating Signal Features to Flow Parameters and to the Seismo-Acoustic Source Mechanism. <i>Journal of Geophysical Research F: Earth Surface</i> , 2022, 127, .	1.0	9

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55	NAP: a tool for noise data analysis. Application to Virgo engineering runs. Classical and Quantum Gravity, 2005, 22, S1041-S1049.	1.5	7
56	Volcanic and Seismic Activity at Stromboli Preceding the 2002-2003 Flank Eruption. Geophysical Monograph Series, 0, , 93-104.	0.1	7
57	Numerical Modeling of Infrasound Energy Radiation by Debris Flow Events. Pure and Applied Geophysics, 2021, 178, 2301-2313.	0.8	7
58	Using dense seismo-acoustic network to provide timely warning of the 2019 paroxysmal Stromboli eruptions. Scientific Reports, 2021, 11, 14464.	1.6	7
59	Broadband Infrasound Signal of a Collapsing Hanging Glacier. Geophysical Research Letters, 2021, 48, e2021GL093579.	1.5	7
60	A simple line detection algorithm applied to Virgo data. Classical and Quantum Gravity, 2005, 22, S1189-S1196.	1.5	6
61	Detection and source parametrization of small-energy fireball events in Western Alps with ground-based infrasonic arrays. Geophysical Journal International, 2021, 225, 1518-1529.	1.0	4
62	Real-time tephra-fallout accumulation rates and grain-size distributions using ASHER (ASH collector) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	0.8	3
63	Status of VIRGO. , 2004, 5500, 58.		2
64	Gas Flux Rate and Migration of the Magma Column. Geophysical Monograph Series, 2013, , 259-267.	0.1	2
65	Dynamic Response of the Giottoâ€™s Bell-Tower, Firenze, Italy. , 2015, , 323-327.		1