

Sebastiano Foti

List of Publications by Year in descending order

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Version: 2024-02-01

84
papers

3,449
citations

218381

26
h-index

161609

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85
all docs

85
docs citations

85
times ranked

1948
citing authors

#	ARTICLE	IF	CITATIONS
1	Experimental assessment of the performance of a bridge pier subjected to flood-induced foundation scour. <i>Geotechnique</i> , 2022, 72, 998-1015.	2.2	5
2	Improved implementation of travel time randomization for incorporating Vs uncertainty in seismic ground response. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 157, 107277.	1.9	3
3	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
4	Uncertainties in Small-Strain Damping Ratio Evaluation and Their Influence on Seismic Ground Response Analyses. <i>Springer Transactions in Civil and Environmental Engineering</i> , 2021, , 175-213.	0.3	4
5	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
6	Checking the site categorization criteria and amplification factors of the 2021 draft of Eurocode 8 Part 1. <i>Bulletin of Earthquake Engineering</i> , 2021, 19, 4199-4234.	2.3	37
7	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
8	Dynamic characterization of fine-grained soils in Central Italy by laboratory testing. <i>Bulletin of Earthquake Engineering</i> , 2020, 18, 5503-5531.	2.3	25
9	Blast-induced liquefaction in silty sands for full-scale testing of ground improvement methods: Insights from a multidisciplinary study. <i>Engineering Geology</i> , 2020, 265, 105437.	2.9	24
10	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. <i>Near Surface Geophysics</i> , 2020, 18, 659-682.	0.6	4
11	A new geostatistical model for shear wave velocity profiles. <i>Soil Dynamics and Earthquake Engineering</i> , 2020, 136, 106247.	1.9	30
12	Influence of Epistemic Uncertainty in Shear Wave Velocity on Seismic Ground Response Analyses. <i>Earthquake Spectra</i> , 2019, 35, 929-954.	1.6	30
13	A preliminary assessment of uncertainties attributed by analysts, array types and processing algorithms for microtremor observations, via the COSMOS Blind Trials. <i>ASEG Extended Abstracts</i> , 2019, 2019, 1-4.	0.1	4
14	Reliability and Accuracy of Seismic Tests in Geotechnical Site Characterization. <i>Developments in Geotechnical Engineering</i> , 2018, , 187-206.	0.6	1
15	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
16	PRENOLIN: International Benchmark on 1D Nonlinear Site-Response Analysis-Validation Phase Exercise. <i>Bulletin of the Seismological Society of America</i> , 2018, , .	1.1	26
17	Influence of Strong Motion Records Characteristics on Numerical Simulations of Soil Liquefaction. , 2018, , .		0
18	Reconnaissance of 2016 Central Italy Earthquake Sequence. <i>Earthquake Spectra</i> , 2018, 34, 1547-1555.	1.6	36

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19	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
20	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
21	Influence of the Uncertainty in Bedrock Characteristics on Seismic Hazard: A Case Study in Italy. , 2018, , .		1
22	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
23	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
24	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
25	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
26	Comment on "Effect of surface wave inversion non-uniqueness on 1D seismic ground response analysis" by Roy et al.. <i>Natural Hazards</i> , 2015, 75, 975-981.	1.6	4
27	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
28	Numerical modelling of drop load tests. <i>Soil Dynamics and Earthquake Engineering</i> , 2015, 77, 279-289.	1.9	3
29	Discussion on "Implications of surface wave data measurement uncertainty on seismic ground response analysis" by Jakka et al.. <i>Soil Dynamics and Earthquake Engineering</i> , 2015, 74, 89-91.	1.9	5
30	Dynamic behavior of shallow founded historic towers: validation of simplified approaches for seismic analyses. <i>International Journal of Geotechnical Engineering</i> , 2015, 9, 13-29.	1.1	5
31	Assessment of the structural representativeness of sample data sets for the mechanical characterization of deep formations. <i>Geophysics</i> , 2015, 80, D441-D457.	1.4	5
32	Evaluation of porosity and degree of saturation from seismic and electrical data. <i>Geotechnique</i> , 2014, 64, 278-286.	2.2	18
33	Spatially Constrained Inversion of Surface Wave Data to Build Shear Wave Velocity Models. <i>Geotechnical, Geological and Earthquake Engineering</i> , 2014, , 3-21.	0.1	0
34	Constrained 1D joint inversion of seismic surface waves and P-wave refraction traveltimes. <i>Geophysical Prospecting</i> , 2013, 61, 77-93.	1.0	36
35	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
36	Laterally constrained inversion of surface wave data at Najaf city (Iraq). <i>Soil Dynamics and Earthquake Engineering</i> , 2013, 45, 89-95.	1.9	6

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37	Joint inversion of surface wave, refracted P-wave, and apparent resistivity data to retrieve porosity of saturated layers. , 2013, , .		4
38	Estimation of the hydraulic parameters of unsaturated samples by electrical resistivity tomography. Geotechnique, 2012, 62, 583-594.	2.2	26
39	Comment on "Shear wave profiles from surface wave inversion: the impact of uncertainty on seismic site response analysis"™. Journal of Geophysics and Engineering, 2012, 9, 241-243.	0.7	9
40	Geotechnical Aspects of the L'Aquila Earthquake. Geotechnical, Geological and Earthquake Engineering, 2012, , 1-66.	0.1	16
41	Influence of Foundation Scour on the Dynamic Response of an Existing Bridge. Journal of Bridge Engineering, 2011, 16, 295-304.	1.4	102
42	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
43	Application of Surface-Wave Methods for Seismic Site Characterization. Surveys in Geophysics, 2011, 32, 777-825.	2.1	180
44	Surface wave surveys for seismic site characterization of accelerometric stations in ITACA. Bulletin of Earthquake Engineering, 2011, 9, 1797-1820.	2.3	37
45	3D-electrical resistivity tomography monitoring of salt transport in homogeneous and layered soil samples. Acta Geotechnica, 2011, 6, 195-203.	2.9	22
46	Seismic characterization of shallow bedrock sites with multimodal Monte Carlo inversion of surface wave data. Soil Dynamics and Earthquake Engineering, 2011, 31, 530-534.	1.9	21
47	Reliability of VS,30 Evaluation from Surface-Wave Tests. Journal of Geotechnical and Geoenvironmental Engineering - ASCE, 2011, 137, 579-586.	1.5	56
48	Scale properties of the seismic wavefield perspectives for full-waveform matching. Geophysics, 2011, 76, A37-A44.	1.4	8
49	Surface wave analysis for S-wave static correction computation. , 2010, , .		11
50	Hydro-chemo-mechanical processes in soil samples: monitoring through electrical resistivity tomography. EPJ Web of Conferences, 2010, 6, 22012.	0.1	4
51	A Monte Carlo multimodal inversion of surface waves. Geophysical Journal International, 2010, 182, 1557-1566.	1.0	99
52	5. Engineering and Environmental Geophysics. , 2010, , 89-110.		1
53	A new misfit function for multimodal inversion of surface waves. Geophysics, 2010, 75, G31-G43.	1.4	124
54	4. Advances in Surface-Wave and Body-Wave Integration. , 2010, , 55-73.		3

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55	Surface-wave analysis for building near-surface velocity models – Established approaches and new perspectives. <i>Geophysics</i> , 2010, 75, 75A83-75A102.	1.4	394
56	Laterally constrained inversion of ground roll from seismic reflection records. <i>Geophysics</i> , 2009, 74, G35-G45.	1.4	97
57	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
58	Parametric study of cantilever walls subjected to seismic loading. <i>AIP Conference Proceedings</i> , 2008, , .	0.3	0
59	Consequences of Solution Non-Uniqueness in Surface Wave Tests for Seismic Response Studies. , 2008, , .		3
60	Monitoring 3D diffusion processes with high-speed electric tomography. <i>The Leading Edge</i> , 2008, 27, 468-471.	0.4	4
61	Seismic characterization of an Alpine site. <i>Near Surface Geophysics</i> , 2008, 6, 255-267.	0.6	27
62	Surface Wave Tests for Vibration Mitigation Studies. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , 2007, 133, 1320-1324.	1.5	14
63	Forward and Inverse Modeling of Uncertainty in Surface Wave Propagation. , 2006, , 1.		0
64	Multi-offset phase analysis of surface wave data (MOPA). <i>Journal of Applied Geophysics</i> , 2006, 59, 300-313.	0.9	103
65	Imaging heterogeneities with electrical impedance tomography: laboratory results. <i>Geotechnique</i> , 2005, 55, 539-547.	2.2	37
66	Surface Wave Testing for Geotechnical Characterization. , 2005, , 47-71.		21
67	Propagation of Data Uncertainty in Surface Wave Inversion. <i>Journal of Environmental and Engineering Geophysics</i> , 2005, 10, 219-228.	1.0	92
68	Using transfer function for estimating dissipative properties of soils from surface wave data. <i>Near Surface Geophysics</i> , 2004, 2, 231-240.	0.6	22
69	Geophysical and Geotechnical Investigations for Ground Response Analyses. , 2004, , 101-137.		5
70	Experiments of joint acquisition of seismic refraction and surface wave data. <i>Near Surface Geophysics</i> , 2003, 1, 119-129.	0.6	45
71	Statistical Regression of Phase Difference in Surface Wave Data. , 2003, , .		2
72	Joint Inversion of VES and Surface Wave Data. , 2002, , .		10

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73	Spatial Sampling Issues in FK Analysis of Surface Waves. , 2002, , .		18
74	Some Notes on Model Parameters for Surface Wave Data Inversion. , 2002, , .		23
75	Simultaneous measurement and inversion of surface wave dispersion and attenuation curves. Soil Dynamics and Earthquake Engineering, 2002, 22, 923-930.	1.9	118
76	Porosity of fluid-saturated porous media from measured seismic wave velocities. Geotechnique, 2002, 52, 359-373.	2.2	29
77	Some Notes On Model Parameters For Surface Wave Data Inversion. , 2002, , .		9
78	Joint Inversion Of Ves And Surface Wave Data. , 2002, , .		2
79	Spatial Sampling Issues In Fk Analysis Of Surface Waves. , 2002, , .		8
80	Simultaneous Measurement of Surface Wave Dispersion and Attenuation Curves. Geotechnical Testing Journal, 2001, 24, 350-358.	0.5	56
81	A note on finite deformation consolidation models. Mathematical and Computer Modelling, 1998, 28, 1-7.	2.0	2
82	Characterization of Blast Effects on Surrounding Soil: Internal Detonations in Underground Pipes. Applied Mechanics and Materials, 0, 82, 302-307.	0.2	6
83	Surface Wave Methods for Near-Surface Site Characterization. , 0, , .		148
84	Joint inversion of seismic and electrical data in saturated porous media. Near Surface Geophysics, 0, , .	0.6	1