

Marc Wathelet

List of Publications by Year in descending order

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Version: 2024-02-01

31
papers

2,168
citations

393982

19
h-index

476904

29
g-index

32
all docs

32
docs citations

32
times ranked

1719
citing authors

#	ARTICLE	IF	CITATIONS
1	An improved neighborhood algorithm: Parameter conditions and dynamic scaling. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	376
2	Surface wave inversion using a direct search algorithm and its application to ambient vibration measurements. <i>Near Surface Geophysics</i> , 2004, 2, 211-221.	0.6	323
3	Effects of Love Waves on Microtremor H/V Ratio. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 288-300.	1.1	204
4	Geopsy: A User-Friendly Open-Source Tool Set for Ambient Vibration Processing. <i>Seismological Research Letters</i> , 2020, 91, 1878-1889.	0.8	203
5	Array performances for ambient vibrations on a shallow structure and consequences over V s inversion. <i>Journal of Seismology</i> , 2008, 12, 1-19.	0.6	198
6	Ground structure imaging by inversions of Rayleigh wave ellipticity: sensitivity analysis and application to European strong-motion sites. <i>Geophysical Journal International</i> , 2013, 192, 207-229.	1.0	94
7	Application of geophysical methods for the investigation of the large gravitational mass movement of SA@chilienne, France. <i>Canadian Geotechnical Journal</i> , 2005, 42, 1105-1115.	1.4	93
8	Assessing the reliability of the modified three-component spatial autocorrelation technique. <i>Geophysical Journal International</i> , 2007, 168, 779-796.	1.0	93
9	Direct Inversion of Spatial Autocorrelation Curves with the Neighborhood Algorithm. <i>Bulletin of the Seismological Society of America</i> , 2005, 95, 1787-1800.	1.1	91
10	Deriving Wavefield Characteristics and Shear-Velocity Profiles from Two- Dimensional Small-Aperture Arrays Analysis of Ambient Vibrations in a Small-Size Alluvial Basin, Colfiorito, Italy. <i>Bulletin of the Seismological Society of America</i> , 2006, 96, 1915-1933.	1.1	85
11	Exploring the model space and ranking a best class of models in surface-wave dispersion inversion: Application at European strong-motion sites. <i>Geophysics</i> , 2012, 77, B147-B166.	1.4	56
12	Rayleigh wave three-component beamforming: signed ellipticity assessment from high-resolution frequency-wavenumber processing of ambient vibration arrays. <i>Geophysical Journal International</i> , 2018, 215, 507-523.	1.0	45
13	Characterization of site conditions (soil class, VS30, velocity profiles) for 33 stations from the French permanent accelerometric network (RAP) using surface-wave methods. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 2337-2365.	2.3	36
14	From Non-invasive Site Characterization to Site Amplification: Recent Advances in the Use of Ambient Vibration Measurements. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2010, , 105-123.	0.1	33
15	The San Andreas Fault revisited through seismic-noise and surface-wave tomography. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	32
16	Influence of parameterization on inversion of surface wave dispersion curves and definition of an inversion strategy for sites with a strong VS contrast. <i>Geophysics</i> , 2010, 75, B197-B209.	1.4	30
17	Morphology, structure and kinematics of a rainfall controlled slow-moving Andean landslide, Peru. <i>Earth Surface Processes and Landforms</i> , 2016, 41, 1477-1493.	1.2	30
18	Anatomy of a fumarolic system inferred from a multiphysics approach. <i>Scientific Reports</i> , 2018, 8, 7580.	1.6	27

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19	High-resolution shallow seismic tomography of a hydrothermal area: application to the Solfatara, Pozzuoli. <i>Geophysical Journal International</i> , 2012, 189, 1725-1733.	1.0	20
20	The Relationship between Ambient Vibration H/V and SH Transfer Function: Some Experimental Results. <i>Seismological Research Letters</i> , 2016, 87, 1112-1119.	0.8	20
21	Multimethod Characterization of the French-Pyrenean Valley of Bagneres-de-Bigorre for Seismic-Hazard Evaluation: Observations and Models. <i>Bulletin of the Seismological Society of America</i> , 2011, 101, 1912-1937.	1.1	18
22	Investigation of a fractured limestone cliff (Chartreuse Massif, France) using seismic tomography and ground-penetrating radar. <i>Near Surface Geophysics</i> , 2003, 1, 161-170.	0.6	17
23	An assessment of uncertainties in VS profiles obtained from microtremor observations in the phased 2018 COSMOS blind trials. <i>Journal of Seismology</i> , 2022, 26, 757-780.	0.6	11
24	Data-based diffraction kernels for surface waves from convolution and correlation processes through active seismic interferometry. <i>Geophysical Journal International</i> , 2018, 214, 1468-1480.	1.0	8
25	Multi-method investigation of mass transfer mechanisms in a retrogressive clayey landslide (Harmalière, French Alps). <i>Landslides</i> , 2021, 18, 1981.	2.7	8
26	A review of inverse methods in seismic site characterization. <i>Journal of Seismology</i> , 2022, 26, 781-821.	0.6	6
27	Geoacoustic inversion with two source-receiver arrays in shallow water. <i>Journal of the Acoustical Society of America</i> , 2010, 128, 702-710.	0.5	5
28	Efficiency of ambient vibration HVSR investigations in soil engineering studies: backfill study in the Algiers (Algeria) harbor container terminal. <i>Bulletin of Engineering Geology and the Environment</i> , 2019, 78, 4989-5000.	1.6	4
29	Phase-velocity inversion from data-based diffraction kernels: seismic Michelson interferometer. <i>Geophysical Journal International</i> , 2020, 224, 1287-1300.	1.0	2
30	Analyst C: Geopsy Processing of MASW and Ambient Vibration Arrays for Vs Assessment of the UTexas1 Surface Wave Dataset. , 2014, , .		0
31	Influence of the Parameterization and a Priori Information on the Inversion of Surface Waves " Parametrical Study and Application. , 2007, , .		0