

Yixian Xu

List of Publications by Year in descending order

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127
papers

2,860
citations

172207

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h-index

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128
all docs

128
docs citations

128
times ranked

1562
citing authors

#	ARTICLE	IF	CITATIONS
1	Rayleigh-Wave Dispersive Energy Imaging Using a High-Resolution Linear Radon Transform. Pure and Applied Geophysics, 2008, 165, 903-922.	0.8	212
2	Generating an Image of Dispersive Energy by Frequency Decomposition and Slant Stacking. Pure and Applied Geophysics, 2007, 164, 941-956.	0.8	131
3	On the limitations of interstation distances in ambient noise tomography. Geophysical Journal International, 2015, 201, 652-661.	1.0	127
4	Quantitative estimation of minimum offset for multichannel surface-wave survey with actively exciting source. Journal of Applied Geophysics, 2006, 59, 117-125.	0.9	116
5	Advantages of Using Multichannel Analysis of Love Waves (MALW) to Estimate Near-Surface Shear-Wave Velocity. Surveys in Geophysics, 2012, 33, 841-860.	2.1	116
6	Rayleigh-wave mode separation by high-resolution linear Radon transform. Geophysical Journal International, 2009, 179, 254-264.	1.0	100
7	Numerical investigation of implementation of air-earth boundary by acoustic-elastic boundary approach. Geophysics, 2007, 72, SM147-SM153.	1.4	98
8	A new passive seismic method based on seismic interferometry and multichannel analysis of surface waves. Journal of Applied Geophysics, 2015, 117, 126-135.	0.9	84
9	Feasibility of detecting near-surface feature with Rayleigh-wave diffraction. Journal of Applied Geophysics, 2007, 62, 244-253.	0.9	79
10	Crustal structure beneath the Dabie orogenic belt from ambient noise tomography. Earth and Planetary Science Letters, 2012, 313-314, 12-22.	1.8	73
11	Episodic Lithospheric Deformation in Eastern Tibet Inferred From Seismic Anisotropy. Geophysical Research Letters, 2020, 47, e2019GL085721.	1.5	69
12	Simple equations guide high-frequency surface-wave investigation techniques. Soil Dynamics and Earthquake Engineering, 2006, 26, 395-403.	1.9	67
13	High-frequency Rayleigh-Wave method. Journal of Earth Science (Wuhan, China), 2009, 20, 563-579.	1.1	66
14	Estimation of Elastic Moduli in a Compressible Gibson Half-space by Inverting Rayleigh-wave Phase Velocity. Surveys in Geophysics, 2006, 27, 1-17.	2.1	65
15	<i>P</i> wave anisotropic tomography of the Alps. Journal of Geophysical Research: Solid Earth, 2017, 122, 4509-4528.	1.4	55
16	Research on the middle-of-receiver-spread assumption of the MASW method. Soil Dynamics and Earthquake Engineering, 2009, 29, 71-79.	1.9	49
17	Crustal radial anisotropy beneath the Dabie orogenic belt from ambient noise tomography. Geophysical Journal International, 2013, 195, 1149-1164.	1.0	49
18	Love-wave waveform inversion in time domain for shallow shear-wave velocity. Geophysics, 2016, 81, R1-R14.	1.4	49

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19	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
20	Reason and Condition for Mode Kissing in MASW Method. <i>Pure and Applied Geophysics</i> , 2016, 173, 1627-1638.	0.8	46
21	Tomography of the source zone of the great 2011 Tohoku earthquake. <i>Nature Communications</i> , 2020, 11, 1163.	5.8	38
22	Magnetotelluric imaging of a fossil paleozoic intraoceanic subduction zone in western Junggar, NW China. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 4103-4117.	1.4	37
23	Delineating Shallow S-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
24	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
25	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
26	Crustal structure of Hubei Province of China from teleseismic receiver functions: Evidence for lower crust delamination. <i>Tectonophysics</i> , 2014, 636, 286-292.	0.9	33
27	Detailed Moho geometry beneath southeastern China and its implications on thinning of continental crust. <i>Journal of Asian Earth Sciences</i> , 2015, 112, 42-48.	1.0	32
28	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
29	A multiaxial perfectly matched layer (M-PML) for the long-time simulation of elastic wave propagation in the second-order equations. <i>Journal of Applied Geophysics</i> , 2014, 101, 124-135.	0.9	30
30	Inversion stability analysis of multimode Rayleigh-wave dispersion curves using low-velocity layer models. <i>Near Surface Geophysics</i> , 2008, 6, 157-165.	0.6	28
31	Dipping-interface Mapping Using Mode-separated Rayleigh Waves. <i>Pure and Applied Geophysics</i> , 2009, 166, 353-374.	0.8	28
32	How did the Dabie Orogen collapse? Insights from 3D magnetotelluric imaging of profile data. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 5169-5185.	1.4	28
33	Seismological Evidence for a Remnant Oceanic Slab in the Western Junggar, Northwest China. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 4157-4170.	1.4	26
34	Seismic and Geologic Evidence of Water-Induced Earthquakes in the Three Gorges Reservoir Region of China. <i>Geophysical Research Letters</i> , 2018, 45, 5929-5936.	1.5	26
35	Numerical investigation of Rayleigh-wave propagation on topography surface. <i>Journal of Applied Geophysics</i> , 2012, 86, 88-97.	0.9	25
36	Magnetotelluric imaging of a fossil oceanic plate in northwestern Xinjiang, China. <i>Geology</i> , 2020, 48, 385-389.	2.0	24

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37	Effect of near-surface topography on high-frequency Rayleigh-wave propagation. <i>Journal of Applied Geophysics</i> , 2015, 116, 93-103.	0.9	23
38	Electrically Anisotropic Crust From Three-Dimensional Magnetotelluric Modeling in the Western Junggar, NW China. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 9474-9494.	1.4	23
39	Rayleigh-wave dispersive energy imaging and mode separating by high-resolution linear Radon transform. <i>The Leading Edge</i> , 2008, 27, 1536-1542.	0.4	22
40	Analysis of dispersion and attenuation of surface waves in poroelastic media in the exploration-seismic frequency band. <i>Geophysical Journal International</i> , 2011, 187, 871-888.	1.0	22
41	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
42	Geochemistry and geochronology of the $^{40}\text{Ar}/^{39}\text{Ar}$ Mg gabbroic dykes from the Quanji Massif, southeast Tarim Block, NW China: Implications for the Rodinia supercontinent assembly. <i>Journal of Asian Earth Sciences</i> , 2018, 157, 3-21.	1.0	22
43	Sensitivities of phase-velocity dispersion curves of surface waves due to high-velocity-layer and low-velocity-layer models. <i>Journal of Applied Geophysics</i> , 2016, 135, 367-374.	0.9	21
44	Arc-arc collision caused the 2018 Eastern Iwate earthquake (M 6.7) in Hokkaido, Japan. <i>Scientific Reports</i> , 2019, 9, 13914.	1.6	21
45	On the reliability and limitations of the SPAC method with a directional wavefield. <i>Journal of Applied Geophysics</i> , 2016, 126, 172-182.	0.9	20
46	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
47	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
48	Numerical Investigation of 3D multichannel analysis of surface wave method. <i>Journal of Applied Geophysics</i> , 2015, 119, 156-169.	0.9	18
49	The Deep Lithospheric Structure of the Junggar Terrane, NW China: Implications for Its Origin and Tectonic Evolution. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 11615-11638.	1.4	18
50	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
51	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
52	Age of the Subducting Philippine Sea Slab and Mechanism of Low-Frequency Earthquakes. <i>Geophysical Research Letters</i> , 2018, 45, 2303-2310.	1.5	16
53	Distinct Orogenic Processes in the South and North-Central Tien Shan From Receiver Functions. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086941.	1.5	16
54	3D shallow structures in the Baogutu area, Karamay, determined by eikonal tomography of short-period ambient noise surface waves. <i>Journal of Applied Geophysics</i> , 2016, 129, 101-110.	0.9	15

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55	Mantle Transition Zone Structure Beneath Southeastern China and its Implications for Stagnant Slab and Water Transportation in the Mantle. <i>Pure and Applied Geophysics</i> , 2014, 171, 2129-2136.	0.8	14
56	Nature and evolution of the lithospheric mantle beneath the eastern Central Asian Orogenic Belt: Constraints from peridotite xenoliths in the central part of the Great Xing'an Range, NE China. <i>Lithos</i> , 2015, 238, 52-63.	0.6	14
57	Unraveling overtone interferences in Love-wave phase velocity measurements by radon transform. <i>Geophysical Journal International</i> , 2015, 203, 327-333.	1.0	14
58	Efficiency of perfectly matched layers for seismic wave modeling in second-order viscoelastic equations. <i>Geophysical Journal International</i> , 2016, 207, 1367-1386.	1.0	14
59	Electrical structures in the northwest margin of the Junggar basin: Implications for its late Paleozoic geodynamics. <i>Tectonophysics</i> , 2017, 717, 473-483.	0.9	14
60	Two-dimensional inversion of CSAMT data and three-dimensional geological mapping for groundwater exploration in Tongkeng Area, Hunan Province, China. <i>Journal of Applied Geophysics</i> , 2020, 183, 104204.	0.9	14
61	Feasibility of determining Q of near-surface materials from Love waves. <i>Journal of Applied Geophysics</i> , 2013, 95, 47-52.	0.9	13
62	TEM investigations of South Atlantic Ridge 13.2°S hydrothermal area. <i>Acta Oceanologica Sinica</i> , 2013, 32, 68-74.	0.4	11
63	Surface-wave observations after integrating active and passive source data. <i>The Leading Edge</i> , 2013, 32, 634-637.	0.4	11
64	Precambrian tectonic attribution and evolution of the Songliao terrane revealed by zircon xenocrysts from Cenozoic alkali basalts, Xilinhot region, NE China. <i>Precambrian Research</i> , 2014, 251, 33-48.	1.2	11
65	3D magnetotelluric imaging of the middle-upper crustal conduit system beneath the Lei-Hu-Ling volcanic area of northern Hainan Island, China. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 371, 220-228.	0.8	11
66	Multichannel analysis of Love waves in a 3D seismic acquisition system. <i>Geophysics</i> , 2016, 81, EN67-EN74.	1.4	10
67	Seismic evidence for multiple-stage exhumation of high/ultrahigh pressure metamorphic rocks in the eastern Dabie orogenic belt. <i>Geophysical Journal International</i> , 2018, 214, 1379-1390.	1.0	10
68	P- and S-velocity structure beneath the Three Gorges region (central China) from local earthquake tomography. <i>Geophysical Journal International</i> , 2013, 193, 1035-1049.	1.0	9
69	Three-dimensional audio-frequency magnetotelluric imaging of Akebasitao granitic intrusions in Western Junggar, NW China. <i>Journal of Applied Geophysics</i> , 2016, 135, 288-296.	0.9	9
70	Three-dimensional audio-frequency magnetotelluric imaging of Zhuxi copper-tungsten polymetallic deposits, South China. <i>Journal of Applied Geophysics</i> , 2020, 172, 103910.	0.9	9
71	A Wavelet-Analysis-Based New Approach for Interference Elimination in Geochemical Hydrocarbon Exploration. <i>Mathematical Geosciences</i> , 2003, 35, 939-952.	0.9	8
72	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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73	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
74	Rotation-induced magnetic field in a coil magnetometer generated by seismic waves. <i>Geophysical Journal International</i> , 2018, 212, 743-759.	1.0	8
75	The deep thermochemical structure of the Dabie orogenic belt from multi-observable probabilistic inversion. <i>Tectonophysics</i> , 2020, 787, 228478.	0.9	8
76	On dispersive propagation of surface waves in patchy saturated porous media. <i>Wave Motion</i> , 2014, 51, 1225-1236.	1.0	7
77	Finite-difference modeling of high-frequency rayleigh waves. , 2005, , .		6
78	Rayleigh-wave diffractions due to a void in the layered half space. , 2006, , .		6
79	Heat shielding effects in the Earth's crust. <i>Journal of Earth Science (Wuhan, China)</i> , 2017, 28, 161-167.	1.1	5
80	Seismic anisotropy in the central Tien Shan unveils rheology-controlled deformation during intracontinental orogenesis. <i>Geology</i> , 0, , .	2.0	5
81	Bridging the connection between effective viscosity and electrical conductivity through water content in the upper mantle. <i>Scientific Reports</i> , 2018, 8, 1771.	1.6	4
82	Lithospheric Conductors Shed Light on the Non-uniform Destruction of North China Craton. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	4
83	Phanerozoic Evolution of Lithospheric Structures of the North China Craton. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	4
84	Seismic Evidence for Stepwise Lithospheric Delamination Beneath the Tibetan Plateau. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	4
85	Application of high-resolution linear Radon transform for Rayleigh-wave dispersive energy imaging and mode separating. , 2008, , .		3
86	Sensitivity study of three-dimensional marine controlled-source electromagnetic method. <i>Journal of Applied Geophysics</i> , 2017, 146, 46-53.	0.9	3
87	Upper mantle tomography of the Western Junggar: Implications for its geodynamic evolution. <i>Physics of the Earth and Planetary Interiors</i> , 2020, 299, 106405.	0.7	3
88	Magnetotelluric investigation of the Precambrian crust and intraplate Cenozoic volcanism in the Gour Oumelalen area, Central Hoggar, South Algeria. <i>Geophysical Journal International</i> , 2020, 223, 1973-1986.	1.0	3
89	Łvy Gradient Descent: Augmented Random Search for Geophysical Inverse Problems. <i>Surveys in Geophysics</i> , 2021, 42, 899-921.	2.1	3
90	The origins and geodynamic implications of mid-lithospheric discontinuities. <i>Chinese Science Bulletin</i> , 2019, 64, 2305-2315.	0.4	3

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91	FEASIBILITY OF DETECTING VOIDS WITH RAYLEIGH-WAVE DIFFRACTION. , 2006, , .		3
92	Preliminary Understanding of Near-Field Effect of CSAMT in Electric Azimuthally Anisotropic Half-Space. Journal of Environmental and Engineering Geophysics, 2006, 11, 67-72.	1.0	2
93	Active source tomography in northwestern Xinjiang, China: Implication for mineral distribution. Journal of Earth Science (Wuhan, China), 2011, 22, 214-225.	1.1	2
94	Multi-station superposition for magnetotelluric signal. Studia Geophysica Et Geodaetica, 2013, 57, 276-291.	0.3	2
95	Seismic wave modeling in viscoelastic VTI media using spectral element method. Earthquake Science, 2014, 27, 553-565.	0.4	2
96	Viscoelastic representation of surface waves in patchy saturated poroelastic media. Earthquake Science, 2014, 27, 421-431.	0.4	2
97	Building a 3D Visualization System for the Geological Survey. , 2015, , .		2
98	On magnetic disturbances induced by rotation of coil-type magnetometer driven by seismic waves. Geophysical Journal International, 2021, 226, 1948-1974.	1.0	2
99	Deciphering Fine Electrical Conductivity Structures in the Crust From MT Data Using the Equivalent Conductivity Formula. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022519.	1.4	2
100	Metal preconcentration for gold mineralization in arcs: Geophysical observations from Western Junggar, NW China. Ore Geology Reviews, 2021, 139, 104562.	1.1	2
101	Crustal structures beneath the Northern Jiangsu Basin and its surrounding areas: implications for geothermal prospecting. Journal of Geophysics and Engineering, 2022, 19, 316-325.	0.7	2
102	Imaging dispersive energy by slant stacking. , 2005, , .		1
103	Rayleigh-Wave Dispersive Energy Imaging by High-Resolution Linear Radon Transform. , 2008, , .		1
104	Geodynamic Implications of a Giant Conductor Imaged in the Western Junggar and Chinese Northwest Tianshan. Acta Geologica Sinica, 2019, 93, 136-136.	0.8	1
105	Local separation of potential field anomalies using equivalent sources: application for the 3-D structure of mantle uplift beneath Von K�rm�n crater, the Moon. Geophysical Journal International, 2021, 227, 1612-1623.	1.0	1
106	Data Resolution Matrix and Model Resolution Matrix of Rayleigh-Wave Inversion Using a Damped Least-Square Method. , 2008, , .		1
107	High-order correlative weighted stacking for seismic data in wavelet domain. , 2004, , .		1
108	Automatically Construct the Surface Visualization Model with DEM and the Geological Survey Data. Communications in Computer and Information Science, 2013, , 594-602.	0.4	1

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109	The 2014 Zigu Earthquake Sequence near the Three Gorges Dam in China. <i>Seismological Research Letters</i> , 2022, 93, 2038-2047.	0.8	1
110	Estimation of pseudo-2D shear-velocity section by inversion of high frequency surface waves. , 2006, , .		0
111	Research on Dispersion Curves of MASW. , 2007, , .		0
112	A trade-off between model resolution and variance with selected Rayleigh-wave data. , 2008, , .		0
113	Revisiting SH-Wave Data Using Love-Wave Analysis. , 2010, , .		0
114	Near-surface shear-wave velocities and quality factors derived from high-frequency surface waves. , 2013, , .		0
115	Numerical Investigation of Rayleigh-wave Propagation on 3D Topography Surface. , 2013, , .		0
116	A TEM device for polymetallic sulfides on mid-ocean-ridge seafloor. , 2015, , .		0
117	A Methodology for Automatically 3D Geological Modeling Based on Geophysical Data Grids. , 2015, , .		0
118	Numerical investigation of 3D MASW technique. , 2015, , .		0
119	4. Diffractions Observed on Seismic Data. , 2016, , 499-653.		0
120	Geochemistry and Geochronology of the High-Mg Gabbro Dykes from Quanji Massif: Implications for the Amalgamation of Tarim Block in NW China and Assembly of the Rodinia Supercontinent. <i>Acta Geologica Sinica</i> , 2016, 90, 104-105.	0.8	0
121	Three-dimensional audio-frequency magnetotelluric imaging of Zhuxi copper-tungsten polymetallic deposits, South China. , 2019, , .		0
122	Three-dimensional electrical structure of the Taqian-Zhuxi copper-tungsten polymetallic deposits, South China. , 2021, , .		0
123	Data Resolution Matrix of High-Frequency Rayleigh-Wave Phase Velocities. , 2007, , .		0
124	A Trade-Off Solution of Regularized Geophysical Inversion Using Model Resolution and Covariance Matrices. , 2009, , .		0
125	VTI equivalent for laminated layers: Parametric study using one-dimensional CSAMT responses. , 2011, , .		0
126	Feasibility of determining Q of near-surface materials from Love waves. , 2013, , .		0

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127	Deep electrical resistivity structure of Tongbai-Dabie profile from 3D magnetotelluric inversion. , 2019, , .		0