

Edoardo Del Pezzo

List of Publications by Year in descending order

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138
papers

3,945
citations

109264

35
h-index

168321

53
g-index

141
all docs

141
docs citations

141
times ranked

1942
citing authors

#	ARTICLE	IF	CITATIONS
1	Seismic attenuation imaging of Campi Flegrei: Evidence of gas reservoirs, hydrothermal basins, and feeding systems. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	129
2	Automatic Classification of Seismic Signals at Mt. Vesuvius Volcano, Italy, Using Neural Networks. <i>Bulletin of the Seismological Society of America</i> , 2005, 95, 185-196.	1.1	126
3	Depth-dependent seismic attenuation in the Granada zone (Southern Spain). <i>Bulletin of the Seismological Society of America</i> , 1990, 80, 1232-1244.	1.1	109
4	Separation of intrinsic and scattering seismic attenuation in the Southern Apennine zone, Italy. <i>Geophysical Journal International</i> , 2002, 150, 10-22.	1.0	103
5	Discrimination of Earthquakes and Underwater Explosions Using Neural Networks. <i>Bulletin of the Seismological Society of America</i> , 2003, 93, 215-223.	1.1	95
6	Separation of scattering and intrinsic attenuation in southern Spain and western Anatolia (Turkey). <i>Geophysical Journal International</i> , 1995, 121, 337-353.	1.0	92
7	Attenuation of short-period seismic waves at Mt Vesuvius, Italy. <i>Geophysical Journal International</i> , 1999, 138, 67-76.	1.0	89
8	Measurements of intrinsic and scattering seismic attenuation in the crust. <i>Bulletin of the Seismological Society of America</i> , 1995, 85, 1373-1380.	1.1	85
9	Seismovolcanic signals at Deception Island volcano, Antarctica: Wave field analysis and source modeling. <i>Journal of Geophysical Research</i> , 2000, 105, 13905-13931.	3.3	83
10	Seismicity associated with the 2004-2006 renewed ground uplift at Campi Flegrei Caldera, Italy. <i>Physics of the Earth and Planetary Interiors</i> , 2007, 165, 14-24.	0.7	83
11	Array analysis using circular-wave-front geometry: an application to locate the nearby seismo-volcanic source. <i>Geophysical Journal International</i> , 1999, 136, 159-170.	1.0	81
12	Seismic Signals Associated with Landslides and with a Tsunami at Stromboli Volcano, Italy. <i>Bulletin of the Seismological Society of America</i> , 2004, 94, 1850-1867.	1.1	73
13	Stromboli and its 1975 eruption. <i>Bulletin of Volcanology</i> , 1978, 41, 259-285.	1.1	71
14	The role of hydrothermal fluids in triggering the July-August 2000 seismic swarm at Campi Flegrei, Italy: evidence from seismological and mesostructural data. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 133, 229-246.	0.8	68
15	Separation of depth-dependent intrinsic and scattering seismic attenuation in the northeastern sector of the Italian Peninsula. <i>Geophysical Journal International</i> , 2005, 161, 130-142.	1.0	66
16	Observations of high-frequency scattered waves using dense arrays at Teide Volcano. <i>Bulletin of the Seismological Society of America</i> , 1997, 87, 1637-1647.	1.1	63
17	Array tracking of the volcanic tremor source at Deception Island, Antarctica. <i>Geophysical Research Letters</i> , 1997, 24, 3069-3072.	1.5	62
18	The 1998-1999 seismic series at Deception Island volcano, Antarctica. <i>Journal of Volcanology and Geothermal Research</i> , 2003, 128, 65-88.	0.8	54

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19	High resolution velocity structure beneath Mount Vesuvius from seismic array data. <i>Geophysical Research Letters</i> , 2002, 29, 36-1.	1.5	53
20	Space-weighted seismic attenuation mapping of the aseismic source of Campi Flegrei 1983-1984 unrest. <i>Geophysical Research Letters</i> , 2017, 44, 1740-1748.	1.5	53
21	Clues on the origin of post-2000 earthquakes at Campi Flegrei caldera (Italy). <i>Scientific Reports</i> , 2017, 7, 4472.	1.6	53
22	Source and dynamics of a volcanic caldera unrest: Campi Flegrei, 1983-84. <i>Scientific Reports</i> , 2017, 7, 8099.	1.6	50
23	Attenuation study in the Straits of Messina area (southern Italy). <i>Tectonophysics</i> , 2006, 421, 173-185.	0.9	49
24	Source parameters of microearthquakes at Phlegraean Fields (Southern Italy) volcanic area. <i>Physics of the Earth and Planetary Interiors</i> , 1987, 47, 25-42.	0.7	48
25	Spatial distribution of intrinsic and scattering seismic attenuation in active volcanic islands - I: model and the case of Tenerife Island. <i>Geophysical Journal International</i> , 2013, 195, 1942-1956.	1.0	47
26	Q c of three component seismograms of volcanic microearthquakes at Campi Flegrei volcanic area - Southern Italy. <i>Pure and Applied Geophysics</i> , 1985, 123, 683-696.	0.8	45
27	Seismic source dynamics at Vesuvius volcano, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 133, 23-39.	0.8	43
28	Small scale shallow attenuation structure at Mt. Vesuvius, Italy. <i>Physics of the Earth and Planetary Interiors</i> , 2006, 157, 257-268.	0.7	43
29	Shear wave splitting changes associated with the 2001 volcanic eruption on Mt Etna. <i>Geophysical Journal International</i> , 2006, 167, 959-967.	1.0	43
30	The July-August 2000 seismic swarms at Campi Flegrei Volcanic Complex, Italy. <i>Geophysical Research Letters</i> , 2001, 28, 2525-2528.	1.5	41
31	Quantitative analysis of the tremor wavefield at Etna Volcano, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 136, 223-245.	0.8	40
32	Absorption and scattering 2-D volcano images from numerically calculated space-weighting functions. <i>Geophysical Journal International</i> , 2016, 206, 742-756.	1.0	39
33	Analysis of the seismic wavefield properties of volcanic explosions at Volc�n de Colima, M�xico: insights into the source mechanism. <i>Geophysical Journal International</i> , 2009, 177, 1383-1398.	1.0	37
34	A probabilistic approach to the inversion of data from a seismic array and its application to volcanic signals. <i>Geophysical Journal International</i> , 2000, 143, 249-261.	1.0	36
35	Study of attenuation mechanism for Garwhal-Kumaun Himalayas from analysis of coda of local earthquakes. <i>Physics of the Earth and Planetary Interiors</i> , 2010, 180, 7-15.	0.7	36
36	A double seismic antenna experiment at Teide Volcano: existence of local seismicity and lack of evidences of Volcanic tremor. <i>Journal of Volcanology and Geothermal Research</i> , 2000, 103, 439-462.	0.8	35

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37	Chapter 13 Seismic Wave Scattering in Volcanoes. <i>Advances in Geophysics</i> , 2008, 50, 353-371.	1.1	35
38	Spatial distribution of intrinsic and scattering seismic attenuation in active volcanic islands – II: Deception Island images. <i>Geophysical Journal International</i> , 2013, 195, 1957-1969.	1.0	35
39	The 3D Attenuation Structure of Deception Island (Antarctica). <i>Surveys in Geophysics</i> , 2015, 36, 371-390.	2.1	35
40	Shallow structure of Mt. Vesuvius Volcano, Italy, from seismic array analysis. <i>Geophysical Research Letters</i> , 1997, 24, 481-484.	1.5	34
41	Slowness Anomalies from Two Dense Seismic Arrays at Deception Island Volcano, Antarctica. <i>Bulletin of the Seismological Society of America</i> , 2001, 91, 561-571.	1.1	34
42	3D scattering image of the Campi Flegrei caldera (Southern Italy). <i>Physics of the Earth and Planetary Interiors</i> , 2006, 155, 269-280.	0.7	34
43	Subsurface structure of the Solfatara volcano (Campi Flegrei caldera, Italy) as deduced from joint seismic-noise array, volcanological and morphostructural analysis. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	1.0	33
44	Seismic Investigation of the Campi Flegrei: A Summary and Synthesis of Results. <i>IAVCEI Proceedings in Volcanology</i> , 1992, , 462-483.	0.4	33
45			

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55	Numerically Calculated 3D Space-Weighting Functions to Image Crustal Volcanic Structures Using Diffuse Coda Waves. <i>Geosciences (Switzerland)</i> , 2018, 8, 175.	1.0	27
56	Array analyses of seismic noise at Mt. Vesuvius Volcano, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2001, 110, 79-100.	0.8	26
57	Separation of intrinsic and scattering Q for volcanic areas: a comparison between Etna and Campi Flegrei. <i>Journal of Volcanology and Geothermal Research</i> , 1996, 70, 213-219.	0.8	25
58	Probabilistic source location of explosion quakes at Stromboli volcano estimated with double array data. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 131, 123-142.	0.8	25
59	Changes in the Coda Decay Rate and Shear-Wave Splitting Parameters Associated with Seismic Swarms at Mt. Vesuvius, Italy. <i>Bulletin of the Seismological Society of America</i> , 2004, 94, 439-452.	1.1	24
60	Model for high-frequency Strombolian tremor inferred by wavefield decomposition and reconstruction of asymptotic dynamics. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	24
61	Two-layer earth model corrections to the MLTWA estimates of intrinsic- and scattering-attenuation obtained in a uniform half-space. <i>Geophysical Journal International</i> , 0, 182, 949-955.	1.0	24
62	Separation of scattering and intrinsic attenuation at Asama volcano (Japan): Evidence of high volcanic structural contrasts. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 333-334, 96-103.	0.8	24
63	Separation of intrinsic and scattering Q for volcanic tremor: An application to Etna and Masaya volcanoes. <i>Geophysical Research Letters</i> , 2001, 28, 3083-3086.	1.5	22
64	Plane wave fitting method for a plane, small aperture, short period seismic array: a MATHCAD program. <i>Computers and Geosciences</i> , 2002, 28, 59-64.	2.0	22
65	Duration Magnitude Uncertainty due to Seismic Noise: Inferences on the Temporal Pattern of G-R b-value at Mt. Vesuvius, Italy. <i>Bulletin of the Seismological Society of America</i> , 2003, 93, 1847-1853.	1.1	22
66	Testing Small-Aperture Array Analysis on Well-Located Earthquakes, and Application to the Location of Deep Tremor. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 620-635.	1.1	22
67	Array analysis and precise source location of deep tremor in Cascadia. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	22
68	Attenuation of short period seismic waves at Etna as compared to other volcanic areas. <i>Pure and Applied Geophysics</i> , 1987, 125, 1039-1050.	0.8	21
69	Geometrical spreading and attenuation of Lg waves: a comparison between western Anatolia (Turkey) and southern Spain. <i>Tectonophysics</i> , 1995, 250, 47-60.	0.9	21
70	Array measurements of deep tremor signals in the Cascadia subduction zone. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	21
71	Source location of long period seismicity at Volc�n de Colima, M�xico. <i>Bulletin of Volcanology</i> , 2011, 73, 887-898.	1.1	21
72	Dependence of Q_c (Coda Q_c) on coda duration time interval: Model or depth effect?. <i>Bulletin of the Seismological Society of America</i> , 1990, 80, 1028-1033.	1.1	21

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73	Estimates of Coda-Q Using a Non-Linear Regression.. Journal of Physics of the Earth, 1993, 41, 203-219.	1.4	20
74	Multiple resolution seismic attenuation imaging at Mt. Vesuvius. Physics of the Earth and Planetary Interiors, 2009, 173, 17-32.	0.7	20
75	Seismic energy envelopes in volcanic media: in need of boundary conditions. Geophysical Journal International, 2013, 195, 1102-1119.	1.0	20
76	Time variation of b and Qc at Mt. Etna (1981-1987). Physics of the Earth and Planetary Interiors, 1992, 71, 137-140.	0.7	19
77	Velocity and spectral characteristics of the volcanic tremor at Etna deduced by a small seismometer array. Journal of Volcanology and Geothermal Research, 1993, 56, 369-378.	0.8	19
78	Array Analysis of Seismograms from Explosive Sources: Evidence for Surface Waves Scattered at the Main Topographical Features. Bulletin of the Seismological Society of America, 2001, 91, 219-231.	1.1	19
79	A local-magnitude scale for Mt. Vesuvius from synthetic Wood-Anderson seismograms. Journal of Seismology, 2001, 5, 207-215.	0.6	19
80	Frequency dependent Q_1^{-1} and Q_2^{-1} in the Umbria-Marche (Italy) region using a quadratic approximation of the coda-normalization method. Geophysical Journal International, 2013, 193, 1726-1731.	1.0	19
81	A case of correlation between Rn anomalies and seismic activity on a volcano (Vulcano Island.) Tj ETQq1 1 0.784314 rgBT / Overlock 1 1.58 BT / 18	1.5	18
82	Location of the source and shallow velocity model deduced from the explosion quakes recorded by two seismic antennas at Stromboli volcano. Physics and Chemistry of the Earth, 2000, 25, 731-735.	0.6	18
83	H/V Spectral Ratios and Array Techniques Applied to Ambient Noise Recorded in the Colfiorito Basin, Central Italy. Bulletin of the Seismological Society of America, 2006, 96, 490-505.	1.1	18
84	Understanding seismic path biases and magmatic activity at Mount St Helens volcano before its 2004 eruption. Geophysical Journal International, 2020, 222, 169-188.	1.0	18
85	Intrinsic and scattering seismic wave attenuation in the Central Apennines (Italy). Physics of the Earth and Planetary Interiors, 2020, 303, 106498.	0.7	16
86	Seismic Attenuation and Shallow Velocity Structures at Stromboli Volcano, Italy. Bulletin of the Seismological Society of America, 2002, 92, 1102-1116.	1.1	15
87	A detailed study of the site effects in the volcanic area of Campi Flegrei using empirical approaches. Geophysical Journal International, 0, 182, 1073-1086.	1.0	15
88	Study of the regional pattern of intrinsic and scattering seismic attenuation in Eastern Sicily (Italy) from local earthquakes. Geophysical Journal International, 2019, 218, 1456-1468.	1.0	15
89	Site response study in Abruzzo (Central Italy): underground array versus surface stations. Journal of Seismology, 1998, 2, 223-236.	0.6	14
90	Small-aperture Array for Seismic Monitoring of Mt. Vesuvius. Seismological Research Letters, 2005, 76, 344-355.	0.8	14

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91	Attenuation and velocity structure from diffuse coda waves: Constraints from underground array data. <i>Physics of the Earth and Planetary Interiors</i> , 2015, 240, 34-42.	0.7	14
92	Geometrical spreading function for short-period S and coda waves recorded in southern Spain. <i>Physics of the Earth and Planetary Interiors</i> , 1993, 80, 25-36.	0.7	13
93	Source Scaling and Site Effects at Vesuvius Volcano. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 1705-1719.	1.1	13
94	Seismic Q estimates in Umbria Marche (Central Italy): hints for the retrieval of a new attenuation law for seismic risk. <i>Geophysical Journal International</i> , 2015, 201, 1370-1382.	1.0	13
95	Seismic site amplification factors in Campi Flegrei, Southern Italy. <i>Physics of the Earth and Planetary Interiors</i> , 1993, 78, 105-117.	0.7	12
96	Spatial characterization of Agron, southern Spain, 1988-1989 seismic series. <i>Physics of the Earth and Planetary Interiors</i> , 2002, 129, 13-29.	0.7	12
97	Stochastic Finite-Fault Ground-Motion Simulation in a Wave-Field Diffusive Regime: Case Study of the Mt. Vesuvius Volcanic Area. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 1272-1288.	1.1	12
98	Seismic Coda-Waves Imaging Based on Sensitivity Kernels Calculated Using an Heuristic Approach. <i>Geosciences (Switzerland)</i> , 2020, 10, 304.	1.0	12
99	Characteristics of the seismic attenuation in two tectonically active zones of Southern Europe. <i>Pure and Applied Geophysics</i> , 1991, 135, 91-106.	0.8	10
100	Detection of Seismic Signals from Background Noise in the Area of Campi Flegrei: Limits of the Present Seismic Monitoring. <i>Seismological Research Letters</i> , 2013, 84, 190-198.	0.8	10
101	A reappraisal of seismic Q evaluated at Mt. Etna volcano. Receipt for the application to risk analysis. <i>Journal of Seismology</i> , 2015, 19, 105-119.	0.6	10
102	Title is missing!. <i>Journal of Seismology</i> , 1999, 3, 83-94.	0.6	9
103	First 2-D intrinsic and scattering attenuation images of Mt Etna volcano and surrounding region from active seismic data. <i>Geophysical Journal International</i> , 2020, 220, 267-277.	1.0	9
104	3D Scattering Image of Mt. Vesuvius. <i>Bulletin of the Seismological Society of America</i> , 2009, 99, 1962-1972.	1.1	8
105	MathLTWA: Multiple lapse time window analysis using Wolfram Mathematica 7. <i>Computers and Geosciences</i> , 2010, 36, 1388-1392.	2.0	8
106	A scattering image of Campi Flegrei from the autocorrelation functions of velocity tomograms. <i>Geophysical Journal International</i> , 2011, 184, 1304-1310.	1.0	8
107	2D kernel-based imaging of coda-Q space variations in the Gargano Promontory (Southern Italy). <i>Physics of the Earth and Planetary Interiors</i> , 2019, 297, 106313.	0.7	8
108	Correlation of deep earthquakes, eruptive activity at stromboli volcano and age of the radium fractionation in the magma. <i>Journal of Volcanology and Geothermal Research</i> , 1976, 1, 381-385.	0.8	7

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109	Temporal changes in seismic wave propagation towards the end of the 2002 Mt Etna eruption. <i>Geophysical Journal International</i> , 2009, 178, 1779-1788.	1.0	7
110	A reappraisal of seismic Q evaluated in Campi Flegrei caldera. Receipt for the application to risk analysis. <i>Journal of Seismology</i> , 2013, 17, 829-837.	0.6	7
111	The TOMO-ETNA experiment: an imaging active campaign at Mt. Etna volcano. Context, main objectives, working-plans and involved research projects. <i>Annals of Geophysics</i> , 2016, 59, .	0.5	7
112	Fast Changes in Seismic Attenuation of the Upper Crust due to Fracturing and Fluid Migration: The 2016-2017 Central Italy Seismic Sequence. <i>Frontiers in Earth Science</i> , 0, 10, .	0.8	7
113	Magnitude scale for LP events: a quantification scheme for volcanic quakes. <i>Geophysical Journal International</i> , 2013, 194, 911-919.	1.0	6
114	The crust and upper mantle structure beneath southern Italy by earthquakes and DSS data. <i>Pure and Applied Geophysics</i> , 1981, 119, 1134-1143.	0.8	5
115	The time evolution of vertical ground movements in the Campi Flegrei caldera: a kinetic phenomenological model. <i>Journal of Volcanology and Geothermal Research</i> , 1989, 39, 41-53.	0.8	5
116	Q_P and Q_S in the upper mantle beneath the Iberian peninsula from recordings of the very deep Granada earthquake of April 11, 2010. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	5
117	The first Long Period earthquake detected in the background seismicity at Mt. Vesuvius. <i>Annals of Geophysics</i> , 2013, 56, .	0.5	5
118	Observations of volcanic earthquakes and tremor at Deception Island - Antarctica. <i>Annals of Geophysics</i> , 1999, 42, .	0.5	5
119	Shallow Magma Storage Beneath Mt. Etna: Evidence From New Attenuation Tomography and Existing Velocity Models. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022094.	1.4	4
120	3-D Q-coda attenuation structure at Mt. Etna (Italy). <i>Geophysical Journal International</i> , 0, , .	1.0	4
121	3D-Kernel Based Imaging of an Improved Estimation of (Q_c) in the Northern Apulia (Southern Italy). <i>Applied Sciences (Switzerland)</i> , 2021, 11, 7512.	1.3	4
122	New insights into Mt. Vesuvius hydrothermal system and its dynamic based on a critical review of seismic tomography and geochemical features. <i>Annals of Geophysics</i> , 2013, 56, .	0.5	4
123	Depth dependence of seismic attenuation in the Messina Strait area. <i>Tectonophysics</i> , 1992, 206, 137-146.	0.9	3
124	Coherent-subspace array processing based on wavelet covariance: an application to broad-band, seismo-volcanic signals. <i>Geophysical Journal International</i> , 2008, 174, 435-450.	1.0	3
125	Small-Scale Volcanic Structures of the Aeolian Volcanic Arc Revealed by Seismic Attenuation. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	3
126	Peak ground acceleration produced by local earthquakes in volcanic areas of Campi Flegrei and Mt. Vesuvius. <i>Annals of Geophysics</i> , 2009, 47, .	0.5	3

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127	Inside Mt. Vesuvius: a new method to look at the seismic (velocity and attenuation) tomographic imaging. <i>Annals of Geophysics</i> , 2013, 56, .	0.5	3
128	Site response using coda-wave techniques: Applications to short period data from central and southern Italy. <i>Pure and Applied Geophysics</i> , 1991, 136, 127-141.	0.8	2
129	Site response obtained from array techniques applied to the seismic noise: Two examples in Italy. <i>Journal of Seismology</i> , 1999, 3, 31-43.	0.6	2
130	Scat-Cad: a Mathcad 2000 professional package to model the energy decay due to seismic attenuation. <i>Computers and Geosciences</i> , 2002, 28, 851-855.	2.0	2
131	Reply to comments on "Separation of Q_i and Q_s from passive data at Mt. Vesuvius: A reappraisal of the seismic attenuation estimates" by Ugalde, A. and Carcolá, E.. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 173, 195-196.	0.7	2
132	Seismic Envelopes of Coda Decay for Q-coda Attenuation Studies of the Gargano Promontory (Southern Italy) and Surrounding Regions. <i>Data</i> , 2021, 6, 98.	1.2	2
133	Moment magnitude (M_w) from hydrophone records of low energy volcanic quakes. <i>Journal of Seismology</i> , 2022, 26, 875-882.	0.6	2
134	Dependence of the apparent seismic quality factor on epicentral distance: an interpretation in terms of fractal structure of the seismic medium. <i>Physics of the Earth and Planetary Interiors</i> , 1994, 82, 271-276.	0.7	1
135	Estimate of the -depth pattern from coda- measurements. <i>Physics of the Earth and Planetary Interiors</i> , 1995, 88, 79-82.	0.7	1
136	Anomalous character of the coda envelopes on Mt Vesuvius explained in terms of depth dependent Q_c . <i>Geophysical Journal International</i> , 2010, , .	1.0	0
137	Joint observation of coherent coda waves at surface and underground arrays. <i>Geophysical Journal International</i> , 2013, 194, 367-371.	1.0	0
138	ANNALS OF GEOPHYSICS: AD MAJORA. <i>Annals of Geophysics</i> , 2014, 57, .	0.5	0