

Gaetano Festa

List of Publications by Year in descending order

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58
papers

1,817
citations

279798

23
h-index

276875

41
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66
all docs

66
docs citations

66
times ranked

1720
citing authors

#	ARTICLE	IF	CITATIONS
1	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. <i>Energies</i> , 2022, 15, 3504.	3.1	4
2	<i>Earthquake Seismology.</i> , 2021, , 575-586.		1
3	Insights into Mechanical Properties of the 1980 Irpinia Fault System from the Analysis of a Seismic Sequence. <i>Geosciences (Switzerland)</i> , 2021, 11, 28.	2.2	16
4	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
5	Early rupture signals predict the final earthquake size. <i>Geophysical Journal International</i> , 2020, 223, 692-706.	2.4	14
6	Editorial: Multidisciplinary Geophysical Imaging of Volcanoes. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	0
7	Self-similarity of low-frequency earthquakes. <i>Scientific Reports</i> , 2020, 10, 6523.	3.3	30
8	Detecting long-lasting transients of earthquake activity on a fault system by monitoring apparent stress, ground motion and clustering. <i>Scientific Reports</i> , 2019, 9, 16268.	3.3	25
9	A probabilistic method for the estimation of earthquake source parameters from spectral inversion: application to the 2016â€“2017 Central Italy seismic sequence. <i>Geophysical Journal International</i> , 2019, 218, 988-1007.	2.4	17
10	High Resolution Attenuation Images From Active Seismic Data: The Case Study of Solfatara Volcano (Southern Italy). <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	5
11	Insight Into the Wave Scattering Properties of the Solfatara Volcano, Campi Flegrei, Italy. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	4
12	Wave Interaction of Reverseâ€“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
13	Tsunamigenic earthquake simulations using experimentally derived friction laws. <i>Earth and Planetary Science Letters</i> , 2018, 486, 155-165.	4.4	28
14	Integrated tomographic methods for seismic imaging and monitoring of volcanic caldera structures and geothermal areas. <i>Journal of Applied Geophysics</i> , 2018, 156, 16-30.	2.1	19
15	Performance of Earthquake Early Warning Systems during the 2016â€“2017 Mwâˆ“6.5 Central Italy Sequence. <i>Seismological Research Letters</i> , 2018, 89, 1-12.	1.9	36
16	Relation Between Nearâ€“Fault Ground Motion Impulsive Signals and Source Parameters. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7707-7721.	3.4	10
17	Near-Fault Broadband Ground Motion Simulations Using Empirical Greenâ€“s Functions: Application to the Upper Rhine Graben (Franceâ€“Germany) Case Study. <i>Pageoph Topical Volumes</i> , 2018, , 155-177.	0.2	4
18	Damage detection in elastic properties of masonry bridges using coda wave interferometry. <i>Structural Control and Health Monitoring</i> , 2017, 24, e1976.	4.0	14

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19	Physics-based seismic input for engineering applications: a case study in the Aterno river valley, Central Italy. <i>Bulletin of Earthquake Engineering</i> , 2017, 15, 2645-2671.	4.1	35
20	Multidisciplinary inferences on a newly recognized active east-dipping extensional system in Central Italy. <i>Terra Nova</i> , 2017, 29, 77-89.	2.1	46
21	Near-Fault Broadband Ground Motion Simulations Using Empirical Green's Functions: Application to the Upper Rhine Graben (France-Germany) Case Study. <i>Pure and Applied Geophysics</i> , 2017, 174, 3479-3501.	1.9	7
22	3D ultra-high resolution seismic imaging of shallow Solfatara crater in Campi Flegrei (Italy): New insights on deep hydrothermal fluid circulation processes. <i>Scientific Reports</i> , 2017, 7, 3412.	3.3	35
23	The shallow structure of Solfatara Volcano, Italy, revealed by dense, wide-aperture seismic profiling. <i>Scientific Reports</i> , 2017, 7, 17386.	3.3	19
24	The Earthquake-Source Inversion Validation (SIV) Project. <i>Seismological Research Letters</i> , 2016, 87, 690-708.	1.9	96
25	A strongly heterogeneous hydrothermal area imaged by surface waves: the case of Solfatara, Campi Flegrei, Italy. <i>Geophysical Journal International</i> , 2016, 205, 1813-1822.	2.4	15
26	Low shear velocity in a normal fault system imaged by ambient noise cross correlation: The case of the Irpinia fault zone, Southern Italy. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 4290-4305.	3.4	14
27	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
28	Earthquake early warning feasibility in the Campania region (southern Italy) and demonstration system for public school buildings. <i>Bulletin of Earthquake Engineering</i> , 2016, 14, 2513-2529.	4.1	17
29	A <i>P</i> -wave-based, on-site method for earthquake early warning. <i>Geophysical Research Letters</i> , 2015, 42, 1390-1398.	4.0	44
30	The September 27, 2012, ML 4.1, Benevento earthquake: A case of strike-slip faulting in Southern Apennines (Italy). <i>Tectonophysics</i> , 2015, 660, 35-46.	2.2	22
31	Broad-band strong motion simulations coupling <i>k</i> -square kinematic source models with empirical Green's functions: the 2009 L'Aquila earthquake. <i>Geophysical Journal International</i> , 2015, 203, 720-736.	2.4	14
32	Ground-Motion Prediction Equations for South Korea Peninsula. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 2625-2640.	2.3	30
33	Source Characterization for Earthquake Early Warning. , 2015, , 3327-3346.		0
34	Evidence for a difference in rupture initiation between small and large earthquakes. <i>Nature Communications</i> , 2014, 5, 3958.	12.8	66
35	An Integrated Regional and On-Site Earthquake Early Warning System for Southern Italy: Concepts, Methodologies and Performances. <i>Advanced Technologies in Earth Sciences</i> , 2014, , 117-137.	0.9	24
36	Source Characterization for Earthquake Early Warning. , 2014, , 1-21.		2

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37	Anatomy of a microearthquake sequence on an active normal fault. <i>Scientific Reports</i> , 2012, 2, 410.	3.3	40
38	Twin ruptures grew to build up the giant 2011 Tohoku, Japan, earthquake. <i>Scientific Reports</i> , 2012, 2, 709.	3.3	41
39	Kinematic Inversion of Strong-Motion Data Using a Gaussian Parameterization for the Slip: Application to the 2008 Iwate-Miyagi, Japan, Earthquake. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 2685-2703.	2.3	14
40	Seismic Ambient Noise Analysis in Southern Italy. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 574-586.	2.3	22
41	Early magnitude and potential damage zone estimates for the great Mw 9 Tohoku-Oki earthquake. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	58
42	The Effectiveness of a Distant Accelerometer Array to Compute Seismic Source Parameters: The April 2009 L'Aquila Earthquake Case History. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 354-365.	2.3	20
43	Analysis of seismic noise to check the mechanical isolation of a medical device. <i>Annals of Geophysics</i> , 2011, 54, .	1.0	0
44	A prototype system for earthquake early-warning and alert management in southern Italy. <i>Bulletin of Earthquake Engineering</i> , 2010, 8, 1105-1129.	4.1	52
45	The MU-RAY project: Summary of the round-table discussions. <i>Earth, Planets and Space</i> , 2010, 62, 145-151.	2.5	5
46	Perspectives for the radiography of Mt. Vesuvius by cosmic ray muons. <i>Earth, Planets and Space</i> , 2010, 62, 131-137.	2.5	8
47	Earthquake early warning system in southern Italy: Methodologies and performance evaluation. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	124
48	A Local Magnitude Scale for Southern Italy. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 2461-2470.	2.3	38
49	Earthquake magnitude estimation from early radiated energy. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	66
50	Spectral-element analysis in seismology. <i>Advances in Geophysics</i> , 2007, , 365-419.	2.8	140
51	Influence of the rupture initiation on the intersonic transition: Crack-like versus pulse-like modes. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	56
52	Fault slip and rupture velocity inversion by isochrone backprojection. <i>Geophysical Journal International</i> , 2006, 166, 745-756.	2.4	19
53	The Newmark scheme as velocity-stress time-staggering: an efficient PML implementation for spectral element simulations of elastodynamics. <i>Geophysical Journal International</i> , 2005, 161, 789-812.	2.4	156
54	Interaction between surface waves and absorbing boundaries for wave propagation in geological basins: 2D numerical simulations. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	57

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55	Simulation of Earthquake Ground Motion and Effects on Engineering Structures during the Preruptive Phase of an Active Volcano. Bulletin of the Seismological Society of America, 2004, 94, 2213-2221.	2.3	5
56	PML Absorbing Boundaries. Bulletin of the Seismological Society of America, 2003, 93, 891-903.	2.3	91
57	Rupture dynamics along bimaterial interfaces: a parametric study of the shear-normal traction coupling. Geophysical Journal International, 0, , ggw489.	2.4	5
58	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