Simona Petrosino

List of Publications by Year
in descending order

51 papers	855 citations	516710 16 h-index	552781 26 g-index
53 all docs	53 docs citations	53 times ranked	663 citing authors

#	Article	IF	Citations
1	Automatic Classification of Seismic Signals at Mt. Vesuvius Volcano, Italy, Using Neural Networks. Bulletin of the Seismological Society of America, 2005, 95, 185-196.	2.3	126
2	Seismicity associated with the 2004â€“2006 renewed ground uplift at Campi Flegrei Caldera, Italy. Physics of the Earth and Planetary Interiors, 2007, 165, 14-24.	1.9	83
3	Hydrothermal origin for sustained Long-Period (LP) activity at Campi Flegrei Volcanic Complex, Italy. Journal of Volcanology and Geothermal Research, 2008, 177, 1035-1044.	2.1	52
4	Tidal and hydrological periodicities of seismicity reveal new risk scenarios at Campi Flegrei caldera. Scientific Reports, 2018, 8, 13808.	3.3	50
5	Subsurface structure of the Solfatara volcano (Campi Flegrei caldera, Italy) as deduced from joint seismicâ€noise array, volcanological and morphostructural analysis. Geochemistry, Geophysics, Geosystems, 2012, 13, .	2.5	33
6	Some Investigations on a Possible Relationship between Ground Deformation and Seismic Activity at Campi Flegrei and Ischia Volcanic Areas (Southern Italy). Geosciences (Switzerland), 2019, 9, 222.	2.2	30
7	Recalibration of the Magnitude Scales at Campi Flegrei, Italy, on the Basis of Measured Path and Site and Transfer Functions. Bulletin of the Seismological Society of America, 2008, 98, 1964-1974.	2.3	29
8	Medium and long period ground oscillatory pattern inferred by borehole tiltmetric data: New perspectives for the Campi Flegrei caldera crustal dynamics. Earth and Planetary Science Letters, 2018, 504, 21-29.	4.4	27
9	Inferences on the source of long-period seismicity at Campi Flegrei from polarization analysis and reconstruction of the asymptotic dynamics. Bulletin of Volcanology, 2012, 74, 1537-1551.	3.0	23
10	Study on the Long-Period source mechanism at Campi Flegrei (Italy) by a multi-parametric analysis. Physics of the Earth and Planetary Interiors, 2012, 206-207, 16-30.	1.9	23
11	Synchronization between tides and sustained oscillations of the hydrothermal system of Campi Flegrei (Italy). Geochemistry, Geophysics, Geosystems, 2013, 14, 2628-2637.	2.5	23
12	Automatic detection of long-period events at Campi Flegrei Caldera (Italy). Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	22
13	Source location of long period seismicity at VolcÃn de Colima, MÃ©xico. Bulletin of Volcanology, 2011, 73, 887-898.	3.0	21
14	Convolutive independent component analysis for processing massive datasets: a case study at Campi Flegrei (Italy). Natural Hazards, 2017, 86, 417-429.	3.4	20
15	A local-magnitude scale for Mt. Vesuvius from synthetic Wood-Anderson seismograms. Journal of Seismology, 2001, 5, 207-215.	1.3	19
16	Crustal dynamics of Mount Vesuvius from 1998 to 2005: Effects on seismicity and fluid circulation. Journal of Geophysical Research, 2008, 113, .	3.3	19
17	Location of the source and shallow velocity model deduced from the explosion quakes recorded by two seismic antennas at Stromboli volcano. Physics and Chemistry of the Earth, 2000, 25, 731-735.	0.6	18
18	Fast wavefield decomposition of volcano-tectonic earthquakes into polarized P and S waves by Independent Component Analysis. Tectonophysics, 2016, 690, 355-361.	2.2	17

#	Article	IF	Citations
19	Time evolution of medium and long-period ground tilting at Campi Flegrei caldera. Advances in Geosciences, 0, 52, 9-17.	12.0	17
20	Seismic Attenuation and Shallow Velocity Structures at Stromboli Volcano, Italy. Bulletin of the Seismological Society of America, 2002, 92, 1102-1116.	2.3	15
21	Small-aperture Array for Seismic Monitoring of Mt. Vesuvius. Seismological Research Letters, 2005, 76, 344-355.	1.9	14
22	The whisper of the hydrothermal seismic noise at Ischia Island. Journal of Volcanology and Geothermal Research, 2020, 389, 106693.	2.1	14
23	Spectral analysis of ground thermal image temperatures: what we are learning at Solfatara volcano (Italy). Advances in Geosciences, 0, 52, 55-65.	12.0	13
24	Detection of Seismic Signals from Background Noise in the Area of Campi Flegrei: Limits of the Present Seismic Monitoring. Seismological Research Letters, 2013, 84, 190-198.	1.9	10
25	Picking up the hydrothermal whisper at Ischia Island in the Covid-19 lockdown quiet. Scientific Reports, 2021, 11, 8871.	3.3	10
26	Low frequency seismic source investigation in volcanic environment: the Mt. Vesuvius atypical case. Advances in Geosciences, 0, 52, 29-39.	12.0	10
27	Fluid migrations and volcanic earthquakes from depolarized ambient noise. Nature Communications, 2021, 12, 6656.	12.8	10
28	Tidal Modulation of Hydrothermal Tremor: Examples From Ischia and Campi Flegrei Volcanoes, Italy. Frontiers in Earth Science, 2022, 9, .	1.8	10
29	Title is missing!. Journal of Seismology, 1999, 3, 83-94.	1.3	9
30	Tracking the Endogenous Dynamics of the Solfatara Volcano (Campi Flegrei, Italy) through the Analysis of Ground Thermal Image Temperatures. Atmosphere, 2021, 12, 940.	2.3	9
31	Tracking the recent dynamics of Mt. Vesuvius from joint investigations of ground deformation, seismicity and geofluid circulation. Scientific Reports, 2021, 11, 965.	3.3	9
32	Modulation of Ground Deformation and Earthquakes by Rainfall at Vesuvius and Campi Flegrei (Italy). Frontiers in Earth Science, 0, 9, .	1.8	8
33	Semantically Enhanced IoT-Oriented Seismic Event Detection: An Application to Colima and Vesuvius Volcanoes. IEEE Internet of Things Journal, 2022, 9, 9789-9803.	8.7	8
34	Characteristics of the seismicity of Vesuvius and Campi Flegrei during the year 2000. Annals of Geophysics, 2009, 44, .	1.0	7
35	Characterization of the seismic dynamical state through joint analysis of earthquakes and seismic noise: the example of Ischia Volcanic Island (Italy). Advances in Geosciences, 0, 52, 19-28.	12.0	6
36	On the Link Between Global Volcanic Activity and Global Mean Sea Level. Frontiers in Earth Science, 0, 10, .	1.8	6

#	Article	IF	Citations
37	Groundwater geochemistry of the Mt. Vesuvius area: implications for volcano surveillance and relationship with hydrological and seismic signals. Annals of Geophysics, 2013, 56, .	1.0	5
38	Array and spectral ratio techniques applied to seismic noise to investigate the Campi Flegrei (Italy) subsoil structure at different scales. Advances in Geosciences, 0, 52, 75-85.	12.0	5
39	The first Long Period earthquake detected in the background seismicity at Mt. Vesuvius. Annals of Geophysics, 2013, 56, .	1.0	5
40	Interaction between seismicity and deformation on different time scales in volcanic areas: Campi Flegrei and Stromboli. Advances in Geosciences, 0, 52, 1-8.	12.0	4
41	Seismic activity and thermal regime of low temperature fumaroles at Mt. Vesuvius in 2004-2011: distinguishing among seismic, volcanic and hydrological signals. Annals of Geophysics, 2013, 56, .	1.0	3
42	Peak ground acceleration produced by local earthquakes in volcanic areas of Campi Flegrei and Mt. Vesuvius. Annals of Geophysics, 2009, 47, .	1.0	3
43	Shear-wave velocity structure at Mt. Etna from inversion of Rayleigh-wave dispersion patterns (2 s < T) Tj ETQq1 1 0.784314 rgBT /Ov	1.0	3
44	Towards a semantic model for IoT-based seismic event detection and classification. , 2020, , .		3
45	Automatic Discrimination of Earthquakes and False Events in Seismological Recording for Volcanic Monitoring. Lecture Notes in Computer Science, 2002, , 140-145.	1.3	2
46	Independent component analysis as a monitoring tool in geophysical environment: The case of Campi Flegrei (Italy). , 2018, , .		1
47	Identifying the Fingerprint of a Volcano in the Background Seismic Noise from Machine Learning-Based Approach. Applied Sciences (Switzerland), 2022, 12, 6835.	2.5	1
48	Experimental study for evaluation of a suitable ground displacement monitoring system: Pilot hole Campi Flegrei Deep Drilling Project case. , 2013, , .		0
49	Preface to â€œUnderstanding volcanic processes through geophysical and volcanological data investigations: some case studies from Italian sites (EGU2019 GMPV5.11 session, COV10 S01.11 session)â€• Advances in Geosciences, 0, 52, 153-158.	12.0	0
50	New constraints for site-effect characterization from seismic noise analysis in southern Italy. San Fele case study. Annals of Geophysics, 2010, 53, .	1.0	0
51	Analysis of seismic noise to check the mechanical isolation of a medical device. Annals of Geophysics, 2011, 54, .	1.0	0