Matteo Picozzi

List of Publications by Year in descending order

80 papers	2,448 citations	201385 27 h-index	233125 45 g-index
86 all docs	86 docs citations	86 times ranked	1967 citing authors

#	Article	IF	Citations
1	The 2017 Ischia Earthquake (Southern Italy): Source Mechanism and Rupture Model From the Inversion of a Near-Source Strong Motion Record. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-10.	2.7	2
2	Temporal Evolution of Radiated Energy to Seismic Moment Scaling During the Preparatory Phase of the Mw 6.1, 2009 Lâ€™Aquila Earthquake (Italy). Geophysical Research Letters, 2022, 49, .	1.5	10
3	Spatiotemporal Evolution of Ground-Motion Intensity at the Irpinia Near-Fault Observatory, Southern Italy. Bulletin of the Seismological Society of America, 2022, 112, 243-261.	1.1	6
4	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.	1.6	4
5	Earthquake Seismology. , 2021, , 575-586.		1
6	Forecasting the Preparatory Phase of Induced Earthquakes by Recurrent Neural Network. Forecasting, 2021, 3, 17-36.	1.6	15
7	Insights into Mechanical Properties of the 1980 Irpinia Fault System from the Analysis of a Seismic Sequence. Geosciences (Switzerland), 2021, 11, 28.	1.0	16
8	The RAMONES Service for Rapid Assessment of Seismic Moment and Radiated Energy in Central Italy: Concepts, Capabilities, and Future Perspectives. Seismological Research Letters, 2021, 92, 1759-1772.	0.8	12
9	Earthquake Early Warning System for Structural Drift Prediction Using Machine Learning and Linear Regressors. Frontiers in Earth Science, 2021, 9, .	0.8	10
10	Seismic networks layout optimization for a high-resolution monitoring of induced micro-seismicity. Journal of Seismology, 2020, 24, 953-966.	0.6	15
11	Reliability of Source Parameters for Small Events in Central Italy: Insights from Spectral Decomposition Analysis Applied to Both Synthetic and Real Data. Bulletin of the Seismological Society of America, 2020, 110, 3139-3157.	1.1	28
12	An application of coherence-based method for earthquake detection and microseismic monitoring (Irpinia fault system, Southern Italy). Journal of Seismology, 2020, 24, 979-989.	0.6	7
13	Detection of weak seismic sequences based on arrival time coherence and empiric network detectability: an application at a near fault observatory. Geophysical Journal International, 2019, 218, 2054-2065.	1.0	18
14	Detecting long-lasting transients of earthquake activity on a fault system by monitoring apparent stress, ground motion and clustering. Scientific Reports, 2019, 9, 16268.	1.6	25
15	Source parameter analysis of microearthquakes recorded around the underground gas storage in the Montello-Collalto Area (Southeastern Alps, Italy). Tectonophysics, 2019, 762, 159-168.	0.9	16
16	Impact of Magnitude Selection on Aleatory Variability Associated with Groundâ€Motion Prediction Equations: Part Iâ€”Analysis of the Betweenâ€Event Distribution in Central Italy. Bulletin of the Seismological Society of America, 2019, 109, 251-262.	1.1	25
17	SHEER â€œsmartâ€•database: technical note. Acta Geophysica, 2019, 67, 291-297.	1.0	1
18	On-site earthquake early warning: a partially non-ergodic perspective from the site effects point of view. Geophysical Journal International, 2019, 216, 919-934.	1.0	16

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19	Moment and energy magnitudes: diversity of views on earthquake shaking potential and earthquake statistics. Geophysical Journal International, 2019, 216, 1245-1259.	1.0	15
20	Impact of Magnitude Selection on Aleatory Variability Associated with Groundâ€Motion Prediction Equations: Part Iâ€"Local, Energy, and Moment Magnitude Calibration and Stressâ€Drop Variability in Central Italy. Bulletin of the Seismological Society of America, 2018, 108, 1427-1442.	1.1	31
21	Performance of Earthquake Early Warning Systems during the 2016â€"2017 MwÂ5â€"6.5 Central Italy Sequence. Seismological Research Letters, 2018, 89, 1-12.	0.8	36
22	Temporal Variability of Ground Shaking and Stress Drop in Central Italy: A Hint for Fault Healing?. Bulletin of the Seismological Society of America, 2018, 108, 1853-1863.	1.1	20
23	Feasibility study of a loss-driven earthquake early warning and rapid response systems for tunnels of the Italian high-speed railway network. Soil Dynamics and Earthquake Engineering, 2018, 112, 232-242.	1.9	22
24	A rapid response magnitude scale for timely assessment of the high frequency seismic radiation. Scientific Reports, 2018, 8, 8562.	1.6	12
25	An onâ€site alert level early warning system for Italy. Journal of Geophysical Research: Solid Earth, 2017, 122, 2106-2118.	1.4	30
26	Rapid determination of P waveâ€based energy magnitude: Insights on source parameter scaling of the 2016 Central Italy earthquake sequence. Geophysical Research Letters, 2017, 44, 4036-4045.	1.5	22
27	Accurate estimation of seismic source parameters of induced seismicity by a combined approach of generalized inversion and genetic algorithm: Application to The Geysers geothermal area, California. Journal of Geophysical Research: Solid Earth, 2017, 122, 3916-3933.	1.4	31
28	A cross-border regional earthquake early warning system: PRESTo@CE3RN. Natural Hazards, 2017, 86, 431-440.	1.6	4
29	Realâ€time detection, location, and characterization of rockslides using broadband regional seismic networks. Geophysical Research Letters, 2016, 43, 6960-6967.	1.5	56
30	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.	2.3	17
31	Characterization of mass movements in the Italian Alps using regional seismic networks. , 2016, , 771-780.		2
32	Predicting the macroseismic intensity from early radiated P wave energy for onâ€site earthquake early warning in Italy. Journal of Geophysical Research: Solid Earth, 2015, 120, 7174-7189.	1.4	17
33	Exploring the feasibility of a nationwide earthquake early warning system in Italy. Journal of Geophysical Research: Solid Earth, 2015, 120, 2446-2465.	1.4	40
34	Earthquake Early Warning System for Schools: A Feasibility Study in Southern Italy. Seismological Research Letters, 2015, 86, 398-412.	0.8	27
35	A Threshold-Based Earthquake Early-Warning System for Offshore Events in Southern Iberia. Pure and Applied Geophysics, 2015, 172, 2467-2480.	0.8	7
36	Applications of a Low-Cost, Wireless, Self-Organising System (SOSEWIN) to Earthquake Early Warning and Structural Health Monitoring. Advanced Technologies in Earth Sciences, 2014, , 263-288.	0.9	3

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37	Evidence for a difference in rupture initiation between small and large earthquakes. Nature Communications, 2014, 5, 3958.	5.8	66
38	Late Quaternary tectonics in the inner Northern Apennines (Siena Basin, southern Tuscany, Italy) and their seismotectonic implication. Journal of Geodynamics, 2014, 76, 25-45.	0.7	33
39	Spatio-temporal variability of seismic noise above a geothermal reservoir. Journal of Applied Geophysics, 2014, 106, 128-138.	0.9	2
40	EDIM: Earthquake Disaster Information System for the Marmara Region, Turkey. Advanced Technologies in Earth Sciences, 2014, , 103-116.	0.9	5
41	Real-time risk assessment in seismic early warning and rapid response: a feasibility study in Bishkek (Kyrgyzstan). Journal of Seismology, 2013, 17, 485-505.	0.6	28
42	Topographic versus stratigraphic amplification: mismatch between code provisions and observations during the Lâ€™Aquila (Italy, 2009) sequence. Bulletin of Earthquake Engineering, 2013, 11, 1325-1336.	2.3	31
43	Structural Health Monitoring Using Wireless Technologies: An Ambient Vibration Test on the Adolphe Bridge, Luxembourg City. Advances in Civil Engineering, 2012, 2012, 1-17.	0.4	10
44	Monitoring the structural dynamic response of a masonry tower: comparing classical and time-frequency analyses. Bulletin of Earthquake Engineering, 2012, 10, 1221-1235.	2.3	34
45	Three-dimensional shear wave velocity imaging by ambient seismic noise tomography. Geophysical Journal International, 2012, 189, 501-512.	1.0	44
46	A wireless mesh sensing network for early warning. Journal of Network and Computer Applications, 2012, 35, 538-547.	5.8	28
47	An attempt of real-time structural response assessment by an interferometric approach: A tailor-made earthquake early warning for buildings. Soil Dynamics and Earthquake Engineering, 2012, 38, 109-118.	1.9	17
48	Shallow geology characterization using Rayleigh and Love wave dispersion curves derived from seismic noise array measurements. Journal of Applied Geophysics, 2011, 75, 345-354.	0.9	40
49	Evaluation of proxies for seismic site conditions in large urban areas: The example of Santiago de Chile. Physics and Chemistry of the Earth, 2011, 36, 1259-1266.	1.2	2
50	Interpretation of microtremor 2D array data using Rayleigh and Love waves: the case study of Bevagna (central Italy). Near Surface Geophysics, 2011, 9, 529-540.	0.6	6
51	Interferometric Analysis of Strong Ground Motion for Structural Health Monitoring: The Example of the L'Aquila, Italy, Seismic Sequence of 2009. Bulletin of the Seismological Society of America, 2011, 101, 635-651.	1.1	40
52	Application of Surface-Wave Methods for Seismic Site Characterization. Surveys in Geophysics, 2011, 32, 777-825.	2.1	180
53	A generalized zero-lag cross-correlation approach for Rapid Earthquake Localization (REL): the example of the Istanbul Megacity Rapid Response System. Journal of Seismology, 2011, 15, 557-578.	0.6	1
54	Far field damage on RC buildings: the case study of Navelli during the Lâ€™Aquila (Italy) seismic sequence, 2009. Bulletin of Earthquake Engineering, 2011, 9, 263-283.	2.3	41

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55	Evaluation of site effects in the Aterno river valley (Central Italy) from aftershocks of the 2009 Lâ€™Aquila earthquake. Bulletin of Earthquake Engineering, 2011, 9, 697-715.	2.3	19
56	Peculiar earthquake damage on a reinforced concrete building in San Gregorio (Lâ€™Aquila, Italy): site effects or building defects?. Bulletin of Earthquake Engineering, 2011, 9, 825-840.	2.3	30
57	Surface wave surveys for seismic site characterization of accelerometric stations in ITACA. Bulletin of Earthquake Engineering, 2011, 9, 1797-1820.	2.3	37
58	Seismic Input Motion Determined from a Surface-Downhole Pair of Sensors: A Constrained Deconvolution Approach. Bulletin of the Seismological Society of America, 2010, 100, 1375-1380.	1.1	17
59	Wireless technologies for the monitoring of strategic civil infrastructures: an ambient vibration test on the Fatih Sultan Mehmet Suspension Bridge in Istanbul, Turkey. Bulletin of Earthquake Engineering, 2010, 8, 671-691.	2.3	28
60	Real time monitoring of structures in task force missions: the example of the MwÂ=Â6.3 Central Italy Earthquake, April 6, 2009. Natural Hazards, 2010, 52, 253-256.	1.6	20
61	Deblurring of frequency-wavenumber images from small-scale seismic arrays. Geophysical Journal International, 2010, 181, 357-368.	1.0	24
62	Shear wave velocity model of the Santiago de Chile basin derived from ambient noise measurements: a comparison of proxies for seismic site conditions and amplification. Geophysical Journal International, 2010, , no-no.	1.0	19
63	GFZ Wireless Seismic Array (GFZ-WISE), a Wireless Mesh Network of Seismic Sensors: New Perspectives for Seismic Noise Array Investigations and Site Monitoring. Sensors, 2010, 10, 3280-3304.	2.1	40
64	Site Effects Assessment in Bishkek (Kyrgyzstan) Using Earthquake and Noise Recording Data. Bulletin of the Seismological Society of America, 2010, 100, 3068-3082.	1.1	39
65	The Self-organizing Seismic Early Warning Information Network (SOSEWIN). Seismological Research Letters, 2009, 80, 755-771.	0.8	86
66	Characterization of shallow geology by high-frequency seismic noise tomography. Geophysical Journal International, 2009, 176, 164-174.	1.0	128
67	Site characterization by seismic noise in Istanbul, Turkey. Soil Dynamics and Earthquake Engineering, 2009, 29, 469-482.	1.9	70
68	The Challenges of Using Wireless Mesh Networks for Earthquake Early Warning Systems. , 2009, , .		9
69	Ambient Noise Measurements for Preliminary Site-Effects Characterization in the Urban Area of Florence, Italy. Bulletin of the Seismological Society of America, 2008, 98, 1373-1388.	1.1	99
70	Rayleigh wave dispersion curves from seismological and engineering-geotechnical methods: a comparison at the Bornheim test site (Germany). Journal of Geophysics and Engineering, 2007, 4, 349-361.	0.7	33
71	Combining genetic and linearized algorithms for a two-step joint inversion of Rayleigh wave dispersion andH/Vspectral ratio curves. Geophysical Journal International, 2007, 169, 189-200.	1.0	102
72	Statistical Analysis of Noise Horizontal-to-Vertical Spectral Ratios (HVSR). Bulletin of the Seismological Society of America, 2005, 95, 1779-1786.	1.1	53

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73	Joint inversion of H/V ratios and dispersion curves from seismic noise: Estimating the S-wave velocity of bedrock. Geophysical Research Letters, 2005, 32, .	1.5	102
74	Joint inversion of phase velocity dispersion and H/V ratio curves from seismic noise recordings using a genetic algorithm, considering higher modes. Geophysical Research Letters, 2005, 32, .	1.5	192
75	QUICK ESTIMATES OF SOFT SEDIMENT THICKNESSES FROM AMBIENT NOISE HORIZONTAL TO VERTICAL SPECTRAL RATIOS: A CASE STUDY IN SOUTHERN ITALY. Journal of Earthquake Engineering, 2004, 8, 895-908.	1.4	25
76	Title is missing!. Journal of Earthquake Engineering, 2004, 8, 895.	1.4	14
77	Title is missing!. Journal of Earthquake Engineering, 2003, 7, 599.	1.4	2
78	Stress Drop Derived from Spectral Analysis Considering the Hypocentral Depth in the Attenuation Model: Application to the Ridgecrest Region, California. Bulletin of the Seismological Society of America, 0, , .	1.1	11
79	Spatiotemporal Evolution of Microseismicity Seismic Source Properties at the Irpinia Near-Fault Observatory, Southern Italy. Bulletin of the Seismological Society of America, 0, , .	1.1	12
80	Trans-national earthquake early warning (EEW) in north-eastern Italy, Slovenia and Austria: first experience with PRESTo at the CE³RN network. Advances in Geosciences, 0, 40, 51-61.	12.0	9