Alessio Piatanesi

List of Publications by Year
in descending order

69 papers	2,993 citations	159358 30 h-index	168136 53 g-index
73 all docs	73 docs citations	73 times ranked	2509 citing authors

#	Article	IF	Citations
1	Limited overlap between the seismic gap and coseismic slip of the great 2010 Chile earthquake. Nature Geoscience, 2011, 4, 173-177.	5.4	256
2	Rupture history of the 2009 L'Aquila (Italy) earthquake from nonâ€linear joint inversion of strong motion and GPS data. Geophysical Research Letters, 2009, 36, .	1.5	178
3	A Kinematic Source-Time Function Compatible with Earthquake Dynamics. Bulletin of the Seismological Society of America, 2005, 95, 1211-1223.	1.1	156
4	Tsunami threat in the Indian Ocean from a future megathrust earthquake west of Sumatra. Earth and Planetary Science Letters, 2008, 265, 61-81.	1.8	109
5	Very high rate (10 Hz) GPS seismology for moderate-magnitude earthquakes: The case of the<i>M</i>_{<i>w</i>}6.3 L'Aquila (central Italy) event. Journal of Geophysical Research, 2011, 116, .	3.3	106
6	Earthquakeâ€generated tsunamis in the Mediterranean Sea: Scenarios of potential threats to Southern Italy. Journal of Geophysical Research, 2008, 113, .	3.3	105
7	Numerical modelling of tsunami generation and propagation from submarine slumps: the 1998â€ƒPapua New Guinea event. Geophysical Journal International, 2001, 145, 97-111.	1.0	101
8	Probabilistic hazard for seismically induced tsunamis: accuracy and feasibility of inundation maps. Geophysical Journal International, 2015, 200, 574-588.	1.0	90
9	Fast Determination of Moment Tensors and Rupture History: What Has Been Learned from the 6 April 2009 L'Aquila Earthquake Sequence. Seismological Research Letters, 2010, 81, 892-906.	0.8	82
10	The 28 December 1908 Messina Straits Earthquake (MW 7.1): A Great Earthquake throughout a Century of Seismology. Seismological Research Letters, 2009, 80, 243-259.	0.8	80
11	Rupture Process of the 2004 Sumatra-Andaman Earthquake from Tsunami Waveform Inversion. Bulletin of the Seismological Society of America, 2007, 97, S223-S231.	1.1	77
12	A revision of the 1693 eastern Sicily earthquake and tsunami. Journal of Geophysical Research, 1998, 103, 2749-2758.	3.3	75
13	Near-field modeling of the July 17, 1998 tsunami in Papua New Guinea. Geophysical Research Letters, 2000, 27, 3037-3040.	1.5	74
14	Structural control on the Tohoku earthquake rupture process investigated by 3D FEM, tsunami and geodetic data. Scientific Reports, 2014, 4, 5631.	1.6	72
15	Quantification of source uncertainties in Seismic Probabilistic Tsunami Hazard Analysis (SPTHA). Geophysical Journal International, 2016, 205, 1780-1803.	1.0	72
16	Clues from joint inversion of tsunami and geodetic data of the 2011 Tohoku-oki earthquake. Scientific Reports, 2012, 2, 385.	1.6	70
17	Far-field simulation of tsunami propagation in the Pacific Ocean: Impact on the Marquesas Islands (French Polynesia). Journal of Geophysical Research, 2001, 106, 9161-9177.	3.3	64
18	A global search inversion for earthquake kinematic rupture history: Application to the 2000 western Tottori, Japan earthquake. Journal of Geophysical Research, 2007, 112, .	3.3	63

#	ARTICLE	IF	CITATIONS
19	The slip distribution of the 1992 Nicaragua Earthquake from tsunami run-up data. Geophysical Research Letters, 1996, 23, 37-40.	1.5	60
20	Complexity of the rupture process during the 2009 Lâ€™Aquila, Italy, earthquake. Geophysical Journal International, 2012, 190, 607-621.	1.0	60
21	An energy-duration procedure for rapid determination of earthquake magnitude and tsunamigenic potential. Geophysical Journal International, 2007, 170, 1195-1209.	1.0	49
22	Dependence of slip weakening distance (Dc) on final slip during dynamic rupture of earthquakes. Geophysical Journal International, 2009, 177, 1205-1220.	1.0	48
23	Integrating geologic fault data into tsunami hazard studies. Natural Hazards and Earth System Sciences, 2013, 13, 1025-1050.	1.5	48
24	Tsunami detection by satellite altimetry. Journal of Geophysical Research, 1999, 104, 599-615.	3.3	46
25	The dependence of traction evolution on the earthquake source time function adopted in kinematic rupture models. Geophysical Research Letters, 2004, 31, .	1.5	39
26	Numerical simulations of the tsunami induced by the 1627 earthquake affecting Gargano, Southern Italy. Journal of Geodynamics, 1996, 21, 141-160.	0.7	37
27	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, .	1.5	37
28	Probabilistic tsunami forecasting for early warning. Nature Communications, 2021, 12, 5677.	5.8	37
29	Estimates of slip weakening distance for different dynamic rupture models. Geophysical Research Letters, 2004, 31, .	1.5	35
30	Rupture process of the 2007 Niigata-ken Chuetsu-oki earthquake by non-linear joint inversion of strong motion and GPS data. Geophysical Research Letters, 2008, 35, .	1.5	31
31	Scenarios of Earthquake-Generated Tsunamis for the Italian Coast of the Adriatic Sea. Pure and Applied Geophysics, 2008, 165, 2117-2142.	0.8	30
32	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
33	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
34	Numerical modelling of the September 8, 1905 Calabrian (southern Italy) tsunami. Geophysical Journal International, 2002, 150, 271-284.	1.0	29
35	Chapter 7 Scaling of Slip Weakening Distance with Final Slip during Dynamic Earthquake Rupture. International Geophysics, 2009, 94, 163-186.	0.6	29
36	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.	0.8	29

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37	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.	1.5	28
38	Tsunamigenic earthquake simulations using experimentally derived friction laws. Earth and Planetary Science Letters, 2018, 486, 155-165.	1.8	28
39	Finite-element simulations of the 28 december 1908 Messina Straits (Southern Italy) tsunami. Physics and Chemistry of the Earth, 1999, 24, 145-150.	0.6	27
40	Identification of the source fault of the 1908 Messina earthquake through tsunami modelling. Is it a possible task?. Physics and Chemistry of the Earth, 1999, 24, 417-421.	0.3	26
41	Fast evaluation of tsunami scenarios: uncertainty assessment for a Mediterranean Sea database. Natural Hazards and Earth System Sciences, 2016, 16, 2593-2602.	1.5	26
42	Simulation of tsunamis induced by volcanic activity in the Gulf of Naples (Italy). Natural Hazards and Earth System Sciences, 2003, 3, 311-320.	1.5	25
43	Tsunami waveform inversion by numerical finite-elements Greenâ€™s functions. Natural Hazards and Earth System Sciences, 2001, 1, 187-194.	1.5	24
44	Numerical modeling of the September 13, 1999 landslide and tsunami on Fatu Hiva Island (French) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50	1.5	24
45	Nearâ€field propagation of tsunamis from megathrust earthquakes. Geophysical Research Letters, 2007, 34, .	1.5	21
46	Rupture Kinematics and Structuralâ€Rheological Control of the 2016 M w 6.1 Amatrice (Central Italy) Earthquake From Joint Inversion of Seismic and Geodetic Data. Geophysical Research Letters, 2018, 45, 12,302-12,311.	1.5	20
47	The 2018 Mw 6.8 Zakynthos (Ionian Sea, Greece) earthquake: seismic source and local tsunami characterization. Geophysical Journal International, 2020, 221, 1043-1054.	1.0	20
48	Near-source high-rate GPS, strong motion and InSAR observations to image the 2015 Lefkada (Greece) Earthquake rupture history. Scientific Reports, 2017, 7, 10358.	1.6	18
49	From Seismic Monitoring to Tsunami Warning in the Mediterranean Sea. Seismological Research Letters, 2021, 92, 1796-1816.	0.8	17
50	Tsunami risk management for crustal earthquakes and non-seismic sources in Italy. Rivista Del Nuovo Cimento, 2021, 44, 69-144.	2.0	16
51	Testing Tsunami Inundation Maps for Evacuation Planning in Italy. Frontiers in Earth Science, 2021, 9, .	0.8	16
52	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.	1.5	16
53	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.	1.5	14
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.	1.1	13

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55	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.	1.5	13
56	The finite-element wave propagator approach and the tsunami inversion problem. Physics and Chemistry of the Earth, 1996, 21, 27-32.	0.3	10
57	Finite-element simulations of the 5 February 1783 Calabrian tsunami. Physics and Chemistry of the Earth, 1996, 21, 39-43.	0.3	9
58	Tsunami detection by satellite altimetry. Journal of Geophysical Research, 1999, 104, 599-616.	3.3	8
59	The October 4, 1994 Shikotan (Kurile Islands) Tsunamigenic Earthquake: An Open Problem on the Source Mechanism. Pure and Applied Geophysics, 1999, 154, 555-574.	0.8	7
60	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, .	0.8	7
61	Fifteen Years of (Major to Great) Tsunamigenic Earthquakes. , 2020, , .		7
62	Wave propagator in finiteâ€element modeling of tsunamis. Marine Geodesy, 1995, 18, 273-298.	0.9	4
63	Reply to "Comment on `The 28 December 1908 Messina Straits Earthquake (Mw 7.1): A Great Earthquake throughout a Century of Seismology,' by N. A. Pino, A. Piatanesi, G. Valensise, and E. Boschi" by A. Amoruso, L. Crescentini, and R. Scarpa. Seismological Research Letters, 2010, 81, 229-231.	0.8	4
64	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.	1.4	3
65	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.	1.5	3
66	Numerical Simulations of the 1627 Gargano Tsunami (Southern Italy) to Locate the Earthquake Source. Advances in Natural and Technological Hazards Research, 1997, , 115-131.	1.1	2
67	A first appraisal of the seismogenic and tsunamigenic potential of the largest fault systems in the westernmost Mediterranean. Marine Geology, 2022, 445, 106749.	0.9	1
68	Scenarios of Earthquake-Generated Tsunamis for the Italian Coast of the Adriatic Sea. , 2008, , 2117-2142.		0
69	The October 4, 1994 Shikotan (Kurile Islands) Tsunamigenic Earthquake: An Open Problem on the Source Mechanism. , 1999, , 555-574.		0