Tao Zhao

List of Publications by Year
in descending order

38 papers	899 citations	759233 12 h-index	1125743 13 g-index
38 all docs	38 docs citations	38 times ranked	491 citing authors

#	Article	IF	Citations
1	Deep learning for end-to-end subsurface modeling and interpretation: An example from the Groningen gas field. The Leading Edge, 2022, 41, 259-267.	0.7	2
2	Low-Frequency Data Learning for Solving Highly Nonlinear Inverse Scattering Problems. , 2022, , .		0
3	Low-Frequency Data Prediction With Iterative Learning for Highly Nonlinear Inverse Scattering Problems. IEEE Transactions on Microwave Theory and Techniques, 2021, 69, 4366-4376.	4.6	27
4	Study on Low-Frequency Data Learning for Inverse Scattering Problems with High Nonlinearity. , 2021, , .		0
5	Multispectral coherence: Which decomposition should we use?. Interpretation, 2020, 8, T115-T129.	1.1	18
6	Enrich the interpretation of seismic image segmentation by estimating epistemic uncertainty. , 2020, , .		16
7	3D convolutional neural networks for efficient fault detection and orientation estimation. , 2019, , .		10
8	Seismic attribute selection for unsupervised seismic facies analysis using user-guided data-adaptive weights. Geophysics, 2018, 83, O31-O44.	2.6	41
9	Seismic facies classification using different deep convolutional neural networks. , 2018, , .		93
10	A fault-detection workflow using deep learning and image processing. , 2018, , .		64
11	Highlighting discontinuities with variational-mode decomposition-based coherence. , 2018, , .		9
12	Constraining self-organizing map facies analysis with stratigraphy: An approach to increase the credibility in automatic seismic facies classification. Interpretation, 2017, 5, T163-T171.	1.1	51
13	Facies analysis by integrating 3D seismic attributes and well logs for prospect identification and evaluation â€" A case study from Northwest China. Interpretation, 2017, 5, SE61-SE74.	1.1	15
14	Optimal Lq norm regularization for sparse reflectivity inversion. , 2017, , .		5
15	Automated input attribute weighting for unsupervised seismic facies analysis. , 2017, , .		2
16	Different training sample selection strategies in unsupervised seismic facies analysis. , 2017, , .		1
17	VMD Based Sedimentary Cycle Division for Unconventional Facies Analysis. , 2016, , .		10
18	Estimation of TOC and Brittleness Volumes and Correlation with Reservoir Production. , 2016, , .		2

#	Article	IF	Citations
19	Advanced self-organizing map facies analysis with stratigraphic constraint. , 2016, , .		8
20	Seismic attenuation attributes with applications on conventional and unconventional reservoirs. Interpretation, 2016, 4, SB63-SB77.	1.1	33
21	Characterizing a turbidite system in Canterbury Basin, New Zealand, using seismic attributes and distance-preserving self-organizing maps. Interpretation, 2016, 4, SB79-SB89.	1.1	64
22	Semisupervised multiattribute seismic facies analysis. Interpretation, 2016, 4, SB91-SB106.	1.1	79
23	Estimation of total organic carbon and brittleness volume. Interpretation, 2016, 4, T373-T385.	1.1	45
24	Lateral consistency preserved variational mode decomposition (VMD). , 2016, , .		6
25	Numerical modeling of wave propagation with an irregular free surface and graphic processing unit (gpu) implementation. , 2015, , .		2
26	Fracture Characterization Based on Attenuation Estimation From Seismic Reflection Data Using Well-Log-Based Localized Spectral Correction. , 2015, , .		2
27	Well performance predictions from geologic, petrophysical and completions-related parameters using generative topographic mapping: A field case study. , 2015, , .		1
28	Fracture Characterization Based on Attenuation Estimation from Seismic Reflection Data Using Well-log-based Localized Spectral Correction. , 2015, , .		2
29	Attribute assisted seismic facies classification on a turbidite system in Canterbury Basin, offshore New Zealand. , 2015, , .		0
30	TOC estimation in the Barnett Shale from triple combo logs using support vector machine. , 2015, , .		13
31	Supervised and unsupervised learning: how machines can assist quantitative seismic interpretation. , 2015, , .		13
32	Brittleness evaluation of resource plays by integrating petrophysical and seismic data analysis. Interpretation, 2015, 3, T81-T92.	1.1	39
33	A comparison of classification techniques for seismic facies recognition. Interpretation, 2015, 3, SAE29-SAE58.	1.1	188
34	Correcting for VVAz prior to AVAz analysis. , 2015, , .		3
35	Horizon-based semiautomated nonhyperbolic velocity analysis. Geophysics, 2014, 79, U15-U23.	2.6	15
36	Lithofacies classification in Barnett Shale using proximal support vector machines. , 2014, , .		15

#	ARTICLE	IF	CITATIONS
37	Strategies to preserve the data fidelity at far offset. , 2014, , .		2
38	Performance evaluation of complex neural networks in reservoir characterization: Applied to Boonsville 3-D seismic data. , 2013, , .		3