

Andrea Cannata

List of Publications by Year in descending order

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80
papers

2,271
citations

172386

29
h-index

254106

43
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80
all docs

80
docs citations

80
times ranked

1922
citing authors

#	ARTICLE	IF	CITATIONS
1	Global quieting of high-frequency seismic noise due to COVID-19 pandemic lockdown measures. <i>Science</i> , 2020, 369, 1338-1343.	6.0	202
2	Insights into magma and fluid transfer at Mount Etna by a multiparametric approach: A model of the events leading to the 2011 eruptive cycle. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3519-3539.	1.4	108
3	Patterns in the recent 2007â€“2008 activity of Mount Etna volcano investigated by integrated geophysical and geochemical observations. <i>Geochemistry, Geophysics, Geosystems</i> , 2010, 11, .	1.0	88
4	Seismic Reflection Profiles and Subsurface Geology of the Area Interested by the 2016â€“2017 Earthquake Sequence (Central Italy). <i>Tectonics</i> , 2018, 37, 1116-1137.	1.3	76
5	Shallow magma pathway geometry at Mt. Etna volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	71
6	Similarity Measures and Dimensionality Reduction Techniques for Time Series Data Mining. , 0, , .		70
7	Time-space variation of volcano-seismic events at La Fossa (Vulcano, Aeolian Islands, Italy): new insights into seismic sources in a hydrothermal system. <i>Bulletin of Volcanology</i> , 2010, 72, 803-816.	1.1	56
8	Periodic volcanic degassing behavior: The Mount Etna example. <i>Geophysical Research Letters</i> , 2013, 40, 4818-4822.	1.5	53
9	Tracking eruptive phenomena by infrasound: May 13, 2008 eruption at Mt. Etna. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	50
10	A multiparameter approach to volcano monitoring based on 4D analyses of seismoâ€“volcanic and acoustic signals: The 2008 Mt. Etna eruption. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	48
11	A comprehensive interpretative model of slow slip events on Mt. Etna's eastern flank. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 635-658.	1.0	48
12	Spaceâ€“Time Evolution of Magma Storage and Transfer at Mt. Etna Volcano (Italy): The 2015â€“2016 Reawakening of Voragine Crater. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 471-495.	1.0	48
13	Multiparametric Approach in Investigating Volcano-Hydrothermal Systems: the Case Study of Vulcano (Aeolian Islands, Italy). <i>Pure and Applied Geophysics</i> , 2012, 169, 167-182.	0.8	45
14	Multidisciplinary investigation on a lava fountain preceding a flank eruption: The 10 May 2008 Etna case. <i>Geochemistry, Geophysics, Geosystems</i> , 2011, 12, n/a-n/a.	1.0	44
15	Monitoring Seismo-volcanic and Infrasonic Signals at Volcanoes: Mt. Etna Case Study. <i>Pure and Applied Geophysics</i> , 2013, 170, 1751-1771.	0.8	44
16	Long period and very long period events at Mt. Etna volcano: Characteristics, variability and causality, and implications for their sources. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 187, 227-249.	0.8	43
17	Multiparametric study of the Februaryâ€“April 2013 paroxysmal phase of Mount Etna volcano: A multiparametric approach to magma and fluid transfer at Mount Etna volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 1932-1949.	1.0	41
18	High time resolution fluctuations in volcanic carbon dioxide degassing from Mount Etna. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 270, 115-121.	0.8	40

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19	Characterization and location of infrasonic sources in active volcanoes: Mount Etna, September–November 2007. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	39
20	The 1986–2021 paroxysmal episodes at the summit craters of Mt. Etna: Insights into volcano dynamics and hazard. <i>Earth-Science Reviews</i> , 2021, 220, 103686.	4.0	39
21	Clustering and classification of infrasonic events at Mount Etna using pattern recognition techniques. <i>Geophysical Journal International</i> , 2011, 185, 253-264.	1.0	38
22	Pressurization and depressurization phases inside the plumbing system of Mount Etna volcano: Evidence from a multiparametric approach. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 5965-5982.	1.4	36
23	Lava lake surface characterization by thermal imaging: Erta 'Ale volcano (Ethiopia). <i>Geochemistry, Geophysics, Geosystems</i> , 2008, 9, .	1.0	34
24	Integrated GPR and laboratory water content measures of sandy soils: From laboratory to field scale. <i>Construction and Building Materials</i> , 2018, 159, 734-744.	3.2	34
25	How a complex basaltic volcanic system works: Constraints from integrating seismic, geodetic, and petrological data at Mount Etna volcano during the July–August 2014 eruption. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5659-5678.	1.4	33
26	The unusual 28 December 2014 dike-fed paroxysm at Mount Etna: Timing and mechanism from a multidisciplinary perspective. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 2037-2053.	1.4	33
27	An Integrated Geophysical Approach to Track Magma Intrusion: The 2018 Christmas Eve Eruption at Mount Etna. <i>Geophysical Research Letters</i> , 2019, 46, 8009-8017.	1.5	33
28	Tornillos at Vulcano: Clues to the dynamics of the hydrothermal system. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 198, 377-393.	0.8	32
29	Gas burst vs. gas-rich magma recharge: A multidisciplinary study to reveal factors controlling triggering of the recent paroxysmal eruptions at Mt. Etna. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 278-279, 1-13.	0.8	32
30	New insights into banded tremor from the 2008–2009 Mount Etna eruption. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	31
31	Response of Mount Etna to dynamic stresses from distant earthquakes. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	31
32	Volcanic tremor at Mt. Etna: Inferences on magma dynamics during effusive and explosive activity. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 178, 19-31.	0.8	30
33	Degassing behaviour at basaltic volcanoes: New insights from experimental investigations of different conduit geometry and magma viscosity. <i>Earth-Science Reviews</i> , 2019, 192, 317-336.	4.0	30
34	Dynamics of mild strombolian activity on Mt. Etna. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 300, 103-111.	0.8	26
35	Shallow conduit dynamics fuel the unexpected paroxysms of Stromboli volcano during the summer 2019. <i>Scientific Reports</i> , 2021, 11, 266.	1.6	26
36	Joint analysis of infrasound and seismic signals by cross wavelet transform: detection of Mt. Etna explosive activity. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 1669-1677.	1.5	25

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37	Insights into Mt. Etna's Shallow Plumbing System from the Analysis of Infrasonic Signals, August 2007–December 2009. <i>Pure and Applied Geophysics</i> , 2015, 172, 473-490.	0.8	25
38	Insights into explosive activity at closely-spaced eruptive vents using infrasonic signals: Example of Mt. Etna 2008 eruption. <i>Journal of Volcanology and Geothermal Research</i> , 2011, 208, 1-11.	0.8	24
39	Probabilistic Reasoning Over Seismic Time Series: Volcano Monitoring by Hidden Markov Models at Mt. Etna. <i>Pure and Applied Geophysics</i> , 2016, 173, 2365-2386.	0.8	24
40	A multivariate probabilistic graphical model for real-time volcano monitoring on Mount Etna. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3480-3496.	1.4	24
41	"Explosive volcanic activity at Mt. Yasur: A characterization of the acoustic events (9–12th July 2011)". <i>Journal of Volcanology and Geothermal Research</i> , 2016, 322, 175-183.	0.8	23
42	Relationship between soil CO ₂ flux and volcanic tremor at Mt. Etna: Implications for magma dynamics. <i>Environmental Earth Sciences</i> , 2010, 61, 477-489.	1.3	21
43	On the time-scale of thermal cycles associated with open-vent degassing. <i>Bulletin of Volcanology</i> , 2012, 74, 1281-1292.	1.1	21
44	Seismoacoustic investigations of paroxysmal activity at Mt. Etna volcano: New insights into the 16 November 2006 eruption. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	20
45	Seismic and infrasonic signals at Mt. Etna: Modeling the North-East crater conduit and its relation with the 2008–2009 eruption feeding system. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 254, 53-68.	0.8	19
46	Unravelling the links between seismo-acoustic signals and eruptive parameters: Etna lava fountain case study. <i>Scientific Reports</i> , 2019, 9, 16417.	1.6	19
47	Motif Discovery on Seismic Amplitude Time Series: The Case Study of Mt Etna 2011 Eruptive Activity. <i>Pure and Applied Geophysics</i> , 2013, 170, 529-545.	0.8	18
48	Time variation of spectral and wavefield features of volcanic tremor at Mt. Etna (January–June 1999). <i>Journal of Volcanology and Geothermal Research</i> , 2007, 161, 318-332.	0.8	17
49	Measurement of Sea Waves. <i>Sensors</i> , 2022, 22, 78.	2.1	17
50	Time-series analysis of fissure-fed multi-vent activity: a snapshot from the July 2014 eruption of Etna volcano (Italy). <i>Bulletin of Volcanology</i> , 2017, 79, 1.	1.1	16
51	Temporal Changes of Seismic Velocity Caused by Volcanic Activity at Mt. Etna Revealed by the Autocorrelation of Ambient Seismic Noise. <i>Frontiers in Earth Science</i> , 2019, 6, .	0.8	16
52	Exploring the link between microseism and sea ice in Antarctica by using machine learning. <i>Scientific Reports</i> , 2019, 9, 13050.	1.6	16
53	Changes in Crater Geometry Revealed by Inversion of Harmonic Infrasonic Observations: 24 December 2018 Eruption of Mount Etna, Italy. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088077.	1.5	16
54	Towards an Automatic Monitoring System of Infrasonic Events at Mt. Etna: Strategies for Source Location and Modeling. <i>Pure and Applied Geophysics</i> , 2010, 167, 1215-1231.	0.8	15

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55	Genesis and mechanisms controlling tornillo seismo-volcanic events in volcanic areas. Scientific Reports, 2019, 9, 7338.	1.6	15
56	Seismic evidence of the COVID-19 lockdown measures: a case study from eastern Sicily (Italy). Solid Earth, 2021, 12, 299-317.	1.2	14
57	Unravelling the Relationship Between Microseisms and Spatial Distribution of Sea Wave Height by Statistical and Machine Learning Approaches. Remote Sensing, 2020, 12, 761.	1.8	13
58	Crustal changes at Mt. Etna volcano accompanying the 2002â€“2003 eruption as inferred from a repeating earthquake analysis. Geophysical Research Letters, 2012, 39, .	1.5	12
59	Chapter 7.3â€“Mount Melbourne and Mount Rittmann. Geological Society Memoir, 2021, 55, 741-758.	0.9	12
60	Monitoring crustal changes at volcanoes by seismic noise interferometry: Mt. Etna case of study. Journal of Volcanology and Geothermal Research, 2017, 337, 165-174.	0.8	11
61	Tracking the summit activity of Mt. Etna volcano between July 2019 and January 2020 by integrating petrological and geophysical data. Journal of Volcanology and Geothermal Research, 2021, 418, 107350.	0.8	11
62	Insights Into Microseism Sources by Array and Machine Learning Techniques: Ionian and Tyrrhenian Sea Case of Study. Frontiers in Earth Science, 2020, 8, .	0.8	9
63	Clustering of Experimental Seismo-Acoustic Events Using Self-Organizing Map (SOM). Frontiers in Earth Science, 2021, 8, .	0.8	8
64	Repeating volcano-tectonic earthquakes at Mt. Etna volcano (Sicily, Italy) during 1999â€“2009. Gondwana Research, 2013, 24, 1223-1236.	3.0	7
65	Explosive volcanic activity at Mt. Yasur: A characterization of the acoustic events (9â€“12th July 2011). Journal of Volcanology and Geothermal Research, 2015, 302, 24.	0.8	7
66	An experimental device for characterizing degassing processes and related elastic fingerprints: Analog volcano seismo-acoustic observations. Review of Scientific Instruments, 2018, 89, 055102.	0.6	7
67	Interplay between Tectonics and Mount Etnaâ€™s Volcanism: Insights into the Geometry of the Plumbing System. , 2011, , .		5
68	Insights into lava fountain eruptions at Mt. Etna by improved source location of the volcanic tremor. Annals of Geophysics, 2018, 61, .	0.5	5
69	Tephrostratigraphy of proximal pyroclastic sequences at Mount Melbourne (northern Victoria Land,) Tj ETQq1 1 0.784314 rgBT /Over and Geothermal Research, 2022, 422, 107457.	0.8	5
70	The gravity anomaly of Mount Amiata; different approaches for understanding anomaly source distribution. Geophysical Journal International, 2017, 211, 865-882.	1.0	4
71	Repeating earthquakes and ground deformation reveal the structure and triggering mechanisms of the Pernicana fault, Mt. Etna. Communications Earth & Environment, 2021, 2, .	2.6	4
72	Design of a seismo-acoustic station for Antarctica. Review of Scientific Instruments, 2018, 89, 044502.	0.6	3

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73	Small-Scale Volcanic Structures of the Aeolian Volcanic Arc Revealed by Seismic Attenuation. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	3
74	Characterization of seismic signals recorded in Tethys Bay, Victoria Land (Antarctica): data from atmosphere-cryosphere-hydrosphere interaction. <i>Annals of Geophysics</i> , 2017, 60, .	0.5	3
75	DBStrata. , 2011, , .		2
76	Seismo-acoustic gliding: An experimental study. <i>Earth and Planetary Science Letters</i> , 2022, 579, 117344.	1.8	2
77	Editorial: Advanced Time Series Analysis in Geosciences. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	1
78	Reply to comment by D. Carbone and D. PatanÃ“ on â€œMultidisciplinary investigation on a lava fountain preceding a flank eruption: The 10 May 2008 Etna caseâ€•. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	0
79	CLUSTERING OF INFRASONIC EVENTS AS TOOL TO DETECT AND LOCATE EXPLOSIVE ACTIVITY AT MT. ETNA VOLCANO. <i>World Scientific Series on Nonlinear Science, Series B</i> , 2010, , 195-200.	0.2	0
80	Volcanic tremor and long period events at Mt. Etna: Same mechanism at different rates or not?. <i>Physics of the Earth and Planetary Interiors</i> , 2022, 324, 106850.	0.7	0