Zhaoyun Zong

List of Publications by Year
in descending order

73 papers	1,016 citations	623734 14 h-index	454955 30 g-index
73 all docs	73 docs citations	73 times ranked	275 citing authors

#	Article	IF	Citations
1	Generalized Orthogonal Matching Pursuit With Singular Value Decomposition. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	5
2	Estimation of porosity, fluid bulk modulus, and stiff-pore volume fraction using a multitrace Bayesian amplitude-variation-with-offset petrophysics inversion in multiporosity reservoirs. Geophysics, 2022, 87, M25-M41.	2.6	13
3	Density stability estimation method from pre-stack seismic data. Journal of Petroleum Science and Engineering, 2022, 208, 109373.	4.2	10
4	Semi-supervised learning seismic inversion based on Spatio-temporal sequence residual modeling neural network. Journal of Petroleum Science and Engineering, 2022, 208, 109549.	4.2	9
5	Seismic inversion using complex spherical-wave reflection coefficient at different offsets and frequencies. Geophysics, 2022, 87, R183-R192.	2.6	4
6	Complex spherical-wave elastic inversion using amplitude and phase reflection information. Petroleum Science, 2022, 19, 1065-1084.	4.9	2
7	Improved W-Transform Incorporating Fast Matching Pursuit Decomposition. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	3
8	Introduction to special section: Seismic amplitude interpretation for conventional and unconventional resources. Interpretation, 2022, 10, SAi-SAi.	1.1	0
9	Amplitude-variation-with-offset inversion using P- to S-wave velocity ratio and P-wave velocity. Geophysics, 2022, 87, N63-N74.	2.6	13
10	Acoustothermoelasticity for Joint Effects of Stress and Thermal Fields on Wave Dispersion and Attenuation. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	9
11	Fracture parameters estimation from azimuthal seismic data in orthorhombic medium. Journal of Natural Gas Science and Engineering, 2022, 100, 104470.	4.4	8
12	Hierarchical Bayesian Probabilistic Seismic AVO Inversion Using Gibbs Sampling With IA2RMS Algorithm. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	0
13	Two-stage semi-supervised learning inversion for reservoir physical parameters. Journal of Petroleum Science and Engineering, 2022, , 110794.	4.2	1
14	Synchrosqueezing Matching Pursuit Time–Frequency Analysis. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 411-415.	3.1	8
15	Direct estimation of discrete fluid facies and fluid indicators via a Bayesian Seismic Probabilistic Inversion and a novel exact PP-wave reflection coefficient. Journal of Petroleum Science and Engineering, 2021, 196, 107412.	4.2	11
16	Model parameterization and amplitude variation with angle and azimuthal inversion in orthotropic media. Geophysics, 2021, 86, R1-R14.	2.6	25
17	Rock Physical Model and AVO Patterns for the Mud-Rich Source Rock. Frontiers in Earth Science, 2021, 9, .	1.8	7
18	Seismic reflectivity and transmissivity parametrization with the effect of normal *in situ* stress. Geophysical Journal International, 2021, 226, 1599-1614.	2.4	17

#	ARTICLE	IF	CITATIONS
19	High-resolution fixed-point seismic inversion. Interpretation, 2021, 9, B25-B37.	1.1	3
20	Bayesian Hamiltonian Monte Carlo method for the estimation of pyrolysis parameter S1. Geophysics, 2021, 86, M197-M209.	2.6	3
21	An Exact Expression for the Effective Bulk Modulus for Acoustic Wave Propagation in Cylindrical Patchy-Saturation Rocks. Lithosphere, 2021, 2021, .	1.4	2
22	Accurate formulae for P-wave reflectivity and transmissivity for a non-welded contact interface with the effect of *in situ* vertical stress. Geophysical Journal International, 2021, 229, 311-327.	2.4	13
23	Analysis of attenuation and dispersion of propagating wave due to the coexistence of three fluid phases in the pore volume. Geophysical Prospecting, 2020, 68, 657-677.	1.9	5
24	Closed-Form Expressions of Plane-Wave Reflection and Transmission Coefficients at a Planar Interface of Porous Media with a Normal Incident Fast P-Wave. Pure and Applied Geophysics, 2020, 177, 2605-2617.	1.9	5
25	Pore pressure prediction in orthotropic medium based on rock physics modeling of shale gas. Journal of Natural Gas Science and Engineering, 2020, 74, 103091.	4.4	12
26	Fluid discrimination with novel anisotropic fluid factor based on the Gassmann theory. , 2020, , .		0
27	Frequency-dependent spherical-wave nonlinear AVO inversion in elastic media. Geophysical Journal International, 2020, 223, 765-776.	2.4	12
28	Influencing factor analysis of the elastic properties of shale with rock-physical model including pressure effects. Interpretation, 2020, 8, T515-T524.	1.1	4
29	Facies-constrained prestack seismic probabilistic inversion driven by rock physics. Science China Earth Sciences, 2020, 63, 822-840.	5.2	14
30	Azimuthally variation of elastic impedances for fracture estimation. Journal of Petroleum Science and Engineering, 2019, 181, 106112.	4.2	7
31	Multiâ€trace basisâ€pursuit seismic inversion for resolution enhancement. Geophysical Prospecting, 2019, 67, 519-531.	1.9	6
32	Nonlinear elastic impedance inversion in the complex frequency domain based on an exact reflection coefficient. Journal of Petroleum Science and Engineering, 2019, 178, 97-105.	4.2	16
33	An improved stochastic inversion for joint estimation of seismic impedance and lithofacies. Journal of Geophysics and Engineering, 2019, 16, 62-76.	1.4	12
34	Nonlinear Elastic Impedance Inversion in Laplaceâ€"Fourier Domain. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 4655-4663.	4.9	5
35	Analysis of near-field seismic wave scattering patterns. , 2019, , .		0
36	Broadband elastic impedance variation with angle cascade inversion for fluid discrimination. , 2019, , .		0

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37	Pore pressure prediction from bulk modulus in shale based on rock physics modeling. , 2019, , .		3
38	Amplitude variation with angle inversion for fluid discrimination with the consideration of squirt flow. , 2019, , .		2
39	Model parameterization and amplitude variation with angle and azimuth inversion for orthotropic parameters. , 2019, , .		1
40	Rock moduli estimation of inhomogeneous two-phase media with finite difference modeling algorithm. Journal of Geophysics and Engineering, 2018, 15, 1517-1527.	1.4	3
41	Broadband Seismic Inversion for Low-Frequency Component of the Model Parameter. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 5177-5184.	6.3	38
42	Young's modulus variation with azimuth for fracture-orientation estimation. Interpretation, 2018, 6, T809-T818.	1.1	10
43	Direct estimation of lithofacies and geofluid parameters incorporating Gaussian mixture priori and prestack EVA inversion with bounding constraint. , 2018, , .		0
44	Research on the equivalence between digital core and rock physics models. Journal of Geophysics and Engineering, 2017, 14, 666-674.	1.4	12
45	Nonlinear amplitude-variation-with-offset inversion for Lamé parameters using a direct inversion method. Interpretation, 2017, 5, SL57-SL67.	1.1	4
46	Broadband seismic amplitude variation with offset inversion. Geophysics, 2017, 82, M43-M53.	2.6	32
47	Broadband seismic AVO inversion. , 2017, , .		0
48	Model Parameterization and P-wave AVA Direct Inversion for Young's Impedance. Pure and Applied Geophysics, 2017, 174, 1965-1981.	1.9	14
49	Young's modulus variation with azimuth for fracture orientation estimation. , 2017, , .		0
50	Frequency dependent elastic impedance inversion for interstratified dispersive elastic parameters. Journal of Applied Geophysics, 2016, 131, 84-93.	2.1	13
51	Resolution enhancement of robust Bayesian pre-stack inversion in the frequency domain. Journal of Geophysics and Engineering, 2016, 13, 646-656.	1.4	20
52	Seismic-sparse inversion in mixed domain utilizing fast matching pursuit algorithm. , 2016, , .		9
53	Seismic inversion in complex frequency domain for the low component of model parameter. , 2016, , .		0
54	Reliability enhancement of mix-domain seismic inversion with bounding constraints. , 2016, , .		1

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55	Bayesian AVA inversion in combined time and frequency domain. , 2015, , .		0
56	Resolution enhancement of seismic inversion incorporating the frequency information. , 2015, , .		4
57	Complex seismic amplitude inversion for P-wave and S-wave quality factors. Geophysical Journal International, 2015, 202, 564-577.	2.4	26
58	Geofluid Discrimination Incorporating Poroelasticity and Seismic Reflection Inversion. Surveys in Geophysics, 2015, 36, 659-681.	4.6	82
59	Research on seismic fluid identification driven by rock physics. Science China Earth Sciences, 2015, 58, 159-171.	5.2	79
60	Elastic inverse scattering for fluid variation with time-lapse seismic data. Geophysics, 2015, 80, WA61-WA67.	2.6	14
61	EVAF inversion for interstratified dispersive velocities. , 2015, , .		0
62	Seismic wave scattering inversion for fluid factor of heterogeneous media. Science China Earth Sciences, 2014, 57, 542-549.	5.2	12
63	Pre-stack seismic simultaneous inversion for P-wave and S-wave quality factors. , 2014, , .		0
64	Improving seismic interpretation: a high-contrast approximation to the reflection coefficient of a plane longitudinal wave. Petroleum Science, 2013, 10, 466-476.	4.9	21
65	Elastic impedance parameterization and inversion with Young's modulus and Poisson's ratio. Geophysics, 2013, 78, N35-N42.	2.6	96
66	Multi-parameter nonlinear inversion with exact reflection coefficient equation. Journal of Applied Geophysics, 2013, 98, 21-32.	2.1	32
67	Direct inversion for a fluid factor and its application in heterogeneous reservoirs. Geophysical Prospecting, 2013, 61, 998-1005.	1.9	22
68	AVAZ inversion and stress evaluation in heterogeneous media. , 2013, , .		1
69	Model parameterization and EVA-DSVD inversion with Young's modulus and Poisson's ratio. , 2013, , .		1
70	AVO inversion and poroelasticity with P- and S-wave moduli. Geophysics, 2012, 77, N17-N24.	2.6	149
71	Elastic impedance variation with angle inversion for elastic parameters. Journal of Geophysics and Engineering, 2012, 9, 247-260.	1.4	50
72	Probabilistic Fisher discriminant analysis based on Gaussian mixture model for estimating shale oil sweet spots. Frontiers of Earth Science, 0, , 1.	2.1	0

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73	P-wave reflectivity parameterization and non-linear inversion in terms of Young's modulus and Poisson ratio. Interpretation, 0, , 1-59.	1.1	1