

Stefano Lorito

List of Publications by Year in descending order

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Version: 2024-02-01

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	Limited overlap between the seismic gap and coseismic slip of the great 2010 Chile earthquake. <i>Nature Geoscience</i> , 2011, 4, 173-177.	12.9	256
2	Probabilistic Tsunami Hazard Analysis: Multiple Sources and Global Applications. <i>Reviews of Geophysics</i> , 2017, 55, 1158-1198.	23.0	170
3	Earthquake-generated tsunamis in the Mediterranean Sea: Scenarios of potential threats to Southern Italy. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	105
4	Probabilistic hazard for seismically induced tsunamis: accuracy and feasibility of inundation maps. <i>Geophysical Journal International</i> , 2015, 200, 574-588.	2.4	90
5	Untangling the Palaeocene climatic rhythm: an astronomically calibrated Early Palaeocene magnetostratigraphy and biostratigraphy at Zumaia (Basque basin, northern Spain). <i>Earth and Planetary Science Letters</i> , 2003, 216, 483-500.	4.4	80
6	Rupture Process of the 2004 Sumatra-Andaman Earthquake from Tsunami Waveform Inversion. <i>Bulletin of the Seismological Society of America</i> , 2007, 97, S223-S231.	2.3	77
7	Structural control on the Tohoku earthquake rupture process investigated by 3D FEM, tsunami and geodetic data. <i>Scientific Reports</i> , 2014, 4, 5631.	3.3	72
8	Quantification of source uncertainties in Seismic Probabilistic Tsunami Hazard Analysis (SPTHA). <i>Geophysical Journal International</i> , 2016, 205, 1780-1803.	2.4	72
9	A global probabilistic tsunami hazard assessment from earthquake sources. <i>Geological Society Special Publication</i> , 2018, 456, 219-244.	1.3	72
10	Clues from joint inversion of tsunami and geodetic data of the 2011 Tohoku-oki earthquake. <i>Scientific Reports</i> , 2012, 2, 385.	3.3	70
11	Probabilistic Tsunami Hazard and Risk Analysis: A Review of Research Gaps. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	65
12	The Making of the NEAM Tsunami Hazard Model 2018 (NEAMTHM18). <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	50
13	Integrating geologic fault data into tsunami hazard studies. <i>Natural Hazards and Earth System Sciences</i> , 2013, 13, 1025-1050.	3.6	48
14	Source process of the September 12, 2007, M_w 8.4 southern Sumatra earthquake from tsunami tide gauge record inversion. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	37
15	Probabilistic tsunami forecasting for early warning. <i>Nature Communications</i> , 2021, 12, 5677.	12.8	37
16	Shallow slip amplification and enhanced tsunami hazard unravelled by dynamic simulations of mega-thrust earthquakes. <i>Scientific Reports</i> , 2016, 6, 35007.	3.3	36
17	A New Approximate Method for Quantifying Tsunami Maximum Inundation Height Probability. <i>Pure and Applied Geophysics</i> , 2019, 176, 3227-3246.	1.9	34
18	From regional to local SPTHA: efficient computation of probabilistic tsunami inundation maps addressing near-field sources. <i>Natural Hazards and Earth System Sciences</i> , 2019, 19, 455-469.	3.6	34

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19	Scenarios of Earthquake-Generated Tsunamis for the Italian Coast of the Adriatic Sea. <i>Pure and Applied Geophysics</i> , 2008, 165, 2117-2142.	1.9	30
20	Slip distribution of the 2003 Tokachi-MW 8.1 earthquake from joint inversion of tsunami waveforms and geodetic data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	30
21	Kinematics and source zone properties of the 2004 Sumatra-Andaman earthquake and tsunami: Nonlinear joint inversion of tide gauge, satellite altimetry, and GPS data. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	30
22	Effect of Shallow Slip Amplification Uncertainty on Probabilistic Tsunami Hazard Analysis in Subduction Zones: Use of Long-Term Balanced Stochastic Slip Models. <i>Pure and Applied Geophysics</i> , 2020, 177, 1497-1520.	1.9	29
23	Optimal time alignment of tide-gauge tsunami waveforms in nonlinear inversions: Application to the 2015 Illapel (Chile) earthquake. <i>Geophysical Research Letters</i> , 2016, 43, 11,226.	4.0	28
24	Tsunamigenic earthquake simulations using experimentally derived friction laws. <i>Earth and Planetary Science Letters</i> , 2018, 486, 155-165.	4.4	28
25	Probabilistic Tsunami Hazard Analysis: High Performance Computing for Massive Scale Inundation Simulations. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	28
26	Fast evaluation of tsunami scenarios: uncertainty assessment for a Mediterranean Sea database. <i>Natural Hazards and Earth System Sciences</i> , 2016, 16, 2593-2602.	3.6	26
27	Tsunamigenic Major and Great Earthquakes (2004-2013): Source Processes Inverted from Seismic, Geodetic, and Sea-Level Data. , 2015, , 1-52.		21
28	The 2018 Mw 6.8 Zakyntos (Ionian Sea, Greece) earthquake: seismic source and local tsunami characterization. <i>Geophysical Journal International</i> , 2020, 221, 1043-1054.	2.4	20
29	Tsunami risk communication and management: Contemporary gaps and challenges. <i>International Journal of Disaster Risk Reduction</i> , 2022, 70, 102771.	3.9	19
30	Probabilistic hazard analysis for tsunamis generated by subaqueous volcanic explosions in the Campi Flegrei caldera, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 379, 106-116.	2.1	18
31	From Seismic Monitoring to Tsunami Warning in the Mediterranean Sea. <i>Seismological Research Letters</i> , 2021, 92, 1796-1816.	1.9	17
32	Enabling dynamic and intelligent workflows for HPC, data analytics, and AI convergence. <i>Future Generation Computer Systems</i> , 2022, 134, 414-429.	7.5	17
33	Urgent Tsunami Computing. , 2019, , .		16
34	Tsunami risk management for crustal earthquakes and non-seismic sources in Italy. <i>Rivista Del Nuovo Cimento</i> , 2021, 44, 69-144.	5.7	16
35	Testing Tsunami Inundation Maps for Evacuation Planning in Italy. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	16
36	Appraising the Early-est earthquake monitoring system for tsunami alerting at the Italian Candidate Tsunami Service Provider. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 2019-2036.	3.6	16

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37	Tsunami Source of the 2021 <i>M_w</i> 8.1 Raoul Island Earthquake From DART and Tide-Gauge Data Inversion. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094449.	4.0	14
38	Rupture Process of the 18 April 1906 California Earthquake from Near-Field Tsunami Waveform Inversion. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 832-845.	2.3	13
39	Source of the 6 February 2013 <i>M_w</i> = 8.0 Santa Cruz Islands Tsunami. <i>Natural Hazards and Earth System Sciences</i> , 2015, 15, 1371-1379.	3.6	13
40	Wave Interaction of Reverse-Fault Rupture With Free Surface: Numerical Analysis of the Dynamic Effects and Fault Opening Induced by Symmetry Breaking. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 1743-1758.	3.4	10
41	Importance of earthquake rupture geometry on tsunami modelling: the Calabrian Arc subduction interface (Italy) case study. <i>Geophysical Journal International</i> , 2020, 223, 1805-1819.	2.4	10
42	The Sensitivity of Tsunami Impact to Earthquake Source Parameters and Manning Friction in High-Resolution Inundation Simulations. <i>Frontiers in Earth Science</i> , 2022, 9, .	1.8	10
43	Stochastic resonance in a bistable geodynamo model. <i>Astronomische Nachrichten</i> , 2005, 326, 227-230.	1.2	9
44	Benchmarking the Optimal Time Alignment of Tsunami Waveforms in Nonlinear Joint Inversions for the Mw 8.8 2010 Maule (Chile) Earthquake. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	7
45	Fifteen Years of (Major to Great) Tsunamigenic Earthquakes. , 2020, , .		7
46	The Mediterranean Sea we want. <i>Ocean and Coastal Research</i> , 2021, 69, .	0.6	5
47	Global Dissipation Models for Simulating Tsunamis at Far-Field Coasts up to 60 hours Post-Earthquake: Multi-Site Tests in Australia. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	4
48	Tsunami hazard, warning, and risk reduction in Italy and the Mediterranean Sea: state of the art, gaps, and future solutions. <i>Turkish Journal of Earth Sciences</i> , 2021, 30, 882-897.	1.0	3
49	Editorial: From Tsunami Science to Hazard and Risk Assessment: Methods and Models. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	3
50	Sensitivity of Tsunami Scenarios to Complex Fault Geometry and Heterogeneous Slip Distribution: Case Studies for SW Iberia and NW Morocco. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022127.	3.4	3
51	Characterization of fault plane and coseismic slip for the 2 May 2020, <i>M_w</i> 6.6 Cretan Passage earthquake from tide gauge tsunami data and moment tensor solutions. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 3713-3730.	3.6	3
52	Tsunamis: Bayesian Probabilistic Analysis. , 2017, , 1-25.		2
53	Towards the new Thematic Core Service Tsunami within the EPOS Research Infrastructure. <i>Annals of Geophysics</i> , 2022, 65, DM215.	1.0	2
54	Tsunamis: Bayesian Probabilistic Analysis. , 2022, , 91-115.		1

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55	Wavelet analysis on paleomagnetic (and computer simulated) VGP time series. Annals of Geophysics, 2009, 46, .	1.0	1
56	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
57	Tsunamigenic Major and Great Earthquakes (2004â€“2013): Source Processes Inverted from Seismic, Geodetic, and Sea-Level Data. , 2022, , 247-298.		0
58	Scenarios of Earthquake-Generated Tsunamis for the Italian Coast of the Adriatic Sea. , 2008, , 2117-2142.		0
59	Tsunamis: Bayesian Probabilistic Analysis. , 2019, , 1-25.		0