

Zhaoyun Zong

List of Publications by Year in descending order

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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	AVO inversion and poroelasticity with P- and S-wave moduli. <i>Geophysics</i> , 2012, 77, N17-N24.	2.6	149
2	Elastic impedance parameterization and inversion with Young's modulus and Poisson's ratio. <i>Geophysics</i> , 2013, 78, N35-N42.	2.6	96
3	Geofluid Discrimination Incorporating Poroelasticity and Seismic Reflection Inversion. <i>Surveys in Geophysics</i> , 2015, 36, 659-681.	4.6	82
4	Research on seismic fluid identification driven by rock physics. <i>Science China Earth Sciences</i> , 2015, 58, 159-171.	5.2	79
5	Elastic impedance variation with angle inversion for elastic parameters. <i>Journal of Geophysics and Engineering</i> , 2012, 9, 247-260.	1.4	50
6	Broadband Seismic Inversion for Low-Frequency Component of the Model Parameter. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 5177-5184.	6.3	38
7	Multi-parameter nonlinear inversion with exact reflection coefficient equation. <i>Journal of Applied Geophysics</i> , 2013, 98, 21-32.	2.1	32
8	Broadband seismic amplitude variation with offset inversion. <i>Geophysics</i> , 2017, 82, M43-M53.	2.6	32
9	Complex seismic amplitude inversion for P-wave and S-wave quality factors. <i>Geophysical Journal International</i> , 2015, 202, 564-577.	2.4	26
10	Model parameterization and amplitude variation with angle and azimuthal inversion in orthotropic media. <i>Geophysics</i> , 2021, 86, R1-R14.	2.6	25
11	Direct inversion for a fluid factor and its application in heterogeneous reservoirs. <i>Geophysical Prospecting</i> , 2013, 61, 998-1005.	1.9	22
12	Improving seismic interpretation: a high-contrast approximation to the reflection coefficient of a plane longitudinal wave. <i>Petroleum Science</i> , 2013, 10, 466-476.	4.9	21
13	Resolution enhancement of robust Bayesian pre-stack inversion in the frequency domain. <i>Journal of Geophysics and Engineering</i> , 2016, 13, 646-656.	1.4	20
14	Seismic reflectivity and transmissivity parametrization with the effect of normal <i>in situ</i> stress. <i>Geophysical Journal International</i> , 2021, 226, 1599-1614.	2.4	17
15	Nonlinear elastic impedance inversion in the complex frequency domain based on an exact reflection coefficient. <i>Journal of Petroleum Science and Engineering</i> , 2019, 178, 97-105.	4.2	16
16	Elastic inverse scattering for fluid variation with time-lapse seismic data. <i>Geophysics</i> , 2015, 80, WA61-WA67.	2.6	14
17	Model Parameterization and P-wave AVA Direct Inversion for Young's Impedance. <i>Pure and Applied Geophysics</i> , 2017, 174, 1965-1981.	1.9	14
18	Facies-constrained prestack seismic probabilistic inversion driven by rock physics. <i>Science China Earth Sciences</i> , 2020, 63, 822-840.	5.2	14

#	ARTICLE	IF	CITATIONS
19	Frequency dependent elastic impedance inversion for interstratified dispersive elastic parameters. Journal of Applied Geophysics, 2016, 131, 84-93.	2.1	13
20	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
21	Accurate formulae for <i>P</i> -wave reflectivity and transmissivity for a non-welded contact interface with the effect of <i>in situ</i> vertical stress. Geophysical Journal International, 2021, 229, 311-327.	2.4	13
22	Amplitude-variation-with-offset inversion using P- to S-wave velocity ratio and P-wave velocity. Geophysics, 2022, 87, N63-N74.	2.6	13
23	Seismic wave scattering inversion for fluid factor of heterogeneous media. Science China Earth Sciences, 2014, 57, 542-549.	5.2	12
24	Research on the equivalence between digital core and rock physics models. Journal of Geophysics and Engineering, 2017, 14, 666-674.	1.4	12
25	An improved stochastic inversion for joint estimation of seismic impedance and lithofacies. Journal of Geophysics and Engineering, 2019, 16, 62-76.	1.4	12
26	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
27	Frequency-dependent spherical-wave nonlinear AVO inversion in elastic media. Geophysical Journal International, 2020, 223, 765-776.	2.4	12
28	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
29	Young's modulus variation with azimuth for fracture-orientation estimation. Interpretation, 2018, 6, T809-T818.	1.1	10
30	Density stability estimation method from pre-stack seismic data. Journal of Petroleum Science and Engineering, 2022, 208, 109373.	4.2	10
31	Seismic-sparse inversion in mixed domain utilizing fast matching pursuit algorithm. , 2016, , .		9
32	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
33	Acoustoelasticty for Joint Effects of Stress and Thermal Fields on Wave Dispersion and Attenuation. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	9
34	Synchrosqueezing Matching Pursuit Time-Frequency Analysis. IEEE Geoscience and Remote Sensing Letters, 2021, 18, 411-415.	3.1	8
35	Fracture parameters estimation from azimuthal seismic data in orthorhombic medium. Journal of Natural Gas Science and Engineering, 2022, 100, 104470.	4.4	8
36	Azimuthally variation of elastic impedances for fracture estimation. Journal of Petroleum Science and Engineering, 2019, 181, 106112.	4.2	7

#	ARTICLE	IF	CITATIONS
37	Rock Physical Model and AVO Patterns for the Mud-Rich Source Rock. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	7
38	Multi-trace basis pursuit seismic inversion for resolution enhancement. <i>Geophysical Prospecting</i> , 2019, 67, 519-531.	1.9	6
39	Nonlinear Elastic Impedance Inversion in Laplace-Fourier Domain. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019, 12, 4655-4663.	4.9	5
40	Analysis of attenuation and dispersion of propagating wave due to the coexistence of three fluid phases in the pore volume. <i>Geophysical Prospecting</i> , 2020, 68, 657-677.	1.9	5
41	Closed-Form Expressions of Plane-Wave Reflection and Transmission Coefficients at a Planar Interface of Porous Media with a Normal Incident Fast P-Wave. <i>Pure and Applied Geophysics</i> , 2020, 177, 2605-2617.	1.9	5
42	Generalized Orthogonal Matching Pursuit With Singular Value Decomposition. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	3.1	5
43	Resolution enhancement of seismic inversion incorporating the frequency information. , 2015, , .		4
44	Nonlinear amplitude-variation-with-offset inversion for Lamé parameters using a direct inversion method. <i>Interpretation</i> , 2017, 5, SL57-SL67.	1.1	4
45	Influencing factor analysis of the elastic properties of shale with rock-physical model including pressure effects. <i>Interpretation</i> , 2020, 8, T515-T524.	1.1	4
46	Seismic inversion using complex spherical-wave reflection coefficient at different offsets and frequencies. <i>Geophysics</i> , 2022, 87, R183-R192.	2.6	4
47	Rock moduli estimation of inhomogeneous two-phase media with finite difference modeling algorithm. <i>Journal of Geophysics and Engineering</i> , 2018, 15, 1517-1527.	1.4	3
48	High-resolution fixed-point seismic inversion. <i>Interpretation</i> , 2021, 9, B25-B37.	1.1	3
49	Bayesian Hamiltonian Monte Carlo method for the estimation of pyrolysis parameter S1. <i>Geophysics</i> , 2021, 86, M197-M209.	2.6	3
50	Pore pressure prediction from bulk modulus in shale based on rock physics modeling. , 2019, , .		3
51	Improved W-Transform Incorporating Fast Matching Pursuit Decomposition. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022, 19, 1-5.	3.1	3
52	An Exact Expression for the Effective Bulk Modulus for Acoustic Wave Propagation in Cylindrical Patchy-Saturation Rocks. <i>Lithosphere</i> , 2021, 2021, .	1.4	2
53	Amplitude variation with angle inversion for fluid discrimination with the consideration of squirt flow. , 2019, , .		2
54	Complex spherical-wave elastic inversion using amplitude and phase reflection information. <i>Petroleum Science</i> , 2022, 19, 1065-1084.	4.9	2

#	ARTICLE	IF	CITATIONS
55	AVAZ inversion and stress evaluation in heterogeneous media. , 2013, , .		1
56	Model parameterization and EVA-DSVD inversion with Young's modulus and Poisson's ratio. , 2013, , .		1
57	Reliability enhancement of mix-domain seismic inversion with bounding constraints. , 2016, , .		1
58	Model parameterization and amplitude variation with angle and azimuth inversion for orthotropic parameters. , 2019, , .		1
59	P-wave reflectivity parameterization and non-linear inversion in terms of Young's modulus and Poisson ratio. Interpretation, 0, , 1-59.	1.1	1
60	Two-stage semi-supervised learning inversion for reservoir physical parameters. Journal of Petroleum Science and Engineering, 2022, , 110794.	4.2	1
61	Pre-stack seismic simultaneous inversion for P-wave and S-wave quality factors. , 2014, , .		0
62	Bayesian AVA inversion in combined time and frequency domain. , 2015, , .		0
63	Broadband seismic AVO inversion. , 2017, , .		0
64	Fluid discrimination with novel anisotropic fluid factor based on the Gassmann theory. , 2020, , .		0
65	EVAF inversion for interstratified dispersive velocities. , 2015, , .		0
66	Seismic inversion in complex frequency domain for the low component of model parameter. , 2016, , .		0
67	Young's modulus variation with azimuth for fracture orientation estimation. , 2017, , .		0
68	Direct estimation of lithofacies and geofluid parameters incorporating Gaussian mixture priori and prestack EVA inversion with bounding constraint. , 2018, , .		0
69	Analysis of near-field seismic wave scattering patterns. , 2019, , .		0
70	Broadband elastic impedance variation with angle cascade inversion for fluid discrimination. , 2019, , .		0
71	Probabilistic Fisher discriminant analysis based on Gaussian mixture model for estimating shale oil sweet spots. Frontiers of Earth Science, 0, , 1.	2.1	0
72	Introduction to special section: Seismic amplitude interpretation for conventional and unconventional resources. Interpretation, 2022, 10, SAI-SAI.	1.1	0

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73	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