Naihao Liu

List of Publications by Year
in descending order

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70 papers	1,383 citations	361413 20 h-index	377865 34 g-index
70 all docs	70 docs citations	70 times ranked	574 citing authors

#	Article	IF	Citations
1	Seismic Local Instantaneous Frequency Extraction for Describing Superposed Sands. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	1
2	Ground-Roll Separation and Attenuation Using Curvelet-Based Multichannel Variational Mode Decomposition. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	21
3	Elastic Properties Estimation From Prestack Seismic Data Using GGCNNs and Application on Tight Sandstone Reservoir Characterization. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-21.	6.3	10
4	Denoising Seismic Signal via Resampling Local Applicability Functions. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	10
5	Microseismic First-Arrival Picking Using Fine-Tuning Feature Pyramid Networks. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	7
6	Deep Learning Prior Model for Unsupervised Seismic Data Random Noise Attenuation. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	27
7	Improved seismic well tie by integrating variable-size window resampling with well-tie net. Journal of Petroleum Science and Engineering, 2022, 208, 109368.	4.2	11
8	Quantum-Enhanced Deep Learning-Based Lithology Interpretation From Well Logs. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	24
9	Distilling Knowledge From an Ensemble of Convolutional Neural Networks for Seismic Fault Detection. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	17
10	An Improved TV-Type Variational Regularization Method for Seismic Impedance Inversion. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	2
11	Data-Driven Time-Frequency Method and Its Application in Detection of Free Gas Beneath a Gas Hydrate Deposit. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	11
12	Seismic Random Noise Separation and Attenuation Based on MVMD and MSSA. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	16
13	Seismic Attenuation Estimation Using an Enhanced Log Spectral Ratio Method. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	9
14	Multiscale Coherence Attribute and Its Application on Seismic Discontinuity Description. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	6
15	Multi-Synchrosqueezing Wavelet Transform for Timeâ€“Frequency Localization of Reservoir Characterization in Seismic Data. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	8
16	Automatic Fault Delineation in 3-D Seismic Images With Deep Learning: Data Augmentation or Ensemble Learning?. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	25
17	Seismic Data Reconstruction via Wavelet-Based Residual Deep Learning. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-13.	6.3	42
18	Self-adaptive denoising net: Self-supervised learning for seismic migration artifacts and random noise attenuation. Journal of Petroleum Science and Engineering, 2022, 214, 110431.	4.2	31

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19	Variable seismic waveforms representation: Weak-supervised learning based seismic horizon picking. Journal of Petroleum Science and Engineering, 2022, 214, 110412.	4.2	12
20	Exploring factors affecting the performance of deep learning in seismic fault attribute computation. Interpretation, 2022, 10, T619-T636.	1.1	11
21	Seismic Volumetric Dip Estimation via Multichannel Deep Learning Model. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	9
22	Construction of Optimal Basic Wavelet via AIDNN and Its Application in Seismic Data Analysis. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1144-1148.	3.1	9
23	Large-Dimensional Seismic Inversion Using Global Optimization With Autoencoder-Based Model Dimensionality Reduction. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1718-1732.	6.3	21
24	Automatic Lithology Identification by Applying LSTM to Logging Data: A Case Study in X Tight Rock Reservoirs. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 1361-1365.	3.1	37
25	Structure-Oriented DTGV Regularization for Random Noise Attenuation in Seismic Data. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 1757-1771.	6.3	15
26	Landslide Susceptibility Modeling Using Bagging-Based Positive-Unlabeled Learning. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 766-770.	3.1	24
27	Revisit seismic attenuation attributes: Influences of the spectral balancing operation on seismic attenuation analysis. Interpretation, 2021, 9, T767-T779.	1.1	10
28	Seismic random noise attenuation using MVMD and MSSA. , 2021, , .		0
29	Sparse inversion-based seismic random noise attenuation via self-paced learning. Artificial Intelligence in Geosciences, 2021, 2, 223-233.	1.9	0
30	Synchroextracting transform: The theory analysis and comparisons with the synchrosqueezing transform. Signal Processing, 2020, 166, 107243.	3.7	65
31	Separation of Blended Seismic Data Using the Synchrosqueezed Curvelet Transform. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 711-715.	3.1	10
32	Seismic Timeâ€“Frequency Analysis via Adaptive Mode Separation-Based Wavelet Transform. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 696-700.	3.1	25
33	Second-Order Synchrosqueezing Wave Packet Transform and Its Application for Characterizing Seismic Geological Structures. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 760-764.	3.1	12
34	Seismic Reservoir Delineation via Hankel Transform Based Enhanced Empirical Wavelet Transform. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1411-1414.	3.1	9
35	Seismic Traffic Noise Attenuation Using l_{p} -Norm Robust PCA. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1998-2001.	3.1	12
36	Time-Synchroextracting General Chirplet Transform for Seismic Timeâ€“Frequency Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2020, 58, 8626-8636.	6.3	30

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37	Frequency-chirprate reassignment. , 2020, 104, 102783.		25
38	Seismic signal de-noising using timeâ€“frequency peak filtering based on empirical wavelet transform. Acta Geophysica, 2020, 68, 425-434.	2.0	18
39	Coherence algorithm with a highâ€resolution timeâ€“time transform and feature matrix for seismic data. Geophysical Prospecting, 2020, 68, 1113-1125.	1.9	4
40	Seismic Impedance Inversion Using Fully Convolutional Residual Network and Transfer Learning. IEEE Geoscience and Remote Sensing Letters, 2020, 17, 2140-2144.	3.1	96
41	Common-azimuth seismic data fault analysis using residual UNet. Interpretation, 2020, 8, SM25-SM37.	1.1	43
42	Seismic geologic structure characterization using a high-order spectrum-coherence attribute. Interpretation, 2020, 8, T391-T401.	1.1	11
43	Correction to â€œSeismic Time-Frequency Analysis via Adaptive Mode Separation-Based Wavelet Transformâ€• IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1102-1102.	3.1	1
44	Correction to â€œThe Improved Empirical Wavelet Transform and Applications to Seismic Reflection Dataâ€• IEEE Geoscience and Remote Sensing Letters, 2020, 17, 1103-1103.	3.1	0
45	Semi-Supervised Deep Learning Seismic Impedance Inversion Using Generative Adversarial Networks. , 2020, , .		8
46	White noise attenuation of seismic trace by integrating variational mode decomposition with convolutional neural network. Geophysics, 2019, 84, V307-V317.	2.6	40
47	Random noise suppression of seismic data by timeâ€“frequency peak filtering with variational mode decomposition. Exploration Geophysics, 2019, 50, 634-644.	1.1	15
48	Seismic anelastic attenuation estimation using prestack seismic gathers. Geophysics, 2019, 84, M37-M49.	2.6	14
49	Accurate seismic dip and azimuth estimation using semblance dip guided structure tensor analysis. Geophysics, 2019, 84, O103-O112.	2.6	19
50	Semiautomatic first-arrival picking of microseismic events by using the pixel-wise convolutional image segmentation method. Geophysics, 2019, 84, V143-V155.	2.6	65
51	The approximate constant Q and linearized reflection coefficients based on the generalized fractional wave equation. Journal of the Acoustical Society of America, 2019, 145, 243-253.	1.1	4
52	Multitrace Semiblind Nonstationary Deconvolution. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1195-1199.	3.1	17
53	Self-Adaptive Generalized S-Transform and Its Application in Seismic Timeâ€“Frequency Analysis. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 7849-7859.	6.3	79
54	The Improved Empirical Wavelet Transform and Applications to Seismic Reflection Data. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 1939-1943.	3.1	20

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55	A Coherence Algorithm for 3-D Seismic Data Analysis Based on the Mutual Information. IEEE Geoscience and Remote Sensing Letters, 2019, 16, 967-971.	3.1	8
56	Fluvial channel characterization using the improved empirical wavelet transform. , 2019, , .		0
57	High-Resolution Seismic Timeâ€“Frequency Analysis Using the Synchrosqueezing Generalized S-Transform. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 374-378.	3.1	61
58	Timeâ€“Frequency Analysis of Seismic Data Using a Three Parameters S Transform. IEEE Geoscience and Remote Sensing Letters, 2018, 15, 142-146.	3.1	78
59	Seismic instantaneous frequency extraction based on the SST-MAW. Journal of Geophysics and Engineering, 2018, 15, 995-1007.	1.4	11
60	Seismic attenuation estimation using the modified log spectral ratio method. Journal of Applied Geophysics, 2018, 159, 386-394.	2.1	16
61	Channel detection using the self-adaptive generalized S-transform. , 2018, , .		1
62	Seismic time-frequency analysis using the vertical second-order synchrosqueezing transform. , 2018, , .		0
63	A generalized S transform and applications to seismic time-frequency analysis. , 2018, , .		0
64	Seismic Timeâ€“Frequency Analysis via STFT-Based Concentration of Frequency and Time. IEEE Geoscience and Remote Sensing Letters, 2017, 14, 127-131.	3.1	75
65	High-resolution characterization of geologic structures using the synchrosqueezing transform. Interpretation, 2017, 5, T75-T85.	1.1	52
66	Seismic wavelet phase estimation by semiautomatic seismic-well tying. , 2017, , .		2
67	Q estimation from time-migrated gathers based on S transform. , 2017, , .		2
68	Q estimation with improved frequency-shift method based on generalized seismic wavelet. , 2016, , .		6
69	Time-frequency analysis of seismic data using synchrosqueezing three parameter wavelet transform. , 2015, , .		1
70	The extraction of instantaneous frequency from seismic data via synchrosqueezing three parameter wavelet transform. , 2015, , .		2