Gaetano Festa

List of Publications by Year
in descending order

58 papers	**1,817** citations	279798 **23** h-index
66 all docs	**66** docs citations	**66** times ranked

276875 **41** g-index

1720 citing authors

#	ARTICLE	IF	CITATIONS
1	The Newmark scheme as velocity-stress time-staggering: an efficient PML implementation for spectral element simulations of elastodynamics. Geophysical Journal International, 2005, 161, 789-812.	2.4	156
2	Spectral-element analysis in seismology. Advances in Geophysics, 2007, , 365-419.	2.8	140
3	Earthquake early warning system in southern Italy: Methodologies and performance evaluation. Geophysical Research Letters, 2009, 36, .	4.0	124
4	The Earthquakeâ€Source Inversion Validation (SIV) Project. Seismological Research Letters, 2016, 87, 690-708.	1.9	96
5	PML Absorbing Boundaries. Bulletin of the Seismological Society of America, 2003, 93, 891-903.	2.3	91
6	Earthquake magnitude estimation from early radiated energy. Geophysical Research Letters, 2008, 35, .	4.0	66
7	Evidence for a difference in rupture initiation between small and large earthquakes. Nature Communications, 2014, 5, 3958.	12.8	66
8	Early magnitude and potential damage zone estimates for the great Mw 9 Tohokuâ€Oki earthquake. Geophysical Research Letters, 2012, 39, .	4.0	58
9	Interaction between surface waves and absorbing boundaries for wave propagation in geological basins: 2D numerical simulations. Geophysical Research Letters, 2005, 32, .	4.0	57
10	Influence of the rupture initiation on the intersonic transition: Crack-like versus pulse-like modes. Geophysical Research Letters, 2006, 33, .	4.0	56
11	A prototype system for earthquake early-warning and alert management in southern Italy. Bulletin of Earthquake Engineering, 2010, 8, 1105-1129.	4.1	52
12	Multidisciplinary inferences on a newly recognized active eastâ€dipping extensional system in Central Italy. Terra Nova, 2017, 29, 77-89.	2.1	46
13	A <i>P</i> waveâ€based, onâ€site method for earthquake early warning. Geophysical Research Letters, 2015, 42, 1390-1398.	4.0	44
14	Twin ruptures grew to build up the giant 2011 Tohoku, Japan, earthquake. Scientific Reports, 2012, 2, 709.	3.3	41
15	Anatomy of a microearthquake sequence on an active normal fault. Scientific Reports, 2012, 2, 410.	3.3	40
16	A Local Magnitude Scale for Southern Italy. Bulletin of the Seismological Society of America, 2009, 99, 2461-2470.	2.3	38
17	Shallow slip amplification and enhanced tsunami hazard unravelled by dynamic simulations of mega-thrust earthquakes. Scientific Reports, 2016, 6, 35007.	3.3	36
18	Performance of Earthquake Early Warning Systems during the 2016â€"2017 MwÂ5â€"6.5 Central Italy Sequence. Seismological Research Letters, 2018, 89, 1-12.	1.9	36

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19	Physics-based seismic input for engineering applications: a case study in the Aterno river valley, Central Italy. Bulletin of Earthquake Engineering, 2017, 15, 2645-2671.	4.1	35
20	3D ultra-high resolution seismic imaging of shallow Solfatara crater in Campi Flegrei (Italy): New insights on deep hydrothermal fluid circulation processes. Scientific Reports, 2017, 7, 3412.	3.3	35
21	Ground‐Motion Prediction Equations for South Korea Peninsula. Bulletin of the Seismological Society of America, 2015, 105, 2625-2640.	2.3	30
22	Self-similarity of low-frequency earthquakes. Scientific Reports, 2020, 10, 6523.	3.3	30
23	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
24	Tsunamigenic earthquake simulations using experimentally derived friction laws. Earth and Planetary Science Letters, 2018, 486, 155-165.	4.4	28
25	Detecting long-lasting transients of earthquake activity on a fault system by monitoring apparent stress, ground motion and clustering. Scientific Reports, 2019, 9, 16268.	3.3	25
26	An Integrated Regional and On-Site Earthquake Early Warning System for Southern Italy: Concepts, Methodologies and Performances. Advanced Technologies in Earth Sciences, 2014, , 117-137.	0.9	24
27	Seismic Ambient Noise Analysis in Southern Italy. Bulletin of the Seismological Society of America, 2012, 102, 574-586.	2.3	22
28	The September 27, 2012, ML 4.1, Benevento earthquake: A case of strike-slip faulting in Southern Apennines (Italy). Tectonophysics, 2015, 660, 35-46.	2.2	22
29	The Effectiveness of a Distant Accelerometer Array to Compute Seismic Source Parameters: The April 2009 L'Aquila Earthquake Case History. Bulletin of the Seismological Society of America, 2011, 101, 354-365.	2.3	20
30	Fault slip and rupture velocity inversion by isochrone backprojection. Geophysical Journal International, 2006, 166, 745-756.	2.4	19
31	The shallow structure of Solfatara Volcano, Italy, revealed by dense, wide-aperture seismic profiling. Scientific Reports, 2017, 7, 17386.	3.3	19
32	Integrated tomographic methods for seismic imaging and monitoring of volcanic caldera structures and geothermal areas. Journal of Applied Geophysics, 2018, 156, 16-30.	2.1	19
33	Earthquake early warning feasibility in the Campania region (southern Italy) and demonstration system for public school buildings. Bulletin of Earthquake Engineering, 2016, 14, 2513-2529.	4.1	17
34	A probabilistic method for the estimation of earthquake source parameters from spectral inversion: application to the 2016–2017 Central Italy seismic sequence. Geophysical Journal International, 2019, 218, 988-1007.	2.4	17
35	Insights into Mechanical Properties of the 1980 Irpinia Fault System from the Analysis of a Seismic Sequence. Geosciences (Switzerland), 2021, 11, 28.	2.2	16
36	A strongly heterogeneous hydrothermal area imaged by surface waves: the case of Solfatara, Campi Flegrei, Italy. Geophysical Journal International, 2016, 205, 1813-1822.	2.4	15

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37	Kinematic Inversion of Strong-Motion Data Using a Gaussian Parameterization for the Slip: Application to the 2008 Iwate-Miyagi, Japan, Earthquake. Bulletin of the Seismological Society of America, 2012, 102, 2685-2703.	2.3	14
38	Broad-band strong motion simulations coupling k-square kinematic source models with empirical Green's functions: the 2009 L'Aquila earthquake. Geophysical Journal International, 2015, 203, 720-736.	2.4	14
39	Low shear velocity in a normal fault system imaged by ambient noise cross correlation: The case of the Irpinia fault zone, Southern Italy. Journal of Geophysical Research: Solid Earth, 2016, 121, 4290-4305.	3.4	14
40	Damage detection in elastic properties of masonry bridges using coda wave interferometry. Structural Control and Health Monitoring, 2017, 24, e1976.	4.0	14
41	Early rupture signals predict the final earthquake size. Geophysical Journal International, 2020, 223, 692-706.	2.4	14
42	Spatiotemporal Evolution of Microseismicity Seismic Source Properties at the Irpinia Near-Fault Observatory, Southern Italy. Bulletin of the Seismological Society of America, 0, , .	2.3	12
43	Relation Between Near‐Fault Ground Motion Impulsive Signals and Source Parameters. Journal of Geophysical Research: Solid Earth, 2018, 123, 7707-7721.	3.4	10
44	Wave Interaction of Reverse‐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
45	Perspectives for the radiography of Mt. Vesuvius by cosmic ray muons. Earth, Planets and Space, 2010, 62, 131-137.	2.5	8
46	Near-Fault Broadband Ground Motion Simulations Using Empirical Green's Functions: Application to the Upper Rhine Graben (France–Germany) Case Study. Pure and Applied Geophysics, 2017, 174, 3479-3501.	1.9	7
47	Simulation of Earthquake Ground Motion and Effects on Engineering Structures during the Preeruptive Phase of an Active Volcano. Bulletin of the Seismological Society of America, 2004, 94, 2213-2221.	2.3	5
48	The MU-RAY project: Summary of the round-table discussions. Earth, Planets and Space, 2010, 62, 145-151.	2.5	5
49	Rupture dynamics along bimaterial interfaces: a parametric study of the shear-normal traction coupling. Geophysical Journal International, 0, , ggw489.	2.4	5
50	High Resolution Attenuation Images From Active Seismic Data: The Case Study of Solfatara Volcano (Southern Italy). Frontiers in Earth Science, 2019, 7, .	1.8	5
51	Insight Into the Wave Scattering Properties of the Solfatara Volcano, Campi Flegrei, Italy. Frontiers in Earth Science, 2019, 7, .	1.8	4
52	Near-Fault Broadband Ground Motion Simulations Using Empirical Green's Functions: Application to the Upper Rhine Graben (France–Germany) Case Study. Pageoph Topical Volumes, 2018, , 155-177.	0.2	4
53	Monitoring the Microseismicity through a Dense Seismic Array and a Similarity Search Detection Technique: Application to the Seismic Monitoring of Collalto Gas-Storage, North Italy. Energies, 2022, 15, 3504.	3.1	4
54	Source Characterization for Earthquake Early Warning. , 2014, , 1-21.		2

#	Article	IF	Citations
55	Earthquake Seismology. , 2021, , 575-586.		1
56	Editorial: Multidisciplinary Geophysical Imaging of Volcanoes. Frontiers in Earth Science, 2020, 8, .	1.8	0
57	Analysis of seismic noise to check the mechanical isolation of a medical device. Annals of Geophysics, 2011, 54, .	1.0	0
58	Source Characterization for Earthquake Early Warning. , 2015, , 3327-3346.		0