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Improved parameterization to invert Rayleigh-wave data for shallow profiles containing stiff inclusions

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#	Paper	IF	Citations
50	Historical Overview of the Surface Wave Method. <b>2007</b> ,		5
49	Generation of a pseudo-2D shear-wave velocity section by inversion of a series of 1D dispersion curves. <i>Journal of Applied Geophysics</i> , <b>2008</b> , 64, 115-124	1.7	22
48	Improved Monte Carlo inversion of surface wave data. <i>Geophysical Prospecting</i> , <b>2008</b> , 56, 357-371	1.9	111
47	Rayleigh-Wave Dispersive Energy Imaging by High-Resolution Linear Radon Transform. <b>2008</b> ,		1
46	Considerations for Interpreting Surface Wave Data in Sites with Shallow Bedrock. <b>2008</b> ,		2
45	Levee Evaluation Using MASW: Preliminary Findings from the Citrus Lakefront Levee, New Orleans, Louisiana. <b>2008</b> ,		5
44	A trade-off between model resolution and variance with selected Rayleigh-wave data. <b>2008</b> ,		
43	Laterally constrained inversion of ground roll from seismic reflection records. <i>Geophysics</i> , <b>2009</b> , 74, G35-G45	1.4	72
42	High-frequency Rayleigh-Wave method. <i>Journal of Earth Science (Wuhan, China)</i> , <b>2009</b> , 20, 563-579	2.2	52
41	Addressing non-uniqueness in linearized multichannel surface wave inversion. <i>Geophysical Prospecting</i> , <b>2009</b> , 57, 27-47	1.9	46
40	Role of Forward Model in Surface-Wave Studies to Delineate a Buried High-Velocity Layer. <i>Journal of Environmental and Engineering Geophysics</i> , <b>2009</b> , 14, 1-14	1	7
39	Estimation of near-surface shear-wave velocity by inversion of Love waves. <b>2009</b> ,		3
38	Revisiting SH-Wave Data Using Love-Wave Analysis. <b>2010</b> ,		
37	Improving MASW Results for a Site with Shallow Bedrock through the Use of Higher-Mode Data. <b>2010</b> ,		10
36	Bayesian inversion of microtremor array dispersion data in southwestern British Columbia. <i>Geophysical Journal International</i> , <b>2010</b> , 183, 923-940	2.6	33
35	Retrieving lateral variations from surface wave dispersion curves. <i>Geophysical Prospecting</i> , <b>2010</b> , 58, 977	1.9	43
34	5. Engineering and Environmental Geophysics. <b>2010</b> , 89-110		1

33	Surface-wave analysis for building near-surface velocity models [Established approaches and new perspectives. <i>Geophysics</i> , <b>2010</b> , 75, 75A83-75A102	3.1	266
32	Joint analysis of Rayleigh- and Love-wave dispersion: Issues, criteria and improvements. <i>Journal of Applied Geophysics</i> , <b>2011</b> , 75, 573-589	1.7	39
31	Multi-Channel Analysis of Surface Waves (MASW) in Karst Terrain, Southwest Georgia: Implications for Detecting Anomalous Features and Fracture Zones. <b>2011</b> ,		
30	Global surface wave inversion with model constraints [ <i>Geophysical Prospecting</i> , <b>2011</b> , 59, 210-226	1.9	25
29	Analysis of group-velocity dispersion of high-frequency Rayleigh waves for near-surface applications. <i>Journal of Applied Geophysics</i> , <b>2011</b> , 74, 157-165	1.7	27
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27	Two-Dimensional Inversion of Full Waveforms Using Simulated Annealing. <i>Journal of Geotechnical and Geoenvironmental Engineering - ASCE</i> , <b>2012</b> , 138, 1075-1090	3.4	26
26	One-Dimensional Inversion of Full Waveforms using a Genetic Algorithm. <i>Journal of Environmental and Engineering Geophysics</i> , <b>2012</b> , 17, 197-213	1	16
25	An improved vacuum formulation for 2D finite-difference modeling of Rayleigh waves including surface topography and internal discontinuities. <i>Geophysics</i> , <b>2012</b> , 77, T1-T9	3.1	54
24	Multi-channel Analysis of Surface Waves (MASW) in Karst Terrain, Southwest Georgia: Implications for Detecting Anomalous Features and Fracture Zones. <i>Journal of Environmental and Engineering Geophysics</i> , <b>2012</b> , 17, 129-150	1	18
23	Advantages of Using Multichannel Analysis of Love Waves (MALW) to Estimate Near-Surface Shear-Wave Velocity. <i>Surveys in Geophysics</i> , <b>2012</b> , 33, 841-860	7.6	76
22	Constrained 1D joint inversion of seismic surface waves and P-refraction traveltimes. <i>Geophysical Prospecting</i> , <b>2013</b> , 61, 77-93	1.9	21
21	Ground structure imaging by inversions of Rayleigh wave ellipticity: sensitivity analysis and application to European strong-motion sites. <i>Geophysical Journal International</i> , <b>2013</b> , 192, 207-229	2.6	66
20	Shallow-to-deep shear wave velocity profiling by surface waves in complex ground for enhanced seismic microzonation of Las Vegas, Nevada. <i>Soil Dynamics and Earthquake Engineering</i> , <b>2013</b> , 44, 168-182	2.5	7
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12	Dispersion features of transmitted channel waves and inversion of coal seam thickness. <i>Acta Geophysica</i> , <b>2018</b> , 66, 1001-1009	2.2	10
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4	Analysis of Surface Waves from 9-C 2-D Seismic Data. <b>2008</b> ,		1
3	Forward modeling of Rayleigh surface waves for analytical characterization of dominant dispersion trends. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2022</b> , 51, 240	4	1
2	Surface-Wave Sensitivity to a High-Velocity Inclusion. <b>2007</b> ,		1
1	Rayleigh-wave Phase Velocities and Spectral Amplitudes Affected by Insertion of an Anomalous Velocity Layer in the Overburden. <i>Geophysics and Geophysical Exploration</i> , <b>2012</b> , 15, 155-162		