

Jianghai Xia

List of Publications by Year in descending order

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105
papers

8,856
citations

81743

39
h-index

48187

88
g-index

107
all docs

107
docs citations

107
times ranked

2202
citing authors

#	ARTICLE	IF	CITATIONS
1	Passive Surface-Wave Waveform Inversion for Source-Velocity Joint Imaging. <i>Surveys in Geophysics</i> , 2022, 43, 853-881.	2.1	9
2	Near-surface imaging from traffic-induced surface waves with dense linear arrays: An application in the urban area of Hangzhou, China. <i>Geophysics</i> , 2022, 87, B145-B158.	1.4	33
3	Wavefield-Separated Full-Waveform Inversion of Shallow-Seismic Rayleigh Waves. <i>Pure and Applied Geophysics</i> , 2022, 179, 1583-1596.	0.8	6
4	Common-midpoint two-station analysis of estimating phase velocity using high-frequency ambient noise. <i>Soil Dynamics and Earthquake Engineering</i> , 2022, 159, 107356.	1.9	2
5	Groundwater Flow Rate Prediction From Geo-Electrical Features Using Support Vector Machines. <i>Water Resources Research</i> , 2022, 58, .	1.7	6
6	Deep Learning for Extracting Dispersion Curves. <i>Surveys in Geophysics</i> , 2021, 42, 69-95.	2.1	44
7	Modified Frequency-Bessel Transform Method for Dispersion Imaging of Rayleigh Wave from Ambient Seismic Noise. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 660, 012049.	0.2	0
8	An Automated Segment Selection Algorithm Based on the Assessment of Surface Wave Characteristic in Ambient Noise Recordings. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 660, 012041.	0.2	0
9	Estimation of near-surface shear-wave velocity by joint inversion of dispersion and HVSR curves of Rayleigh waves from multicomponent active-seismic records. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 660, 012056.	0.2	0
10	Urban near-surface imaging from ambient noise tomography using dense seismic networks. <i>IOP Conference Series: Earth and Environmental Science</i> , 2021, 660, 012058.	0.2	2
11	Phase-weighted slant stacking for surface wave dispersion measurement. <i>Geophysical Journal International</i> , 2021, 226, 256-269.	1.0	15
12	Near-Surface Geothermal Reservoir Imaging based on the Customized Dense Seismic Network. <i>Surveys in Geophysics</i> , 2021, 42, 673-697.	2.1	21
13	Improving the retrieval of high-frequency surface waves from ambient noise through multichannel-coherency-weighted stack. <i>Geophysical Journal International</i> , 2021, 227, 776-785.	1.0	15
14	High-Resolution Ambient Noise Imaging of Geothermal Reservoir Using 3C Dense Seismic Nodal Array and Ultra-Short Observation. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021827.	1.4	23
15	Modified frequency-Bessel transform method for dispersion imaging of Rayleigh waves from ambient seismic noise. <i>Geophysical Journal International</i> , 2021, 225, 1271-1280.	1.0	35
16	Multisource multichannel analysis of surface waves for near-surface characterization in urban areas. , 2021, , .		0
17	Pseudo-linear-array analysis of passive surface waves based on beamforming. <i>Geophysical Journal International</i> , 2020, 221, 640-650.	1.0	38
18	Estimating Near-Surface Shear-Wave-Velocity Structures Via Multichannel Analysis of Rayleigh and Love Waves: An Experiment at the Boise Hydrogeophysical Research Site. <i>Surveys in Geophysics</i> , 2020, 41, 323-341.	2.1	38

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19	Comparisons between non-interferometric and interferometric passive surface wave imaging methods “Towards linear receiver array.”, 2020, , .		1
20	Segment selection of cultural noise recordings in urban environment to improve quality of surface-wave image. , 2020, , .		0
21	Estimation of horizontal-to-vertical spectral ratios (ellipticity) of Rayleigh waves from multistation active-seismic records. Geophysics, 2019, 84, EN81-EN92.	1.4	14
22	Automated Data Selection in the Tau- ρ Domain: Application to Passive Surface Wave Imaging. Surveys in Geophysics, 2019, 40, 1211-1228.	2.1	27
23	Segment selection in cultural noise recordings for imaging near-surface surface waves. , 2019, , .		0
24	Frequency-Wavenumber (FK)-Based Data Selection in High-Frequency Passive Surface Wave Survey. Surveys in Geophysics, 2018, 39, 661-682.	2.1	51
25	Estimating Q Factor from Multi-mode Shallow-Seismic Surface Waves. Pure and Applied Geophysics, 2018, 175, 2609-2622.	0.8	14
26	Dispersion Energy Analysis of Rayleigh and Love Waves in the Presence of Low-Velocity Layers in Near-Surface Seismic Surveys. Surveys in Geophysics, 2018, 39, 271-288.	2.1	42
27	FK-based data selection in high-frequency passive surface-wave survey: Towards traffic noise. , 2018, , .		0
28	Imposing Active Sources during High-Frequency Passive Surface-Wave Measurement. Engineering, 2018, 4, 685-693.	3.2	14
29	A pitfall of muting and removing bad traces in surface-wave analysis. Journal of Applied Geophysics, 2018, 153, 136-142.	0.9	9
30	Q-estimation using seismic interferometry from vertical well data. Journal of Applied Geophysics, 2018, 159, 16-22.	0.9	8
31	Imposing active sources during high-frequency passive surface-wave measurements. , 2018, , .		1
32	Horizontal resolution of multichannel analysis of surface waves. Geophysics, 2017, 82, EN51-EN66.	1.4	73
33	A comprehensive comparison between the refraction microtremor and seismic interferometry methods for phase-velocity estimation. Geophysics, 2017, 82, EN99-EN108.	1.4	29
34	Advantages of Multi-channel Analysis of Passive Surface Waves (MAPS). , 2017, , .		4
35	Reason and Condition for Mode Kissing in MASW Method. Pure and Applied Geophysics, 2016, 173, 1627-1638.	0.8	46
36	Impact of density information on Rayleigh surface wave inversion results. Journal of Applied Geophysics, 2016, 135, 43-54.	0.9	14

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37	Multichannel analysis of Love waves in a 3D seismic acquisition system. <i>Geophysics</i> , 2016, 81, EN67-EN74.	1.4	10
38	Multichannel analysis of passive surface waves based on crosscorrelations. <i>Geophysics</i> , 2016, 81, EN57-EN66.	1.4	99
39	Delineating Shallow <i>S</i> -Wave Velocity Structure Using Multiple Ambient Noise Surface Wave Methods: An Example from Western Junggar, China. <i>Bulletin of the Seismological Society of America</i> , 2016, 106, 327-336.	1.1	36
40	Potential Misidentification of Love-Wave Phase Velocity Based on Three-Component Ambient Seismic Noise. <i>Pure and Applied Geophysics</i> , 2016, 173, 1115-1124.	0.8	7
41	Love-wave waveform inversion in time domain for shallow shear-wave velocity. <i>Geophysics</i> , 2016, 81, R1-R14.	1.4	49
42	Some new findings in high-frequency surface-wave methods. , 2015, , .		2
43	Characteristics of high-frequency surface waves in a multi-layer earth model. , 2015, , .		0
44	Numerical investigation of 3D MASW technique. , 2015, , .		0
45	Finite-difference modeling of SH-wave conversions in shallow shear-wave refraction surveying. <i>Journal of Applied Geophysics</i> , 2015, 119, 71-78.	0.9	8
46	A new passive seismic method based on seismic interferometry and multichannel analysis of surface waves. <i>Journal of Applied Geophysics</i> , 2015, 117, 126-135.	0.9	84
47	Unraveling overtone interferences in Love-wave phase velocity measurements by radon transform. <i>Geophysical Journal International</i> , 2015, 203, 327-333.	1.0	14
48	Estimation of near-surface shear-wave velocities and quality factors using multichannel analysis of surface-wave methods. <i>Journal of Applied Geophysics</i> , 2014, 103, 140-151.	0.9	125
49	Viscoelastic representation of surface waves in patchy saturated poroelastic media. <i>Earthquake Science</i> , 2014, 27, 421-431.	0.4	2
50	Misidentification caused by leaky surface wave in high-frequency surface wave method. <i>Geophysical Journal International</i> , 2014, 199, 1452-1462.	1.0	39
51	Comparative analysis on penetrating depth of high-frequency Rayleigh and Love waves. <i>Journal of Applied Geophysics</i> , 2014, 111, 86-94.	0.9	26
52	Transient responses of porous media under moving surface impulses. <i>International Journal of Solids and Structures</i> , 2014, 51, 660-672.	1.3	8
53	On dispersive propagation of surface waves in patchy saturated porous media. <i>Wave Motion</i> , 2014, 51, 1225-1236.	1.0	7
54	On effective characteristic of Rayleigh surface wave propagation in porous fluid-saturated media at low frequencies. <i>Soil Dynamics and Earthquake Engineering</i> , 2014, 57, 94-103.	1.9	8

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55	Verification of correctness of using real part of complex root as Rayleigh-wave phase velocity with synthetic data. <i>Journal of Applied Geophysics</i> , 2013, 88, 94-100.	0.9	34
56	Calculation of Rayleigh-wave phase velocities due to models with a high-velocity surface layer. <i>Journal of Applied Geophysics</i> , 2013, 96, 1-6.	0.9	39
57	Near-surface shear-wave velocities and quality factors derived from high-frequency surface waves. <i>The Leading Edge</i> , 2013, 32, 612-618.	0.4	18
58	Feasibility of determining Q of near-surface materials from Love waves. <i>Journal of Applied Geophysics</i> , 2013, 95, 47-52.	0.9	13
59	Near-surface shear-wave velocities and quality factors derived from high-frequency surface waves. , 2013, , .		0
60	Surface-wave observations after integrating active and passive source data. <i>The Leading Edge</i> , 2013, 32, 634-637.	0.4	11
61	Feasibility of determining Q of near-surface materials from Love waves. , 2013, , .		0
62	Estimation of near-surface quality factors by constrained inversion of Rayleigh-wave attenuation coefficients. <i>Journal of Applied Geophysics</i> , 2012, 82, 137-144.	0.9	46
63	Numerical investigation of MASW applications in presence of surface topography. <i>Journal of Applied Geophysics</i> , 2012, 84, 52-60.	0.9	31
64	Wave fields and spectra of Rayleigh waves in poroelastic media in the exploration seismic frequency band. <i>Advances in Water Resources</i> , 2012, 49, 62-71.	1.7	22
65	Advantages of Using Multichannel Analysis of Love Waves (MALW) to Estimate Near-Surface Shear-Wave Velocity. <i>Surveys in Geophysics</i> , 2012, 33, 841-860.	2.1	116
66	Analysis of group-velocity dispersion of high-frequency Rayleigh waves for near-surface applications. <i>Journal of Applied Geophysics</i> , 2011, 74, 157-165.	0.9	35
67	Application of the multiaxial perfectly matched layer (M-PML) to near-surface seismic modeling with Rayleigh waves. <i>Geophysics</i> , 2011, 76, T43-T52.	1.4	84
68	A Trade-Off Solution between Model Resolution and Covariance in Surface-Wave Inversion. <i>Pure and Applied Geophysics</i> , 2010, 167, 1537-1547.	0.8	16
69	Finite-Difference Modeling and Dispersion Analysis of High-Frequency Love Waves for Near-Surface Applications. <i>Pure and Applied Geophysics</i> , 2010, 167, 1525-1536.	0.8	33
70	High-frequency Rayleigh-Wave method. <i>Journal of Earth Science (Wuhan, China)</i> , 2009, 20, 563-579.	1.1	66
71	Approximation to Cutoffs of Higher Modes of Rayleigh Waves for a Layered Earth Model. <i>Pure and Applied Geophysics</i> , 2009, 166, 339-351.	0.8	17
72	Dipping-interface Mapping Using Mode-separated Rayleigh Waves. <i>Pure and Applied Geophysics</i> , 2009, 166, 353-374.	0.8	28

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73	Rayleigh-wave mode separation by high-resolution linear Radon transform. <i>Geophysical Journal International</i> , 2009, 179, 254-264.	1.0	100
74	Research on the middle-of-receiver-spread assumption of the MASW method. <i>Soil Dynamics and Earthquake Engineering</i> , 2009, 29, 71-79.	1.9	49
75	Rayleigh-Wave Dispersive Energy Imaging Using a High-Resolution Linear Radon Transform. <i>Pure and Applied Geophysics</i> , 2008, 165, 903-922.	0.8	212
76	Data-resolution Matrix and Model-resolution Matrix for Rayleigh-wave Inversion Using a Damped Least-squares Method. <i>Pure and Applied Geophysics</i> , 2008, 165, 1227-1248.	0.8	19
77	Generation of a pseudo-2D shear-wave velocity section by inversion of a series of 1D dispersion curves. <i>Journal of Applied Geophysics</i> , 2008, 64, 115-124.	0.9	31
78	Multichannel analysis of surface waves (MASW) – active and passive methods. <i>The Leading Edge</i> , 2007, 26, 60-64.	0.4	233
79	Numerical investigation of implementation of air-earth boundary by acoustic-elastic boundary approach. <i>Geophysics</i> , 2007, 72, SM147-SM153.	1.4	98
80	Feasibility of detecting near-surface feature with Rayleigh-wave diffraction. <i>Journal of Applied Geophysics</i> , 2007, 62, 244-253.	0.9	79
81	Joint inversion of high-frequency surface waves with fundamental and higher modes. <i>Journal of Applied Geophysics</i> , 2007, 62, 375-384.	0.9	104
82	Generating an Image of Dispersive Energy by Frequency Decomposition and Slant Stacking. <i>Pure and Applied Geophysics</i> , 2007, 164, 941-956.	0.8	131
83	Integrated Geophysical Techniques in Detecting Hidden Dangers in River Embankments. <i>Journal of Environmental and Engineering Geophysics</i> , 2006, 11, 83-94.	1.0	22
84	Joint analysis of refractions with surface waves: An inverse solution to the refraction-traveltime problem. <i>Geophysics</i> , 2006, 71, R131-R138.	1.4	75
85	Quantitative estimation of minimum offset for multichannel surface-wave survey with actively exciting source. <i>Journal of Applied Geophysics</i> , 2006, 59, 117-125.	0.9	116
86	Simple equations guide high-frequency surface-wave investigation techniques. <i>Soil Dynamics and Earthquake Engineering</i> , 2006, 26, 395-403.	1.9	67
87	Estimation of Elastic Moduli in a Compressible Gibson Half-space by Inverting Rayleigh-wave Phase Velocity. <i>Surveys in Geophysics</i> , 2006, 27, 1-17.	2.1	65
88	Underwater MASW to evaluate stiffness of water-bottom sediments. <i>The Leading Edge</i> , 2005, 24, 724-728.	0.4	67
89	A moving hum filter to suppress rotor noise in high-resolution airborne magnetic data. <i>Geophysics</i> , 2005, 70, G69-G76.	1.4	12
90	Resolution of High-frequency Rayleigh-wave Data. <i>Journal of Environmental and Engineering Geophysics</i> , 2005, 10, 99-110.	1.0	49

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91	Evaluation of MASW Data Acquired with a Hydrophone Streamer in a Shallow Marine Environment. <i>Journal of Environmental and Engineering Geophysics</i> , 2005, 10, 87-98.	1.0	44
92	The Selection of Field Acquisition Parameters for Dispersion Images from Multichannel Surface Wave Data. <i>Pure and Applied Geophysics</i> , 2004, 161, 185-201.	0.8	92
93	Utilization of high-frequency Rayleigh waves in near-surface geophysics. <i>The Leading Edge</i> , 2004, 23, 753-759.	0.4	75
94	Multichannel analysis of surface wave method with the autojuggie. <i>Soil Dynamics and Earthquake Engineering</i> , 2003, 23, 61-65.	1.9	58
95	Inversion of high frequency surface waves with fundamental and higher modes. <i>Journal of Applied Geophysics</i> , 2003, 52, 45-57.	0.9	384
96	Useful resorting in surface wave method with the Autojuggie. <i>Geophysics</i> , 2003, 68, 1906-1908.	1.4	54
97	Determining Q of near-surface materials from Rayleigh waves. <i>Journal of Applied Geophysics</i> , 2002, 51, 121-129.	0.9	168
98	Comparing shear-wave velocity profiles inverted from multichannel surface wave with borehole measurements. <i>Soil Dynamics and Earthquake Engineering</i> , 2002, 22, 181-190.	1.9	217
99	A pitfall in shallow shear-wave refraction surveying. <i>Journal of Applied Geophysics</i> , 2002, 51, 1-9.	0.9	84
100	Advantages of calculating shear-wave velocity from surface waves with higher modes. , 2000, , .		42
101	Comparing Shear-Wave Velocity Profiles from MASW with Borehole Measurements in Unconsolidated Sediments, Fraser River Delta, B.C., Canada. <i>Journal of Environmental and Engineering Geophysics</i> , 2000, 5, 1-13.	1.0	123
102	Multichannel analysis of surface waves to map bedrock. <i>The Leading Edge</i> , 1999, 18, 1392-1396.	0.4	375
103	Multichannel analysis of surface waves. <i>Geophysics</i> , 1999, 64, 800-808.	1.4	2,073
104	Estimation of near-surface shear-wave velocity by inversion of Rayleigh waves. <i>Geophysics</i> , 1999, 64, 691-700.	1.4	1,331
105	Imaging dispersion curves of surface waves on multi-channel record. , 1998, , .		436