

Sebastiano Foti

List of Publications by Year in descending order

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84
papers

3,449
citations

218381

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161609

54
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85
all docs

85
docs citations

85
times ranked

1948
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface-wave analysis for building near-surface velocity models – Established approaches and new perspectives. <i>Geophysics</i> , 2010, 75, 75A83-75A102.	1.4	394
2	Guidelines for the good practice of surface wave analysis: a product of the InterPACIFIC project. <i>Bulletin of Earthquake Engineering</i> , 2018, 16, 2367-2420.	2.3	334
3	Application of Surface-Wave Methods for Seismic Site Characterization. <i>Surveys in Geophysics</i> , 2011, 32, 777-825.	2.1	180
4	Surface Wave Methods for Near-Surface Site Characterization. , 0, , .		148
5	InterPACIFIC project: Comparison of invasive and non-invasive methods for seismic site characterization. Part I: Intra-comparison of surface wave methods. <i>Soil Dynamics and Earthquake Engineering</i> , 2016, 82, 222-240.	1.9	145
6	Non-uniqueness in surface-wave inversion and consequences on seismic site response analyses. <i>Soil Dynamics and Earthquake Engineering</i> , 2009, 29, 982-993.	1.9	142
7	A new misfit function for multimodal inversion of surface waves. <i>Geophysics</i> , 2010, 75, G31-G43.	1.4	124
8	Simultaneous measurement and inversion of surface wave dispersion and attenuation curves. <i>Soil Dynamics and Earthquake Engineering</i> , 2002, 22, 923-930.	1.9	118
9	InterPACIFIC project: Comparison of invasive and non-invasive methods for seismic site characterization. Part II: Inter-comparison between surface-wave and borehole methods. <i>Soil Dynamics and Earthquake Engineering</i> , 2016, 82, 241-254.	1.9	110
10	Multi-offset phase analysis of surface wave data (MOPA). <i>Journal of Applied Geophysics</i> , 2006, 59, 300-313.	0.9	103
11	Influence of Foundation Scour on the Dynamic Response of an Existing Bridge. <i>Journal of Bridge Engineering</i> , 2011, 16, 295-304.	1.4	102
12	A Monte Carlo multimodal inversion of surface waves. <i>Geophysical Journal International</i> , 2010, 182, 1557-1566.	1.0	99
13	Laterally constrained inversion of ground roll from seismic reflection records. <i>Geophysics</i> , 2009, 74, C35-C45.	1.4	97
14	Propagation of Data Uncertainty in Surface Wave Inversion. <i>Journal of Environmental and Engineering Geophysics</i> , 2005, 10, 219-228.	1.0	92
15	International Benchmark on Numerical Simulations for 1D, Nonlinear Site Response (PRENOLIN): Verification Phase Based on Canonical Cases. <i>Bulletin of the Seismological Society of America</i> , 2016, 106, 2112-2135.	1.1	91
16	Local Site Effects and Incremental Damage of Buildings during the 2016 Central Italy Earthquake Sequence. <i>Earthquake Spectra</i> , 2018, 34, 1639-1669.	1.6	78
17	Reliability of VS,30 Evaluation from Surface-Wave Tests. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2011, 137, 579-586.	1.5	56
18	Simultaneous Measurement of Surface Wave Dispersion and Attenuation Curves. <i>Geotechnical Testing Journal</i> , 2001, 24, 350-358.	0.5	56

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19	Experiments of joint acquisition of seismic refraction and surface wave data. Near Surface Geophysics, 2003, 1, 119-129.	0.6	45
20	Imaging heterogeneities with electrical impedance tomography: laboratory results. Geotechnique, 2005, 55, 539-547.	2.2	37
21	Surface wave surveys for seismic site characterization of accelerometric stations in ITACA. Bulletin of Earthquake Engineering, 2011, 9, 1797-1820.	2.3	37
22	Checking the site categorization criteria and amplification factors of the 2021 draft of Eurocode 8 Part 1. Bulletin of Earthquake Engineering, 2021, 19, 4199-4234.	2.3	37
23	Constrained 1D joint inversion of seismic surface waves and P-wave refraction traveltimes. Geophysical Prospecting, 2013, 61, 77-93.	1.0	36
24	Reconnaissance of 2016 Central Italy Earthquake Sequence. Earthquake Spectra, 2018, 34, 1547-1555.	1.6	36
25	Influence of Epistemic Uncertainty in Shear Wave Velocity on Seismic Ground Response Analyses. Earthquake Spectra, 2019, 35, 929-954.	1.6	30
26	A new geostatistical model for shear wave velocity profiles. Soil Dynamics and Earthquake Engineering, 2020, 136, 106247.	1.9	30
27	Porosity of fluid-saturated porous media from measured seismic wave velocities. Geotechnique, 2002, 52, 359-373.	2.2	29
28	Seismic characterization of an Alpine site. Near Surface Geophysics, 2008, 6, 255-267.	0.6	27
29	Estimation of the hydraulic parameters of unsaturated samples by electrical resistivity tomography. Geotechnique, 2012, 62, 583-594.	2.2	26
30	PRENOLIN: International Benchmark on 1D Nonlinear Site-Response Analysis-Validation Phase Exercise. Bulletin of the Seismological Society of America, 2018, , .	1.1	26
31	Dynamic characterization of fine-grained soils in Central Italy by laboratory testing. Bulletin of Earthquake Engineering, 2020, 18, 5503-5531.	2.3	25
32	Blast-induced liquefaction in silty sands for full-scale testing of ground improvement methods: Insights from a multidisciplinary study. Engineering Geology, 2020, 265, 105437.	2.9	24
33	Some Notes on Model Parameters for Surface Wave Data Inversion. , 2002, , .		23
34	Using transfer function for estimating dissipative properties of soils from surface-wave data. Near Surface Geophysics, 2004, 2, 231-240.	0.6	22
35	3D-electrical resistivity tomography monitoring of salt transport in homogeneous and layered soil samples. Acta Geotechnica, 2011, 6, 195-203.	2.9	22
36	Surface Wave Testing for Geotechnical Characterization. , 2005, , 47-71.		21

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37	Seismic characterization of shallow bedrock sites with multimodal Monte Carlo inversion of surface wave data. <i>Soil Dynamics and Earthquake Engineering</i> , 2011, 31, 530-534.	1.9	21
38	A Multidisciplinary Study on the Seismic Vulnerability of St. Agostino Church in Amatrice following the 2016 Seismic Sequence. <i>International Journal of Architectural Heritage</i> , 2020, 14, 885-902.	1.7	20
39	Spatial Sampling Issues in FK Analysis of Surface Waves. , 2002, , .		18
40	Evaluation of porosity and degree of saturation from seismic and electrical data. <i>Geotechnique</i> , 2014, 64, 278-286.	2.2	18
41	The first Italian blast-induced liquefaction test (Mirabello, Emilia-Romagna, Italy): description of the experiment and preliminary results. <i>Annals of Geophysics</i> , 2017, 60, .	0.5	18
42	Geotechnical Aspects of the L'Aquila Earthquake. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2012, , 1-66.	0.1	16
43	Surface Wave Tests for Vibration Mitigation Studies. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2007, 133, 1320-1324.	1.5	14
44	The role of aftershocks in the liquefaction phenomena caused by the Emilia 2012 seismic sequence. <i>Soil Dynamics and Earthquake Engineering</i> , 2015, 75, 234-245.	1.9	12
45	The Polito Surface Wave flat-file Database (PSWD): statistical properties of test results and some inter-method comparisons. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 2343-2370.	2.3	12
46	Surface wave analysis for S-wave static correction computation. , 2010, , .		11
47	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
48	Joint Inversion of VES and Surface Wave Data. , 2002, , .		10
49	Comment on "Shear wave profiles from surface wave inversion: the impact of uncertainty on seismic site response analysis". <i>Journal of Geophysics and Engineering</i> , 2012, 9, 241-243.	0.7	9
50	Building 3D Shear-Wave Velocity Models Using Surface Waves Testing: The Tarcento Basin Case History. <i>Bulletin of the Seismological Society of America</i> , 2013, 103, 1038-1047.	1.1	9
51	Geophysical Monitoring of Blast-induced Liquefaction at the Mirabello (NE Italy) Test Site. <i>Journal of Environmental and Engineering Geophysics</i> , 2018, 23, 319-333.	1.0	9
52	Some Notes On Model Parameters For Surface Wave Data Inversion. , 2002, , .		9
53	Scale properties of the seismic wavefield perspectives for full-waveform matching. <i>Geophysics</i> , 2011, 76, A37-A44.	1.4	8
54	Spatial Sampling Issues In Fk Analysis Of Surface Waves. , 2002, , .		8

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55	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
56	Characterization of Blast Effects on Surrounding Soil: Internal Detonations in Underground Pipes. Applied Mechanics and Materials, 0, 82, 302-307.	0.2	6
57	Laterally constrained inversion of surface wave data at Najaf city (Iraq). Soil Dynamics and Earthquake Engineering, 2013, 45, 89-95.	1.9	6
58	Geophysical and Geotechnical Investigations for Ground Response Analyses. , 2004, , 101-137.		5
59	Discussion on "Implications of surface wave data measurement uncertainty on seismic ground response analysis" by Jakka et al.. Soil Dynamics and Earthquake Engineering, 2015, 74, 89-91.	1.9	5
60	Dynamic behavior of shallow founded historic towers: validation of simplified approaches for seismic analyses. International Journal of Geotechnical Engineering, 2015, 9, 13-29.	1.1	5
61	Assessment of the structural representativeness of sample data sets for the mechanical characterization of deep formations. Geophysics, 2015, 80, D441-D457.	1.4	5
62	Experimental assessment of the performance of a bridge pier subjected to flood-induced foundation scour. Geotechnique, 2022, 72, 998-1015.	2.2	5
63	Monitoring 3D diffusion processes with high-speed electric tomography. The Leading Edge, 2008, 27, 468-471.	0.4	4
64	Hydro-chemo-mechanical processes in soil samples: monitoring through electrical resistivity tomography. EPJ Web of Conferences, 2010, 6, 22012.	0.1	4
65	Joint inversion of surface wave, refracted P-wave, and apparent resistivity data to retrieve porosity of saturated layers. , 2013, , .		4
66	Comment on "Effect of surface wave inversion non-uniqueness on 1D seismic ground response analysis" by Roy et al.. Natural Hazards, 2015, 75, 975-981.	1.6	4
67	A preliminary assessment of uncertainties attributed by analysts, array types and processing algorithms for microtremor observations, via the COSMOS Blind Trials. ASEG Extended Abstracts, 2019, 2019, 1-4.	0.1	4
68	Obtaining reliable S-wave velocity depth profile by joint inversion of geophysical data: the combination of active surface-wave, seismic refraction and electric sounding data. Near Surface Geophysics, 2020, 18, 659-682.	0.6	4
69	Uncertainties in Small-Strain Damping Ratio Evaluation and Their Influence on Seismic Ground Response Analyses. Springer Transactions in Civil and Environmental Engineering, 2021, , 175-213.	0.3	4
70	Consequences of Solution Non-Uniqueness in Surface Wave Tests for Seismic Response Studies. , 2008, , .		3
71	4. Advances in Surface-Wave and Body-Wave Integration. , 2010, , 55-73.		3
72	Numerical modelling of drop load tests. Soil Dynamics and Earthquake Engineering, 2015, 77, 279-289.	1.9	3

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73	Improved implementation of travel time randomization for incorporating Vs uncertainty in seismic ground response. Soil Dynamics and Earthquake Engineering, 2022, 157, 107277.	1.9	3
74	A note on finite deformation consolidation models. Mathematical and Computer Modelling, 1998, 28, 1-7.	2.0	2
75	Statistical Regression of Phase Difference in Surface Wave Data. , 2003, , .		2
76	Joint Inversion Of Ves And Surface Wave Data. , 2002, , .		2
77	5. Engineering and Environmental Geophysics. , 2010, , 89-110.		1
78	Reliability and Accuracy of Seismic Tests in Geotechnical Site Characterization. Developments in Geotechnical Engineering, 2018, , 187-206.	0.6	1
79	Influence of the Uncertainty in Bedrock Characteristics on Seismic Hazard: A Case Study in Italy. , 2018, , .		1
80	Joint inversion of seismic and electrical data in saturated porous media. Near Surface Geophysics, 0, , .	0.6	1
81	Forward and Inverse Modeling of Uncertainty in Surface Wave Propagation. , 2006, , 1.		0
82	Parametric study of cantilever walls subjected to seismic loading. AIP Conference Proceedings, 2008, , .	0.3	0
83	Influence of Strong Motion Records Characteristics on Numerical Simulations of Soil Liquefaction. , 2018, , .		0
84	Spatially Constrained Inversion of Surface Wave Data to Build Shear Wave Velocity Models. Geotechnical, Geological and Earthquake Engineering, 2014, , 3-21.	0.1	0