

Simone Cesca

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2116752/publications.pdf>

Version: 2024-02-01

108
papers

3,294
citations

186265

28
h-index

175258

52
g-index

147
all docs

147
docs citations

147
times ranked

3065
citing authors

#	ARTICLE	IF	CITATIONS
1	Intermediate-depth earthquakes in southern Spain and Alboran Sea. <i>Tectonophysics</i> , 2022, 825, 229238.	2.2	3
2	Insight into the 2017–2019 Lurestan arc seismic sequence (Zagros, Iran); complex earthquake interaction in the basement and sediments. <i>Geophysical Journal International</i> , 2022, 230, 114-130.	2.4	3
3	Massive earthquake swarm driven by magmatic intrusion at the Bransfield Strait, Antarctica. <i>Communications Earth & Environment</i> , 2022, 3, .	6.8	15
4	Monitoring microseismicity of the Hengill Geothermal Field in Iceland. <i>Scientific Data</i> , 2022, 9, 220.	5.3	9
5	Reply to: Multiple induced seismicity mechanisms at Castor underground gas storage illustrate the need for thorough monitoring. <i>Nature Communications</i> , 2022, 13, .	12.8	1
6	Source mechanisms and rupture processes of the Jujuy seismic nest, Chile-Argentina border. <i>Journal of South American Earth Sciences</i> , 2022, 117, 103887.	1.4	5
7	Earthquake Fingerprint of an Incipient Subduction of a Bathymetric High. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3
8	Source study of 2017 Hojedk triplet earthquake sequence, southeast Iran. <i>Journal of Seismology</i> , 2021, 25, 85-101.	1.3	5
9	Relative earthquake location procedure for clustered seismicity with a single station. <i>Geophysical Journal International</i> , 2021, 225, 608-626.	2.4	3
10	Towards a regional, automated full moment tensor inversion for medium to large magnitude events in the Iranian plateau. <i>Journal of Seismology</i> , 2021, 25, 653-669.	1.3	2
11	The 2014 Juan Fernandez microplate earthquake doublet: Evidence for large thrust faulting driven by microplate rotation. <i>Tectonophysics</i> , 2021, 801, 228720.	2.2	2
12	On the Source Parameters and Genesis of the 2017, Mw 4 Montesano Earthquake in the Outer Border of the Val d'Agri Oilfield (Italy). <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	6
13	Rupture Directivity in 3D Inferred From Acoustic Emissions Events in a Mine-Scale Hydraulic Fracturing Experiment. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	7
14	Reservoir-Triggered Earthquakes Around the Ataturk Dam (Southeastern Turkey). <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	9
15	Regional centroid moment tensor inversion of small to moderate earthquakes in the Alps using the dense AlpArray seismic network: challenges and seismotectonic insights. <i>Solid Earth</i> , 2021, 12, 1233-1257.	2.8	19
16	Repeating earthquakes and ground deformation reveal the structure and triggering mechanisms of the Pernicana fault, Mt. Etna. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	4
17	How to Assess the Moment Tensor Inversion Resolution for Mining Induced Seismicity: A Case Study for the Rudna Mine, Poland. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	5
18	Seismicity at the Castor gas reservoir driven by pore pressure diffusion and asperities loading. <i>Nature Communications</i> , 2021, 12, 4783.	12.8	22

#	ARTICLE	IF	CITATIONS
19	Detection and potential early warning of catastrophic flow events with regional seismic networks. <i>Science</i> , 2021, 374, 87-92.	12.6	54
20	The 2019â€“2020 Khalili (Iran) Earthquake Sequenceâ€”Anthropogenic Seismicity in the Zagros Simply Folded Belt?. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022797.	3.4	9
21	Insights Into Hydraulic Fracture Growth Gained From a Joint Analysis of Seismometerâ€”Derived Tilt Signals and Acoustic Emissions. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	3.4	5
22	Inflating Shallow Plumbing System of Bezymianny Volcano, Kamchatka, Studied by InSAR and Seismicity Data Prior to the 20 December 2017 Eruption. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	3
23	Re-evaluation of Seismic Intensities and Relocation of 1969 Saint Vincent Cape Seismic Sequence: A Comparison with the 1755 Lisbon Earthquake. <i>Pure and Applied Geophysics</i> , 2020, 177, 1781-1800.	1.9	15
24	Drainage of a deep magma reservoir near Mayotte inferred from seismicity and deformation. <i>Nature Geoscience</i> , 2020, 13, 87-93.	12.9	109
25	Seismicity clusters in Central Chile: investigating the role of repeating earthquakes and swarms in a subduction region. <i>Geophysical Journal International</i> , 2020, 224, 2028-2043.	2.4	8
26	Clusty, the waveform-based network similarity clustering toolbox: concept and application to image complex faulting offshore Zakynthos (Greece). <i>Geophysical Journal International</i> , 2020, 224, 2044-2059.	2.4	15
27	Earthquake Swarms, Slow Slip and Fault Interactions at the Westernâ€”End of the Hellenic Subduction System Precede the $M_w < 6.9$ Zakynthos Earthquake, Greece. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009243.	2.5	12
28	Full-waveform-based characterization of acoustic emission activity in a mine-scale experiment: a comparison of conventional and advanced hydraulic fracturing schemes. <i>Geophysical Journal International</i> , 2020, 222, 189-206.	2.4	27
29	An application of coherence-based method for earthquake detection and microseismic monitoring (Irpinia fault system, Southern Italy). <i>Journal of Seismology</i> , 2020, 24, 979-989.	1.3	7
30	Seiscloud, a tool for density-based seismicity clustering and visualization. <i>Journal of Seismology</i> , 2020, 24, 443-457.	1.3	27
31	Focal Parameters of Earthquakes Offshore Cape St. Vincent Using an Amphibious Network. <i>Pure and Applied Geophysics</i> , 2020, 177, 1761-1780.	1.9	12
32	Detection of weak seismic sequences based on arrival time coherence and empiric network detectability: an application at a near fault observatory. <i>Geophysical Journal International</i> , 2019, 218, 2054-2065.	2.4	18
33	Seismic activity during the 2013â€“2015 intereruptive phase at Lascar volcano, Chile. <i>Geophysical Journal International</i> , 2019, 219, 449-463.	2.4	7
34	Growth and collapse of a littoral lava dome during the 2018/19 eruption of Kadovar Volcano, Papua New Guinea, analyzed by multi-sensor satellite imagery. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 388, 106704.	2.1	19
35	Automated Quality Control for Large Seismic Networks: Implementation and Application to the AlpArray Seismic Network. <i>Seismological Research Letters</i> , 2019, 90, 1177-1190.	1.9	17
36	Did the Deadly 1917 Monterchi Earthquake Occur on the Lowâ€”Angle Alto Tiberina (Central Italy) Normal Fault?. <i>Seismological Research Letters</i> , 2019, 90, 1131-1144.	1.9	1

#	ARTICLE	IF	CITATIONS
37	SHEER ϵ -database: technical note. <i>Acta Geophysica</i> , 2019, 67, 291-297.	2.0	1
38	Event couple spectral ratio Q ; method for earthquake clusters: application to northwest Bohemia. <i>Solid Earth</i> , 2019, 10, 317-328.	2.8	6
39	Small-aperture array as a tool to monitor fluid injection- and extraction-induced microseismicity: applications and recommendations. <i>Acta Geophysica</i> , 2019, 67, 311-326.	2.0	4
40	Breaking a subduction-termination from top to bottom: The large 2016 Kaikōura Earthquake, New Zealand. <i>Earth and Planetary Science Letters</i> , 2019, 506, 221-230.	4.4	36
41	A multi-technology analysis of the 2017 North Korean nuclear test. <i>Solid Earth</i> , 2019, 10, 59-78.	2.8	29
42	Anthropogenic seismicity in Italy and its relation to tectonics: State of the art and perspectives. <i>Anthropocene</i> , 2018, 21, 80-94.	3.3	24
43	The November 2017 M_w 5.5 Pohang earthquake: A possible case of induced seismicity in South Korea. <i>Science</i> , 2018, 360, 1003-1006.	12.6	325
44	Moment tensor inversion with three-dimensional sensor configuration of mining induced seismicity (Kiruna mine, Sweden). <i>Geophysical Journal International</i> , 2018, 213, 2147-2160.	2.4	19
45	Seismological Constraints on the Source Mechanism of the Damaging Seismic Event of 21 August 2017 on Ischia Island (Southern Italy). <i>Seismological Research Letters</i> , 2018, 89, 1741-1749.	1.9	14
46	Challenges in Regional Moment Tensor Resolution and Interpretation. <i>Springer Natural Hazards</i> , 2018, , 163-181.	0.3	5
47	Magmatic or Not Magmatic? The 2015–2016 Seismic Swarm at the Long-Dormant Jailolo Volcano, West Halmahera, Indonesia. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	23
48	Source Complexity of an Injection Induced Event: The 2016 M_w 5.1 Fairview, Oklahoma Earthquake. <i>Geophysical Research Letters</i> , 2018, 45, 4025-4032.	4.0	20
49	The seismic sequence of 30th May–9th June 2016 in the geothermal site of Torre Alfina (central Italy) and related variations in soil gas emissions. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 359, 21-36.	2.1	9
50	Induced seismicity response of hydraulic fracturing: results of a multidisciplinary monitoring at the Wysin site, Poland. <i>Scientific Reports</i> , 2018, 8, 8653.	3.3	27
51	Moment Tensor Inversion for Nuclear Explosions: What Can We Learn from the 6 January and 9 September 2016 Nuclear Tests, North Korea?. <i>Seismological Research Letters</i> , 2017, 88, 300-310.	1.9	28
52	Crustal velocity structure and earthquake processes of Garhwal-Kumaun Himalaya: Constraints from regional waveform inversion and array beam modeling. <i>Tectonophysics</i> , 2017, 712-713, 45-63.	2.2	26
53	Current challenges in monitoring, discrimination, and management of induced seismicity related to underground industrial activities: A European perspective. <i>Reviews of Geophysics</i> , 2017, 55, 310-340.	23.0	235
54	Complex rupture process of the M_w 7.8, 2016, Kaikōura earthquake, New Zealand, and its aftershock sequence. <i>Earth and Planetary Science Letters</i> , 2017, 478, 110-120.	4.4	91

#	ARTICLE	IF	CITATIONS
55	Automated Full Waveform Detection and Location Algorithm of Acoustic Emissions from Hydraulic Fracturing Experiment. <i>Procedia Engineering</i> , 2017, 191, 697-702.	1.2	18
56	Characterization of Hydraulic Fractures Growth During the Å,,spÅ¶ Hard Rock Laboratory Experiment (Sweden). <i>Rock Mechanics and Rock Engineering</i> , 2017, 50, 2985-3001.	5.4	43
57	The 2016 south Alboran earthquake (Mw= 6.4): A reactivation of the Ibero-Maghrebian region?. <i>Tectonophysics</i> , 2017, 712-713, 704-715.	2.2	21
58	Monitoring performance using synthetic data for induced microseismicity by hydrofracking at the Wysin site (Poland). <i>Geophysical Journal International</i> , 2017, 210, 42-55.	2.4	23
59	The Sheer Approach To Shale Gas Exploration And Exploitation Associated Risks. , 2017, , .		1
60	Misalignment Angle Correction of Borehole Seismic Sensors: The Case Study of the Collalto Seismic Network. <i>Seismological Research Letters</i> , 2016, 87, 668-677.	1.9	3
61	Resolving source mechanisms of microseismic swarms induced by solution mining. <i>Geophysical Journal International</i> , 2016, 206, 696-715.	2.4	12
62	Imaging active faulting in a region of distributed deformation from the joint clustering of focal mechanisms and hypocentres: Application to the Azoresâ€“western Mediterranean region. <i>Tectonophysics</i> , 2016, 676, 70-89.	2.2	50
63	Automated microseismic event location using Master-Event Waveform Stacking. <i>Scientific Reports</i> , 2016, 6, 25744.	3.3	49
64	Gradual caldera collapse at BÃ¡rdarbunga volcano, Iceland, regulated by lateral magma outflow. <i>Science</i> , 2016, 353, aaf8988.	12.6	230
65	The $M_w > 8.1$ 2014 Iquique, Chile, seismic sequence: a tale of foreshocks and aftershocks. <i>Geophysical Journal International</i> , 2016, 204, 1766-1780.	2.4	49
66	Complex Rupture Process of the 19 March 2013, Rudna Mine (Poland) Induced Seismic Event and Collapse in the Light of Local and Regional Moment Tensor Inversion. <i>Seismological Research Letters</i> , 2016, 87, 274-284.	1.9	34
67	Stress changes, focal mechanisms, and earthquake scaling laws for the 2000 dike at Miyakejima (Japan). <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 4130-4145.	3.4	23
68	Discrimination between induced, triggered, and natural earthquakes close to hydrocarbon reservoirs: A probabilistic approach based on the modeling of depletionâ€“induced stress changes and seismological source parameters. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 2491-2509.	3.4	69
69	Full Waveform Seismological Advances for Microseismic Monitoring. <i>Advances in Geophysics</i> , 2015, 56, 169-228.	2.8	53
70	The 8 October 2011 Earthquake at El Hierro ($M_w > 4.0$): Focal Mechanisms of the Mainshock and Its Foreshocks. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 330-340.	2.3	15
71	Aseismic transient driving the swarm-like seismic sequence in the Pollino range, Southern Italy. <i>Geophysical Journal International</i> , 2015, 201, 1553-1567.	2.4	40
72	Maximum Magnitude of Completeness in a Salt Mine. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 1491-1501.	2.3	4

#	ARTICLE	IF	CITATIONS
73	Systematic Changes of Earthquake Rupture with Depth: A Case Study from the 2010 M _w 8.8 Maule, Chile, Earthquake Aftershock Sequence. Bulletin of the Seismological Society of America, 2015, 105, 2468-2479.	2.3	10
74	The 1748 Montesa (southeast Spain) earthquake – A singular event. Tectonophysics, 2015, 664, 139-153.	2.2	7
75	Case Studies of Depletion Induced Seismicity Using Rate & State Modeling for Probabilistic Discrimination and Hazard. , 2015, , .		0
76	Identification and characterization of growing large-scale en-echelon fractures in a salt mine. Geophysical Journal International, 2014, 196, 1092-1105.	2.4	16
77	The 2013 September–October seismic sequence offshore Spain: a case of seismicity triggered by gas injection?. Geophysical Journal International, 2014, 198, 941-953.	2.4	93
78	Rupture process of the Lorca (southeast Spain) 11 May 2011 (M _w = 5.1) earthquake. Journal of Seismology, 2014, 18, 481.	1.3	8
79	Seismicity monitoring by cluster analysis of moment tensors. Geophysical Journal International, 2014, 196, 1813-1826.	2.4	43
80	Seismogenesis of exceptional ground motion due to a sequence of mining induced tremors from Legnica-GÅ³w Copper District in Poland. Geophysical Journal International, 2014, 198, 40-54.	2.4	13
81	Automated seismic event location by waveform coherence analysis. Geophysical Journal International, 2014, 196, 1742-1753.	2.4	90
82	Evidence for tensile faulting deduced from full waveform moment tensor inversion during the stimulation of the Basel enhanced geothermal system. Geothermics, 2014, 52, 74-83.	3.4	32
83	The MINE Project: Monitoring Induced Seismicity in a German Coal Mine. Advanced Technologies in Earth Sciences, 2014, , 63-81.	0.9	0
84	Automated Seismic Event Location by Travel-Time Stacking: An Application to Mining Induced Seismicity. Seismological Research Letters, 2013, 84, 666-677.	1.9	80
85	Seismic Characterization of the Chelyabinsk Meteor's Terminal Explosion. Seismological Research Letters, 2013, 84, 1021-1025.	1.9	23
86	Waveform inversion of small-to-moderate earthquakes located offshore southwest Iberia. Geophysical Journal International, 2013, 192, 248-259.	2.4	40
87	Recommendation for the discrimination of human-related and natural seismicity. Journal of Seismology, 2013, 17, 197-202.	1.3	64
88	Discrimination of induced seismicity by full moment tensor inversion and decomposition. Journal of Seismology, 2013, 17, 147-163.	1.3	99
89	Preface to the special issue – Triggered and induced seismicity: probabilities and discrimination – Journal of Seismology, 2013, 17, 1-4.	1.3	13
90	Automated full moment tensor inversion of coal mining-induced seismicity. Geophysical Journal International, 2013, 195, 1267-1281.	2.4	42

#	ARTICLE	IF	CITATIONS
91	Source modelling of the M5.6 Emilia-Romagna, Italy, earthquakes (2012 May 20-29). <i>Geophysical Journal International</i> , 2013, 193, 1658-1672.	2.4	37
92	Improving the estimation of detection probability and magnitude of completeness in strongly heterogeneous media, an application to acoustic emission (AE). <i>Geophysical Journal International</i> , 2013, 193, 1556-1569.	2.4	10
93	Investigating the Origin of Seismic Swarms. <i>Eos</i> , 2013, 94, 361-362.	0.1	9
94	Proceso de ruptura del sismo de Lorca.. <i>Física De La Tierra</i> , 2013, 24, .	0.1	1
95	Fast Kinematic Waveform Inversion and Robustness Analysis: Application to the 2007 Mw 5.9 Horseshoe Abyssal Plain Earthquake Offshore Southwest Iberia. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 361-376.	2.3	22
96	A complex linear least-squares method to derive relative and absolute orientations of seismic sensors. <i>Geophysical Journal International</i> , 2012, 188, 1243-1254.	2.4	30
97	The 2010 Granada, Spain, Deep Earthquake. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 2418-2430.	2.3	48
98	Rupture process of the 2001 May 7 Mw 4.3 Ekofisk induced earthquake. <i>Geophysical Journal International</i> , 2011, 187, 407-413.	2.4	22
99	Rapid directivity detection by azimuthal amplitude spectra inversion. <i>Journal of Seismology</i> , 2011, 15, 147-164.	1.3	30
100	Automated procedure for point and kinematic source inversion at regional distances. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	87
101	Effects of topography and crustal heterogeneities on the source estimation of LP event at Kilauea volcano. <i>Geophysical Journal International</i> , 2008, 172, 1219-1236.	2.4	23
102	A frequency domain inversion code to retrieve time-dependent parameters of very long period volcanic sources. <i>Computers and Geosciences</i> , 2008, 34, 235-246.	4.2	14
103	The 7 June 2007 mbLg 4.2 Escopete Earthquake: An Event with Significant Ground Motion in a Stable Zone (Central Iberian Peninsula). <i>Seismological Research Letters</i> , 2008, 79, 820-829.	1.9	3
104	Modelling of the April 5, 2003, Stromboli (Italy) paroxysmal eruption from the inversion of broadband seismic data. <i>Earth and Planetary Science Letters</i> , 2007, 261, 164-178.	4.4	13
105	Amplitude spectra moment tensor inversion of shallow earthquakes in Spain. <i>Geophysical Journal International</i> , 2006, 166, 839-854.	2.4	65
106	The Bullas (Murcia, SE Spain) earthquake, 29 January 2005. <i>Journal of Seismology</i> , 2006, 10, 65-72.	1.3	16
107	Influence of lithospheric and mantle stratification on co- and $\frac{1}{2}$ post-seismic deformation due to finite faults. <i>Geophysical Journal International</i> , 2000, 143, 575-581.	2.4	6
108	Full-Waveform based methods for Microseismic Monitoring Operations: an Application to Natural and Induced Seismicity in the Hengill Geothermal Area, Iceland. <i>Advances in Geosciences</i> , 0, 54, 129-136.	12.0	7