

Carlo Giunchi

List of Publications by Year in descending order

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Version: 2024-02-01

44
papers

1,273
citations

331670

21
h-index

361022

35
g-index

55
all docs

55
docs citations

55
times ranked

1453
citing authors

#	ARTICLE	IF	CITATIONS
1	Tsunami threat in the Indian Ocean from a future megathrust earthquake west of Sumatra. <i>Earth and Planetary Science Letters</i> , 2008, 265, 61-81.	4.4	109
2	Dynamic models of subduction: geophysical and geological evidence in the Tyrrhenian Sea. <i>Geophysical Journal International</i> , 1996, 126, 555-578.	2.4	80
3	Effects of topography and rheological layering on ground deformation in volcanic regions. <i>Journal of Volcanology and Geothermal Research</i> , 2003, 122, 89-110.	2.1	76
4	The 2004–2006 uplift episode at Campi Flegrei caldera (Italy): Constraints from SBAS–InSAR ENVISAT data and Bayesian source inference. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	66
5	Which Picker Fits My Data? A Quantitative Evaluation of Deep Learning Based Seismic Pickers. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	3.4	66
6	Analytical and 3-D numerical modelling of Mt. Etna (Italy) volcano inflation. <i>Geophysical Journal International</i> , 2005, 163, 852-862.	2.4	65
7	Structural and rheological constraints on source depth and overpressure estimates at the Campi Flegrei caldera, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 144, 105-118.	2.1	64
8	On deformation sources in volcanic areas: Modeling the Campi Flegrei (Italy) 1982–84 unrest. <i>Earth and Planetary Science Letters</i> , 2011, 306, 175-185.	4.4	49
9	Glacial isostatic adjustment and relative sea-level changes: the role of lithospheric and upper mantle heterogeneities in a 3-D spherical Earth. <i>Geophysical Journal International</i> , 2006, 165, 692-702.	2.4	47
10	Lunar Gravitational-wave Antenna. <i>Astrophysical Journal</i> , 2021, 910, 1.	4.5	41
11	Plio-Quaternary vertical motion of the Northern Apennines: Insights from dynamic modeling. <i>Tectonics</i> , 1999, 18, 703-718.	2.8	40
12	INSTANCE – the Italian seismic dataset for machine learning. <i>Earth System Science Data</i> , 2021, 13, 5509-5544.	9.9	40
13	Postglacial rebound in a non-Newtonian spherical Earth. <i>Geophysical Research Letters</i> , 2000, 27, 2065-2068.	4.0	35
14	Numerical inversion of deformation caused by pressure sources: application to Mount Etna (Italy). <i>Geophysical Journal International</i> , 2008, 172, 873-884.	2.4	35
15	Modeling Earth's post-glacial rebound. <i>Eos</i> , 2004, 85, 62.	0.1	34
16	Lateral viscosity variations and post-glacial rebound: Effects on present-day VLBI baseline deformations. <i>Geophysical Research Letters</i> , 1997, 24, 13-16.	4.0	32
17	Site-selection criteria for the Einstein Telescope. <i>Review of Scientific Instruments</i> , 2020, 91, 094504.	1.3	32
18	SeisBench – A Toolbox for Machine Learning in Seismology. <i>Seismological Research Letters</i> , 2022, 93, 1695-1709.	1.9	32

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19	Numerical modelling of the Aegean-Anatolian region: geodynamical constraints from observed rheological heterogeneities. <i>Geophysical Journal International</i> , 2001, 146, 760-780.	2.4	26
20	COVID-19 lockdown and its latency in Northern Italy: seismic evidence and socio-economic interpretation. <i>Scientific Reports</i> , 2020, 10, 16487.	3.3	26
21	Reproducing the velocity and stress fields in the aegean Region. <i>Geophysical Research Letters</i> , 1997, 24, 2087-2090.	4.0	24
22	Interplay between subduction and continental convergence: a three-dimensional dynamic model for the Central Mediterranean. <i>Geophysical Journal International</i> , 1997, 131, f9-f13.	2.4	22
23	A numerical model of the Hellenic Subduction Zone: Active stress field and sea-level changes. <i>Geophysical Research Letters</i> , 1996, 23, 2485-2488.	4.0	21
24	Near-field propagation of tsunamis from megathrust earthquakes. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	21
25	High-pressure/low-temperature metamorphism and the dynamics of an accretionary wedge. <i>Geophysical Journal International</i> , 1999, 136, 620-628.	2.4	20
26	SISMIKO: emergency network deployment and data sharing for the 2016 central Italy seismic sequence. <i>Annals of Geophysics</i> , 2016, 59, .	1.0	19
27	Mantle viscosity beneath the Hudson Bay: An inversion based on the Metropolis algorithm. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 12-1-ETG 12-15.	3.3	17
28	A Seismological Study of the Sos Enattos Area – the Sardinia Candidate Site for the Einstein Telescope. <i>Seismological Research Letters</i> , 2021, 92, 352-364.	1.9	17
29	Contribution of numeric dynamic modelling to the understanding of the seismotectonic regime of the northern Apennines. <i>Tectonophysics</i> , 1999, 315, 15-30.	2.2	15
30	Characterization of the Sos Enattos site for the Einstein Telescope. <i>Journal of Physics: Conference Series</i> , 2020, 1468, 012242.	0.4	15
31	Three-dimensional finite element modeling of stress interaction: An application to Landers and Hector Mine fault systems. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	13
32	Modelling deformation rates in the western Gulf of Corinth: rheological constraints. <i>Geophysical Journal International</i> , 2008, 174, 749-757.	2.4	12
33	The role of subduction on the horizontal motions in the Tyrrhenian Basin: A numerical model. <i>Geophysical Research Letters</i> , 1994, 21, 529-532.	4.0	11
34	Bayesian source inference of the 1993-1997 deformation at Mount Etna (Italy) by numerical solutions. <i>Geophysical Journal International</i> , 2009, 177, 806-814.	2.4	11
35	Volcanic deformation and flank instability due to magmatic sources and frictional rheology: the case of Mount Etna. <i>Geophysical Journal International</i> , 0, , .	2.4	9
36	Plate motion and dragging of the upper mantle: Lateral variations of lithospheric thickness and their implications for intraplate deformation. <i>Geophysical Research Letters</i> , 1992, 19, 749-752.	4.0	5

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37	Seismic glitchness at Sos Enattos site: impact on intermediate black hole binaries detection efficiency. <i>European Physical Journal Plus</i> , 2021, 136, 1.	2.6	5
38	Comparison of Deep Learning Techniques for the Investigation of a Seismic Sequence: An Application to the 2019, Mw 4.5 Mugello (Italy) Earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB023405.	3.4	5
39	Mechanical coupling between the Landers and Hector Mine (California) fault systems. <i>Geophysical Research Letters</i> , 2002, 29, 16-1-16-4.	4.0	3
40	Microseismic assessment and fault characterization at the Sulcis (South-Western Sardinia) field laboratory. <i>International Journal of Greenhouse Gas Control</i> , 2020, 95, 102974.	4.6	3
41	Basal drag and laterally varying lithosphere: implications for sea-level fluctuations and intraplate deformation. <i>Global and Planetary Change</i> , 1993, 8, 127-134.	3.5	0
42	Effects of lateral viscosity variations on present-day horizontal motions and baseline deformations due to glacial isostatic adjustment. <i>Physics and Chemistry of the Earth</i> , 1996, 21, 325-330.	0.3	0
43	Viscous drag and lateral viscosity heterogeneities: implications for intraplate deformation. <i>European Journal of Mineralogy</i> , 1993, 5, 1065-1072.	1.3	0
44	Rupture imaging for the 2016 August 24, Mw=6.0 central Italy earthquake, from back-projection of strong-motion array data. <i>Annals of Geophysics</i> , 2016, 59, .	1.0	0