Stefano Lorito

List of Publications by Year
in descending order

59 papers	1,953 citations	236925 25 h-index	265206 42 g-index
86 all docs	86 docs citations	86 times ranked	1635 citing authors

#	Article	IF	Citations
1	Tsunamis: Bayesian Probabilistic Analysis. , 2022, , 91-115.		1
2	Tsunamigenic Major and Great Earthquakes (2004â€“2013): Source Processes Inverted from Seismic, Geodetic, and Sea-Level Data. , 2022, , 247-298.		0
3	The Sensitivity of Tsunami Impact to Earthquake Source Parameters and Manning Friction in High-Resolution Inundation Simulations. Frontiers in Earth Science, 2022, 9, .	1.8	10
4	Tsunami risk communication and management: Contemporary gaps and challenges. International Journal of Disaster Risk Reduction, 2022, 70, 102771.	3.9	19
5	Towards the new Thematic Core Service Tsunami within the EPOS Research Infrastructure. Annals of Geophysics, 2022, 65, DM215.	1.0	2
6	Enabling dynamic and intelligent workflows for HPC, data analytics, and AI convergence. Future Generation Computer Systems, 2022, 134, 414-429.	7.5	17
7	Tsunami risk management for crustal earthquakes and non-seismic sources in Italy. Rivista Del Nuovo Cimento, 2021, 44, 69-144.	5.7	16
8	From Seismic Monitoring to Tsunami Warning in the Mediterranean Sea. Seismological Research Letters, 2021, 92, 1796-1816.	1.9	17
9	The Making of the NEAM Tsunami Hazard Model 2018 (NEAMTHM18). Frontiers in Earth Science, 2021, 8, .	1.8	50
10	Testing Tsunami Inundation Maps for Evacuation Planning in Italy. Frontiers in Earth Science, 2021, 9, .	1.8	16
11	Probabilistic Tsunami Hazard and Risk Analysis: A Review of Research Gaps. Frontiers in Earth Science, 2021, 9, .	1.8	65
12	Tsunami Source of the 2021 <i>M</i>_W 8.1 Raoul Island Earthquake From DART and Tideâ€Gauge Data Inversion. Geophysical Research Letters, 2021, 48, e2021GL094449.	4.0	14
13	Probabilistic tsunami forecasting for early warning. Nature Communications, 2021, 12, 5677.	12.8	37
14	Tsunami hazard, warning, and risk reduction in Italy and the Mediterranean Sea: state of the art, gaps, and future solutions. Turkish Journal of Earth Sciences, 2021, 30, 882-897.	1.0	3
15	Editorial: From Tsunami Science to Hazard and Risk Assessment: Methods and Models. Frontiers in Earth Science, 2021, 9, .	1.8	3
16	Sensitivity of Tsunami Scenarios to Complex Fault Geometry and Heterogeneous Slip Distribution: Caseâ€Studies for SW Iberia and NW Morocco. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022127.	3.4	3
17	The Mediterranean Sea we want. Ocean and Coastal Research, 2021, 69, .	0.6	5
18	Characterization of fault plane and coseismic slip for the 2 May 2020, <i>M</i>_w 6.6 Cretan Passage earthquake from tide gauge tsunami data and moment tensor solutions. Natural Hazards and Earth System Sciences, 2021, 21, 3713-3730.	3.6	3

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19	Effect of Shallow Slip Amplification Uncertainty on Probabilistic Tsunami Hazard Analysis in Subduction Zones: Use of Long-Term Balanced Stochastic Slip Models. Pure and Applied Geophysics, 2020, 177, 1497-1520.	1.9	29
20	Importance of earthquake rupture geometry on tsunami modelling: the Calabrian Arc subduction interface (Italy) case study. Geophysical Journal International, 2020, 223, 1805-1819.	2.4	10
21	Benchmarking the Optimal Time Alignment of Tsunami Waveforms in Nonlinear Joint Inversions for the Mw 8.8 2010 Maule (Chile) Earthquake. Frontiers in Earth Science, 2020, 8, .	1.8	7
22	Probabilistic Tsunami Hazard Analysis: High Performance Computing for Massive Scale Inundation Simulations. Frontiers in Earth Science, 2020, 8, .	1.8	28
23	Fifteen Years of (Major to Great) Tsunamigenic Earthquakes. , 2020, , .		7
24	The 2018 Mw 6.8 Zakynthos (Ionian Sea, Greece) earthquake: seismic source and local tsunami characterization. Geophysical Journal International, 2020, 221, 1043-1054.	2.4	20
25	Global Dissipation Models for Simulating Tsunamis at Far-Field Coasts up to 60 hours Post-Earthquake: Multi-Site Tests in Australia. Frontiers in Earth Science, 2020, 8, .	1.8	4
26	A New Approximate Method for Quantifying Tsunami Maximum Inundation Height Probability. Pure and Applied Geophysics, 2019, 176, 3227-3246.	1.9	34
27	From regional to local SPTHA: efficient computation of probabilistic tsunami inundation maps addressing near-field sources. Natural Hazards and Earth System Sciences, 2019, 19, 455-469.	3.6	34
28	Probabilistic hazard analysis for tsunamis generated by subaqueous volcanic explosions in the Campi Flegrei caldera, Italy. Journal of Volcanology and Geothermal Research, 2019, 379, 106-116.	2.1	18
29	Urgent Tsunami Computing. , 2019, , .		16
30	Wave Interaction of Reverseâ€Fault Rupture With Free Surface: Numerical Analysis of the Dynamic Effects and Fault Opening Induced by Symmetry Breaking. Journal of Geophysical Research: Solid Earth, 2019, 124, 1743-1758.	3.4	10
31	Tsunamis: Bayesian Probabilistic Analysis. , 2019, , 1-25.		0
32	Tsunamigenic earthquake simulations using experimentally derived friction laws. Earth and Planetary Science Letters, 2018, 486, 155-165.	4.4	28
33	A global probabilistic tsunami hazard assessment from earthquake sources. Geological Society Special Publication, 2018, 456, 219-244.	1.3	72
34	Probabilistic Tsunami Hazard Analysis: Multiple Sources and Global Applications. Reviews of Geophysics, 2017, 55, 1158-1198.	23.0	170
35	Tsunamis: Bayesian Probabilistic Analysis. , 2017, , 1-25.		2
36	Fast evaluation of tsunami scenarios: uncertainty assessment for a Mediterranean Sea database. Natural Hazards and Earth System Sciences, 2016, 16, 2593-2602.	3.6	26

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37	Quantification of source uncertainties in Seismic Probabilistic Tsunami Hazard Analysis (SPTHA). Geophysical Journal International, 2016, 205, 1780-1803.	2.4	72
38	Optimal time alignment of tideâ€gauge tsunami waveforms in nonlinear inversions: Application to the 2015 Illapel (Chile) earthquake. Geophysical Research Letters, 2016, 43, 11,226.	4.0	28
39	Shallow slip amplification and enhanced tsunami hazard unravelled by dynamic simulations of mega-thrust earthquakes. Scientific Reports, 2016, 6, 35007.	3.3	36
40	Probabilistic hazard for seismically induced tsunamis: accuracy and feasibility of inundation maps. Geophysical Journal International, 2015, 200, 574-588.	2.4	90
41	Tsunamigenic Major and Great Earthquakes (2004â€“2013): Source Processes Inverted from Seismic, Geodetic, and Sea-Level Data. , 2015, , 1-52.		21
42	Source of the 6 February 2013 <i>M</i>_w = 8.0 Santa Cruz Islands Tsunami. Natural Hazards and Earth System Sciences, 2015, 15, 1371-1379.	3.6	13
43	Appraising the Early-est earthquake monitoring system for tsunami alerting at the Italian Candidate Tsunami Service Provider. Natural Hazards and Earth System Sciences, 2015, 15, 2019-2036.	3.6	16
44	Structural control on the Tohoku earthquake rupture process investigated by 3D FEM, tsunami and geodetic data. Scientific Reports, 2014, 4, 5631.	3.3	72
45	Integrating geologic fault data into tsunami hazard studies. Natural Hazards and Earth System Sciences, 2013, 13, 1025-1050.	3.6	48
46	Clues from joint inversion of tsunami and geodetic data of the 2011 Tohoku-oki earthquake. Scientific Reports, 2012, 2, 385.	3.3	70
47	Limited overlap between the seismic gap and coseismic slip of the great 2010 Chile earthquake. Nature Geoscience, 2011, 4, 173-177.	12.9	256
48	Slip distribution of the 2003 Tokachiâ€oki <i>M</i>_{<i>w</i>} 8.1 earthquake from joint inversion of tsunami waveforms and geodetic data. Journal of Geophysical Research, 2010, 115, .	3.3	30
49	Kinematics and source zone properties of the 2004 Sumatraâ€Andaman earthquake and tsunami: Nonlinear joint inversion of tide gauge, satellite altimetry, and GPS data. Journal of Geophysical Research, 2010, 115, .	3.3	30
50	Wavelet analysis on paleomagnetic (and computer simulated) VGP time series. Annals of Geophysics, 2009, 46, .	1.0	1
51	Scenarios of Earthquake-Generated Tsunamis for the Italian Coast of the Adriatic Sea. Pure and Applied Geophysics, 2008, 165, 2117-2142.	1.9	30
52	Source process of the September 12, 2007, M_W 8.4 southern Sumatra earthquake from tsunami tide gauge record inversion. Geophysical Research Letters, 2008, 35, .	4.0	37
53	Earthquakeâ€generated tsunamis in the Mediterranean Sea: Scenarios of potential threats to Southern Italy. Journal of Geophysical Research, 2008, 113, .	3.3	105
54	Rupture Process of the 18 April 1906 California Earthquake from Near-Field Tsunami Waveform Inversion. Bulletin of the Seismological Society of America, 2008, 98, 832-845.	2.3	13

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55	Scenarios of Earthquake-Generated Tsunamis for the Italian Coast of the Adriatic Sea. , 2008, , 2117-2142.		0
56	Rupture Process of the 2004 Sumatra-Andaman Earthquake from Tsunami Waveform Inversion. Bulletin of the Seismological Society of America, 2007, 97, S223-S231.	2.3	77
57	Stochastic resonance in a bistable geodynamo model. Astronomische Nachrichten, 2005, 326, 227-230.	1.2	9
58	Untangling the Palaeocene climatic rhythm: an astronomically calibrated Early Palaeocene magnetostratigraphy and biostratigraphy at Zumaia (Basque basin, northern Spain). Earth and Planetary Science Letters, 2003, 216, 483-500.	4.4	80
59	Wavelet analysis at orbital time scales in Cretaceous paleomagnetic and lithological data series. Physics and Chemistry of the Earth, 2003, 28, 751-757.	2.9	0