

Tariq Alkhalifah

List of Publications by Citations

Source: <https://exaly.com/author-pdf/6875930/tariq-alkhalifah-publications-by-citations.pdf>

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

291
papers

5,107
citations

32
h-index

61
g-index

346
ext. papers

6,597
ext. citations

2.8
avg, IF

6.84
L-index

#	Paper	IF	Citations
291	Velocity analysis for transversely isotropic media. <i>Geophysics</i> , 1995 , 60, 1550-1566	3.1	549
290	An acoustic wave equation for anisotropic media. <i>Geophysics</i> , 2000 , 65, 1239-1250	3.1	328
289	Acoustic approximations for processing in transversely isotropic media. <i>Geophysics</i> , 1998 , 63, 623-631	3.1	279
288	Velocity analysis using nonhyperbolic moveout in transversely isotropic media. <i>Geophysics</i> , 1997 , 62, 1839-1854	3.1	156
287	A recipe for practical full-waveform inversion in anisotropic media: An analytical parameter resolution study. <i>Geophysics</i> , 2014 , 79, R91-R101	3.1	147
286	Scattering-angle based filtering of the waveform inversion gradients. <i>Geophysical Journal International</i> , 2014 , 200, 363-373	2.6	109
285	An acoustic wave equation for orthorhombic anisotropy. <i>Geophysics</i> , 2003 , 68, 1169-1172	3.1	101
284	Application of multi-source waveform inversion to marine streamer data using the global correlation norm. <i>Geophysical Prospecting</i> , 2012 , 60, 748-758	1.9	91
283	Source-independent time-domain waveform inversion using convolved wavefields: Application to the encoded multisource waveform inversion. <i>Geophysics</i> , 2011 , 76, R125-R134	3.1	85
282	Gaussian beam depth migration for anisotropic media. <i>Geophysics</i> , 1995 , 60, 1474-1484	3.1	85
281	Simultaneous inversion of the background velocity and the perturbation in full-waveform inversion. <i>Geophysics</i> , 2015 , 80, R317-R329	3.1	79
280	Deep learning for low-frequency extrapolation from multioffset seismic data. <i>Geophysics</i> , 2019 , 84, R989-R1007	3.1	70
279	Velocity analysis and imaging in transversely isotropic media: Methodology and a case study. <i>The Leading Edge</i> , 1996 , 15, 371-378	1	62
278	Scanning anisotropy parameters in complex media. <i>Geophysics</i> , 2011 , 76, U13-U22	3.1	59
277	Migration error in transversely isotropic media. <i>Geophysics</i> , 1994 , 59, 1405-1418	3.1	53
276	The offset-midpoint traveltime pyramid in transversely isotropic media. <i>Geophysics</i> , 2000 , 65, 1316-1325	3.1	49
275	Regularized elastic full-waveform inversion using deep learning. <i>Geophysics</i> , 2019 , 84, R741-R751	3.1	47

274	Elastic reflection-based waveform inversion with a nonlinear approach. <i>Geophysics</i> , 2017 , 82, R309-R321	3.1	47
273	Modeling of pseudoacoustic P-waves in orthorhombic media with a low-rank approximation. <i>Geophysics</i> , 2013 , 78, C33-C40	3.1	47
272	Implementing the fast marching eikonal solver: spherical versus Cartesian coordinates. <i>Geophysical Prospecting</i> , 2001 , 49, 165-178	1.9	47
271	Elastic orthorhombic anisotropic parameter inversion: An analysis of parameterization. <i>Geophysics</i> , 2016 , 81, C279-C293	3.1	46
270	Seismic data processing in vertically inhomogeneous TI media. <i>Geophysics</i> , 1997 , 62, 662-675	3.1	43
269	The natural combination of full and image-based waveform inversion. <i>Geophysical Prospecting</i> , 2016 , 64, 19-30	1.9	42
268	Unwrapped phase inversion with an exponential damping. <i>Geophysics</i> , 2015 , 80, R251-R264	3.1	41
267	Full-model wavenumber inversion: An emphasis on the appropriate wavenumber continuation. <i>Geophysics</i> , 2016 , 81, R89-R98	3.1	40
266	Traveltime computation with the linearized eikonal equation for anisotropic media. <i>Geophysical Prospecting</i> , 2002 , 50, 373-382	1.9	37
265	Multiscattering inversion for low-model wavenumbers. <i>Geophysics</i> , 2016 , 81, R417-R428	3.1	37
264	Multiparameter elastic full waveform inversion with facies-based constraints. <i>Geophysical Journal International</i> , 2018 , 213, 2112-2127	2.6	35
263	Research Note: Insights into the data dependency on anisotropy: an inversion prospective. <i>Geophysical Prospecting</i> , 2016 , 64, 505-513	1.9	35
262	Full model wavenumber inversion: Identifying sources of information for the elusive middle model wavenumbers. <i>Geophysics</i> , 2018 , 83, R597-R610	3.1	34
261	The optimized expansion based low-rank method for wavefield extrapolation. <i>Geophysics</i> , 2014 , 79, T51-T60	3.1	33
260	Frequency-domain waveform inversion using the phase derivative. <i>Geophysical Journal International</i> , 2013 , 195, 1904-1916	2.6	33
259	3D elastic full-waveform inversion using P-wave excitation amplitude: Application to ocean bottom cable field data. <i>Geophysics</i> , 2018 , 83, R129-R140	3.1	32
258	A new traveltime approximation for TI media. <i>Geophysics</i> , 2012 , 77, C37-C42	3.1	32
257	From tomography to full-waveform inversion with a single objective function. <i>Geophysics</i> , 2014 , 79, R55-R61	3.1	31

256	An acoustic eikonal equation for attenuating transversely isotropic media with a vertical symmetry axis. <i>Geophysics</i> , 2017 , 82, C9-C20	3.1	30
255	Traveltime approximations for transversely isotropic media with an inhomogeneous background. <i>Geophysics</i> , 2011 , 76, WA31-WA42	3.1	30
254	Fowler DMO and time migration for transversely isotropic media. <i>Geophysics</i> , 1996 , 61, 835-845	3.1	30
253	The application of an optimal transport to a preconditioned data matching function for robust waveform inversion. <i>Geophysics</i> , 2019 , 84, R923-R945	3.1	28
252	Solving the frequency-domain acoustic VTI wave equation using physics-informed neural networks. <i>Geophysical Journal International</i> , 2021 , 225, 846-859	2.6	28
251	Simulating propagation of decoupled elastic waves using low-rank approximate mixed-domain integral operators for anisotropic media. <i>Geophysics</i> , 2016 , 81, T63-T77	3.1	26
250	Regularized full-waveform inversion with automated salt flooding. <i>Geophysics</i> , 2019 , 84, R569-R582	3.1	25
249	High-resolution reservoir characterization using deep learning-aided elastic full-waveform inversion: The North Sea field data example. <i>Geophysics</i> , 2020 , 85, WA137-WA146	3.1	24
248	Efficient scattering-angle enrichment for a nonlinear inversion of the background and perturbations components of a velocity model. <i>Geophysical Journal International</i> , 2017 , 210, 1981-1992	2.6	24
247	Automatic wave-equation migration velocity analysis by focusing subsurface virtual sources. <i>Geophysics</i> , 2018 , 83, U1-U8	3.1	23
246	A highly accurate finite-difference method with minimum dispersion error for solving the Helmholtz equation. <i>Journal of Computational Physics</i> , 2018 , 365, 350-361	4.1	22
245	Microseismic imaging using a source function independent full waveform inversion method. <i>Geophysical Journal International</i> , 2018 , 214, 46-57	2.6	22
244	Efficient traveltime compression for 3D prestack Kirchhoff migration. <i>Geophysical Prospecting</i> , 2011 , 59, 1-9	1.9	22
243	Seismic anisotropy in Trinidad: A new tool for lithology prediction. <i>The Leading Edge</i> , 2001 , 20, 420-424	1	22
242	Elastic reflection waveform inversion with variable density. <i>Geophysics</i> , 2019 , 84, R553-R567	3.1	21
241	A new parameterization for waveform inversion in acoustic orthorhombic media. <i>Geophysics</i> , 2016 , 81, R157-R171	3.1	21
240	Generalized internal multiple imaging (GIMI) using Feynman-like diagrams. <i>Geophysical Journal International</i> , 2014 , 197, 1582-1592	2.6	21
239	Diffraction traveltime approximation for TI media with an inhomogeneous background. <i>Geophysics</i> , 2013 , 78, WC103-WC111	3.1	21

238	Effective orthorhombic anisotropic models for wavefield extrapolation. <i>Geophysical Journal International</i> , 2014 , 198, 1653-1661	2.6	21
237	A transversely isotropic medium with a tilted symmetry axis normal to the reflector. <i>Geophysics</i> , 2010 , 75, A19-A24	3.1	21
236	Full-waveform inversion using a nonlinearly smoothed wavefield. <i>Geophysics</i> , 2018 , 83, R117-R127	3.1	21
235	Microseismic event estimation and velocity analysis based on a source-focusing function. <i>Geophysics</i> , 2019 , 84, KS85-KS94	3.1	20
234	Conditioning the full-waveform inversion gradient to welcome anisotropy. <i>Geophysics</i> , 2015 , 80, R111-R122	3.1	20
233	Waveform inversion for orthorhombic anisotropy with P waves: feasibility and resolution. <i>Geophysical Journal International</i> , 2018 , 213, 963-982	2.6	20
232	Tau migration and velocity analysis: Theory and synthetic examples. <i>Geophysics</i> , 2003 , 68, 1331-1339	3.1	20
231	Case study of estimation of anisotropy. <i>The Leading Edge</i> , 1999 , 18, 588-593	1	20
230	Efficient synthetic-seismogram generation in transversely isotropic, inhomogeneous media. <i>Geophysics</i> , 1995 , 60, 1139-1150	3.1	20
229	New acoustic approximation for transversely isotropic media with a vertical symmetry axis. <i>Geophysics</i> , 2020 , 85, C1-C12	3.1	20
228	Application of perturbation theory to a P-wave eikonal equation in orthorhombic media. <i>Geophysics</i> , 2016 , 81, C309-C317	3.1	20
227	Time-domain full-waveform inversion of exponentially damped wavefield using the deconvolution-based objective function. <i>Geophysics</i> , 2018 , 83, R77-R88	3.1	20
226	Traveltime sensitivity kernels for wave equation tomography using the unwrapped phase. <i>Geophysical Journal International</i> , 2014 , 197, 975-986	2.6	19
225	Generalized internal multiple imaging. <i>Geophysics</i> , 2014 , 79, S207-S216	3.1	19
224	Imaging by forward propagating the data: theory and application. <i>Geophysical Prospecting</i> , 2013 , 61, 248-267	1.9	19
223	A fast sweeping algorithm for accurate solution of the tilted transversely isotropic eikonal equation using factorization. <i>Geophysics</i> , 2017 , 82, WB1-WB8	3.1	18
222	Efficient traveltime solutions of the acoustic TI eikonal equation. <i>Journal of Computational Physics</i> , 2015 , 282, 62-76	4.1	18
221	The scattering potential of partial derivative wavefields in 3-D elastic orthorhombic media: an inversion perspective. <i>Geophysical Journal International</i> , 2016 , 206, 1740-1760	2.6	18

220	Traveltime approximations and parameter estimation for orthorhombic media. <i>Geophysics</i> , 2016 , 81, C127-C137	3.1	18
219	Full-waveform inversion in acoustic orthorhombic media and application to a North Sea data set. <i>Geophysics</i> , 2018 , 83, C179-C193	3.1	18
218	Residual extrapolation operators for efficient wavefield construction. <i>Geophysical Journal International</i> , 2013 , 193, 1027-1034	2.6	18
217	Straight-rays redatuming: A fast and robust alternative to wave-equation-based datuming. <i>Geophysics</i> , 2006 , 71, U37-U46	3.1	18
216	Mapping full seismic waveforms to vertical velocity profiles by deep learning. <i>Geophysics</i> , 2021 , 86, R7113-R721	3.1	18
215	Full waveform inversion using envelope-based global correlation norm. <i>Geophysical Journal International</i> , 2018 , 213, 815-823	2.6	17
214	A parameterization study for elastic VTI full-waveform inversion of hydrophone components: Synthetic and North Sea field data examples. <i>Geophysics</i> , 2017 , 82, R299-R308	3.1	17
213	Prestack phase-shift migration of separate offsets. <i>Geophysics</i> , 2000 , 65, 1179-1194	3.1	17
212	The optimized gradient method for full waveform inversion and its spectral implementation. <i>Geophysical Journal International</i> , 2016 , 205, 1823-1831	2.6	17
211	Scattering Radiation Pattern Atlas: What Anisotropic Elastic Properties Can Body Waves Resolve?. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 2781-2811	3.6	16
210	ML-descent: An optimization algorithm for full-waveform inversion using machine learning. <i>Geophysics</i> , 2020 , 85, R477-R492	3.1	16
209	Normalized nonzero-lag crosscorrelation elastic full-waveform inversion. <i>Geophysics</i> , 2019 , 84, R1-R10	3.1	16
208	Kirchhoff time migration for transversely isotropic media: An application to Trinidad data. <i>Geophysics</i> , 2006 , 71, S29-S35	3.1	15
207	The offset-midpoint traveltime pyramid of P-waves in homogeneous orthorhombic media. <i>Geophysics</i> , 2016 , 81, C151-C162	3.1	15
206	Traveltime approximations for inhomogeneous transversely isotropic media with a horizontal symmetry axis. <i>Geophysical Prospecting</i> , 2013 , 61, 495-503	1.9	14
205	An acoustic eikonal equation for attenuating orthorhombic media. <i>Geophysics</i> , 2017 , 82, WA67-WA81	3.1	14
204	Frequency-domain waveform inversion using the unwrapped phase 2011 ,		14
203	An eikonal-based formulation for traveltime perturbation with respect to the source location. <i>Geophysics</i> , 2010 , 75, T175-T183	3.1	14

202	Variance-based model interpolation for improved full-waveform inversion in the presence of salt bodies. <i>Geophysics</i> , 2018 , 83, R541-R551	3.1	14
201	Efficient full waveform inversion using the excitation representation of the source wavefield. <i>Geophysical Journal International</i> , 2017 , 210, 1581-1594	2.6	13
200	Robust full-waveform inversion with Radon-domain matching filter. <i>Geophysics</i> , 2019 , 84, R707-R724	3.1	13
199	Study on the full-waveform inversion strategy for 3D elastic orthorhombic anisotropic media: application to ocean bottom cable data. <i>Geophysical Prospecting</i> , 2019 , 67, 1219-1242	1.9	13
198	Wave-equation Rayleigh-wave dispersion inversion using fundamental and higher modes. <i>Geophysics</i> , 2019 , 84, EN57-EN65	3.1	13
197	Waveform inversion for acoustic VTI media in frequency domain 2016 ,		13
196	Passive seismic event estimation using multiscattering waveform inversion. <i>Geophysics</i> , 2019 , 84, KS59-K569	3.1	13
195	An efficient wavefield inversion: Using a modified source function in the wave equation. <i>Geophysics</i> , 2019 , 84, R909-R922	3.1	12
194	A new full waveform inversion method based on shifted correlation of the envelope and its implementation based on OPENCL. <i>Computers and Geosciences</i> , 2019 , 129, 1-11	4.5	12
193	Adaptive travelttime inversion. <i>Geophysics</i> , 2019 , 84, U13-U29	3.1	12
192	Efficient Wavefield Inversion With Outer Iterations and Total Variation Constraint. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 5836-5846	8.1	12
191	Optimal full-waveform inversion strategy for marine data in azimuthally rotated elastic orthorhombic media. <i>Geophysics</i> , 2018 , 83, R307-R320	3.1	12
190	Common-image gathers using the excitation amplitude imaging condition. <i>Geophysics</i> , 2016 , 81, S261-S269	3.1	12
189	The possibilities of least-squares migration of internally scattered seismic energy. <i>Geophysics</i> , 2015 , 80, S93-S101	3.1	12
188	Transformation to zero offset in transversely isotropic media. <i>Geophysics</i> , 1996 , 61, 947-963	3.1	12
187	Reflection moveout inversion for horizontal transverse isotropy: Accuracy, limitation, and acquisition. <i>Geophysics</i> , 2000 , 65, 222-231	3.1	12
186	Scattering angle-based filtering via extension in velocity 2016 ,		12
185	Frequency domain multiparameter acoustic inversion for transversely isotropic media with a vertical axis of symmetry. <i>Geophysics</i> , 2019 , 84, C1-C14	3.1	12

184	An efficient Helmholtz solver for acoustic transversely isotropic media. <i>Geophysics</i> , 2018 , 83, C75-C83	3.1	12
183	PINNeik: Eikonal solution using physics-informed neural networks. <i>Computers and Geosciences</i> , 2021 , 155, 104833	4.5	12
182	Full waveform inversion using oriented time-domain imaging method for vertical transverse isotropic media. <i>Geophysical Prospecting</i> , 2017 , 65, 166-180	1.9	11
181	Residual dip moveout in VTI media. <i>Geophysical Prospecting</i> , 2005 , 53, 1-12	1.9	11
180	Analysis of the traveltimes sensitivity kernels for an acoustic transversely isotropic medium with a vertical axis of symmetry. <i>Geophysical Prospecting</i> , 2017 , 65, 22-34	1.9	10
179	Inversion gradients for acoustic VTI wavefield tomography. <i>Geophysics</i> , 2017 , 82, WA55-WA65	3.1	10
178	Local-crosscorrelation elastic full-waveform inversion. <i>Geophysics</i> , 2019 , 84, R897-R908	3.1	10
177	Wave-equation dispersion spectrum inversion for near-surface characterization using fibre-optics acquisition. <i>Geophysical Journal International</i> , 2020 , 222, 907-918	2.6	10
176	The possibilities of compressed-sensing-based Kirchhoff prestack migration. <i>Geophysics</i> , 2014 , 79, S113-S120	3.1	10
175	A tilted transversely isotropic slowness surface approximation. <i>Geophysical Prospecting</i> , 2013 , 61, 568-573	3.1	10
174	An efficient wave extrapolation method for anisotropic media with tilt. <i>Geophysical Prospecting</i> , 2015 , 63, 1126-1141	1.9	10
173	Automatic traveltimes picking using instantaneous traveltimes. <i>Geophysics</i> , 2013 , 78, T53-T58	3.1	10
172	A robust waveform inversion using a global comparison of modeled and observed data. <i>The Leading Edge</i> , 2019 , 38, 185-192	1	9
171	Datum-based waveform inversion using a subsurface-scattering imaging condition. <i>Geophysics</i> , 2019 , 84, S251-S266	3.1	9
170	Multi-parameter reflection waveform inversion for acoustic transversely isotropic media with a vertical symmetry axis. <i>Geophysical Prospecting</i> , 2020 , 68, 1878-1892	1.9	9
169	Two-point paraxial traveltimes formula for inhomogeneous isotropic and anisotropic media: Tests of accuracy. <i>Geophysics</i> , 2013 , 78, WC65-WC80	3.1	9
168	Wide-azimuth angle gathers for anisotropic wave-equation migration. <i>Geophysical Prospecting</i> , 2013 , 61, 75-91	1.9	9
167	The basic components of residual migration in VTI media using anisotropy continuation. <i>Journal of Petroleum Exploration and Production</i> , 2011 , 1, 17-22	2.2	9

166	Style transfer for generation of realistically textured subsurface models 2019 ,		9
165	Wavefield reconstruction inversion via physics-informed neural networks. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-1	8.1	9
164	Target-oriented waveform redatuming and high-resolution inversion: Role of the overburden. <i>Geophysics</i> , 2020 , 85, R525-R536	3.1	9
163	Pure P- and S-wave equations in transversely isotropic media. <i>Geophysical Prospecting</i> , 2020 , 68, 2762-2769		9
162	Analysis of RTM extended images for VTI media. <i>Geophysics</i> , 2016 , 81, S139-S150	3.1	9
161	Subsurface wavefields based on the generalized internal multiple imaging. <i>Geophysical Journal International</i> , 2019 , 219, 1212-1224	2.6	8
160	Joint Minimization of the Mean and Information Entropy of the Matching Filter Distribution for a Robust Misfit Function in Full-Waveform Inversion. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020 , 58, 4704-4720	8.1	8
159	Selective data extension for full-waveform inversion: An efficient solution for cycle skipping. <i>Geophysics</i> , 2018 , 83, R201-R211	3.1	8
158	Estimation of the anisotropy parameters from imaging moveout of diving wave in a factorized anisotropic medium. <i>Geophysics</i> , 2016 , 81, C139-C150	3.1	8
157	Migration velocity analysis using pre-stack wave fields. <i>Geophysical Prospecting</i> , 2017 , 65, 639-649	1.9	8
156	Acoustic wavefield evolution as a function of source location perturbation. <i>Geophysical Journal International</i> , 2010 , 183, 1324-1331	2.6	8
155	Regularized elastic passive equivalent source inversion with full-waveform inversion: Application to a field monitoring microseismic data set. <i>Geophysics</i> , 2020 , 85, KS207-KS219	3.1	8
154	Deep-learning assisted regularized elastic full waveform inversion using the velocity distribution information from wells. <i>Geophysical Journal International</i> , 2021 , 226, 1322-1335	2.6	8
153	Target-oriented time-lapse waveform inversion using deep learning-assisted regularization. <i>Geophysics</i> , 2021 , 86, R485-R495	3.1	8
152	Efficient anisotropic quasi-Pwavefield extrapolation using an isotropic low-rank approximation. <i>Geophysical Journal International</i> , 2018 , 213, 48-57	2.6	7
151	Research Note: Full-waveform inversion of the unwrapped phase of a model. <i>Geophysical Prospecting</i> , 2014 , 62, 397-403	1.9	7
150	Effective wavefield extrapolation in anisotropic media: accounting for resolvable anisotropy. <i>Geophysical Prospecting</i> , 2014 , 62, 1089-1099	1.9	7
149	Mapping moveout approximations in TI media. <i>Geophysics</i> , 2014 , 79, C19-C26	3.1	7

148	Multiparameter Elastic Full Waveform Inversion With Facies Constraints 2017 ,		7
147	Angle gathers in wave-equation imaging for transversely isotropic media. <i>Geophysical Prospecting</i> , 2011 , 59, 422-431	1.9	7
146	Building a 3-D anisotropic model: Its implication to travelttime calculation and velocity analysis 2000 ,		7
145	Extrapolating low-frequency prestack land data with deep learning 2020 ,		7
144	A recipe for practical full-waveform inversion in orthorhombic anisotropy. <i>The Leading Edge</i> , 2016 , 35, 1076-1083	1	7
143	Microseismic Event Estimation Based on an Efficient Wavefield Inversion. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2019 , 12, 4664-4671	4.7	7
142	Multistage elastic full-waveform inversion for tilted transverse isotropic media. <i>Geophysical Journal International</i> , 2020 , 223, 57-76	2.6	6
141	An efficient wavefield inversion for transversely isotropic media with a vertical axis of symmetry. <i>Geophysics</i> , 2020 , 85, R195-R206	3.1	6
140	Multisource waveform inversion of marine streamer data using normalized wavefield. <i>Geophysics</i> , 2013 , 78, R197-R206	3.1	6
139	Wavefield extrapolation in pseudodepth domain. <i>Geophysics</i> , 2013 , 78, S81-S91	3.1	6
138	Application of the topographic datuming operator to a data set from the Eastern Arabian Peninsula. <i>Geophysical Prospecting</i> , 2006 , 54, 731-737	1.9	6
137	Wavefield reconstruction inversion via machine learned functions 2020 ,		6
136	Velocity model building by deep learning: From general synthetics to field data application 2020 ,		6
135	Deep Learning Tomography by Mapping Full Seismic Waveforms to Vertical Velocity Profiles 2020 ,		6
134	A versatile framework to solve the Helmholtz equation using physics-informed neural networks. <i>Geophysical Journal International</i> ,	2.6	6
133	A hybrid finite-difference/low-rank solution to anisotropy acoustic wave equations. <i>Geophysics</i> , 2019 , 84, T83-T91	3.1	6
132	Wavefield solutions from machine learned functions constrained by the Helmholtz equation. <i>Artificial Intelligence in Geosciences</i> , 2021 , 2, 11-19	2	6
131	Flux-corrected transport for full-waveform inversion. <i>Geophysical Journal International</i> , 2019 , 217, 2147-2164	2.164	5

130	Anisotropy signature in reverse-time migration extended images. <i>Geophysical Prospecting</i> , 2015 , 63, 271-282	1.9	5
129	Pure quasi-P-wave calculation in transversely isotropic media using a hybrid method. <i>Geophysical Journal International</i> , 2018 , 214, 421-429	2.6	5
128	3D elastic-orthorhombic anisotropic full-waveform inversion: Application to field OBC data 2016 ,		5
127	P-wave complex-valued traveltimes in homogeneous attenuating transversely isotropic media. <i>Geophysical Prospecting</i> , 2019 , 67, 2402-2413	1.9	5
126	Analytical approximations of diving-wave imaging in constant-gradient medium. <i>Geophysics</i> , 2014 , 79, S131-S140	3.1	5
125	An analysis of AVO inversion for postcritical offsets in HTI media. <i>Geophysics</i> , 2013 , 78, N11-N20	3.1	5
124	Angle gathers in wave-equation imaging for VTI media 2009 ,		5
123	Efficient scattering angle filtering for Full waveform inversion 2015 ,		5
122	The application of an optimal transport to a preconditioned data matching function for robust waveform inversion 2018 ,		5
121	High-Resolution Regularized Elastic Full Waveform Inversion Assisted by Deep Learning 2020 ,		5
120	The effectiveness of a pseudo-inverse extended Born operator to handle lateral heterogeneity for imaging and velocity analysis applications. <i>Geophysical Prospecting</i> , 2020 , 68, 1154-1166	1.9	5
119	Enhancing Low-Wavenumber Information in Reflection Waveform Inversion by the Energy Norm Born Scattering. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2021 , 1-5	4.1	5
118	Scanning anisotropy parameters in horizontal transversely isotropic media. <i>Geophysical Prospecting</i> , 2017 , 65, 981-991	1.9	4
117	KFUPM-KAUST Red Sea model: Digital viscoelastic depth model and synthetic seismic data set. <i>The Leading Edge</i> , 2017 , 36, 507-511	1	4
116	A partial-low-rank method for solving acoustic wave equation. <i>Journal of Computational Physics</i> , 2019 , 385, 1-12	4.1	4
115	Image-domain wavefield tomography for VTI media. <i>Geophysics</i> , 2019 , 84, C119-C128	3.1	4
114	Full-waveform inversion with reflected waves for 2D VTI media 2016 ,		4
113	Acoustic anisotropic wavefields through perturbation theory. <i>Geophysics</i> , 2013 , 78, WC41-WC50	3.1	4

112	Nonstationary filter used in microseismic-source imaging 2017 ,		4
111	Estimation of fracture parameters using elastic full-waveform inversion 2017 ,		4
110	Research Note: The sensitivity of surface seismic P-wave data in transversely isotropic media to reflector depth. <i>Geophysical Prospecting</i> , 2017 , 65, 1398-1406	1.9	4
109	Source-receiver two-way wave extrapolation for prestack exploding-reflector modeling and migration 2010 ,		4
108	Emigration and velocity analysis: application to data from the Red Sea. <i>Geophysical Prospecting</i> , 2005 , 53, 643-653	1.9	4
107	Reflection moveout inversion in azimuthally anisotropic media: accuracy, limitations and acquisition. <i>Geophysical Prospecting</i> , 1999 , 47, 735-756	1.9	4
106	Hybrid frequency-domain full-waveform inversion using ray+Born sensitivity kernels. <i>Geophysics</i> , 2020 , 85, R339-R347	3.1	4
105	Time-lapse waveform inversion regularized by spectral constraints and Sobolev space norm 2018 ,		4
104	Target-oriented inversion with least-squares waveform redatuming 2019 ,		4
103	Machine learned Green's functions that approximately satisfy the wave equation 2020 ,		4
102	Main components of full-waveform inversion for reservoir characterization. <i>First Break</i> , 2016 , 34,	0.5	4
101	Anisotropic eikonal solution using physics-informed neural networks 2020 ,		4
100	Source-independent efficient wavefield inversion. <i>Geophysical Journal International</i> , 2020 , 222, 697-714	2.6	4
99	Viscoacoustic anisotropic wave equations. <i>Geophysics</i> , 2019 , 84, C323-C337	3.1	3
98	An introduction to this special section: Full-waveform inversion and the way forward. <i>The Leading Edge</i> , 2013 , 32, 1026-1028	1	3
97	Wavefield separation by energy norm Born scattering 2017 ,		3
96	Full waveform inversion based on scattering angle enrichment with application to real dataset 2015 ,		3
95	The offset-midpoint traveltimes pyramid in 3D transversely isotropic media with a horizontal symmetry axis. <i>Geophysics</i> , 2015 , 80, T51-T62	3.1	3

94	Source-receiver two-way wave extrapolation for prestack exploding-reflector modelling and migration. <i>Geophysical Prospecting</i> , 2015 , 63, 23-34	1.9	3
93	Mapping of moveout in tilted transversely isotropic media. <i>Geophysical Prospecting</i> , 2013 , 61, 1171-1177	1.9	3
92	Prestack wavefield approximations. <i>Geophysics</i> , 2013 , 78, T141-T149	3.1	3
91	Migration Using a Transversely Isotropic Medium with Symmetry Normal to the Reflector Dip. <i>International Journal of Geophysics</i> , 2011 , 2011, 1-5	2	3
90	Prestack traveltimes approximations. <i>Geophysics</i> , 2012 , 77, U31-U37	3.1	3
89	Anisotropy signature in extended images from reverse-time migration 2012 ,		3
88	Kinematics of 3-D DMO operators in transversely isotropic media. <i>Geophysics</i> , 1997 , 62, 1214-1219	3.1	3
87	Frequency-domain least-squares generalized internal multiple imaging with the energy norm. <i>Geophysics</i> , 2020 , 85, S233-S240	3.1	3
86	Anisotropic parameter inversion in VTI media using diffraction data 2013 ,		3
85	Finite frequency traveltimes sensitivity kernels for acoustic anisotropic media: Angle dependent bananas 2013 ,		3
84	Monofrequency waveform acquisition and inversion: A new paradigm 2014 ,		3
83	Multiscale full-waveform inversion using flux-corrected transport 2018 ,		3
82	An efficient wavefield inversion for isotropic elastic media 2019 ,		3
81	Target-oriented time-lapse waveform inversion using redatumed data: Feasibility and robustness 2020 ,		3
80	Eikonal Solution Using Physics-Informed Neural Networks 2020 ,		3
79	Data-driven Microseismic Event Localization: an Application to the Oklahoma Arkoma Basin Hydraulic Fracturing Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-1	8.1	3
78	Effective ellipsoidal models for wavefield extrapolation in tilted orthorhombic media. <i>Studia Geophysica Et Geodaetica</i> , 2016 , 60, 349-369	0.7	3
77	ML-descent: An optimization algorithm for FWI using machine learning 2019 ,		3

76	Seismic model low wavenumber extrapolation by a deep convolutional neural network. <i>ASEG Extended Abstracts</i> , 2019 , 2019, 1-5	0.2	3
75	Adaptive data-selection elastic full-waveform inversion 2018 ,		3
74	A reflection-based efficient wavefield inversion. <i>Geophysics</i> , 2021 , 86, R497-R508	3.1	3
73	Prestack exploding reflector modelling and migration for anisotropic media. <i>Geophysical Prospecting</i> , 2015 , 63, 2-10	1.9	2
72	The linearized inversion of the generalized interferometric multiple imaging 2016 ,		2
71	Effective anisotropy through traveltimes and amplitude matching 2014 ,		2
70	Waveform inversion in acoustic orthorhombic media with a practical set of parameters 2017 ,		2
69	Anisotropy parameter inversion in vertical axis of symmetry media using diffractions. <i>Geophysical Prospecting</i> , 2017 , 65, 194-203	1.9	2
68	Full model wavenumber inversion (FMWI) 2015 ,		2
67	Prestack phase-shift migration of separate offsets in laterally inhomogeneous media. <i>Geophysics</i> , 2010 , 75, S95-S101	3.1	2
66	Wide-azimuth angle-domain imaging for anisotropic reverse-time migration 2011 ,		2
65	A linearized dispersion relation for orthorhombic pseudo-acoustic modeling 2012 ,		2
64	Multi-parameters scanning in HTI media 2014 ,		2
63	Analysis of the multi-component pseudo-pure-mode qP-wave inversion in vertical transverse isotropic (VTI) media 2014 ,		2
62	Multi-scattering inversion for low model wavenumbers 2015 ,		2
61	Wave-equation Rayleigh wave inversion using fundamental and higher modes 2018 ,		2
60	Regularized full-waveform inversion for salt bodies 2018 ,		2
59	Stereo optimal transport of the matching filter 2019 ,		2

58	Direct Green's function retrieval with internal multiples: An alternative to Marchenko focusing 2019,		2
57	Rayleigh Wave Dispersion Spectrum Inversion Across Scales. <i>Surveys in Geophysics</i> ,1	7.6	2
56	Elastic near-surface model estimation from full waveforms by deep learning 2020,		2
55	A sequential inversion with outer iterations for the velocity and the intrinsic attenuation using an efficient wavefield inversion. <i>Geophysics</i> , 2020 , 85, R447-R459	3.1	2
54	Machine-driven earth exploration: Artificial intelligence in oil and gas. <i>The Leading Edge</i> , 2021 , 40, 298-301		2
53	Full-waveform inversion using the excitation representation of the source wavefield 2016,		2
52	A nonlinear approach of elastic reflection waveform inversion 2016,		2
51	Near-surface S-wave velocity estimation using ambient noise from fiber-optic acquisition 2019,		2
50	A modified physics-informed neural network with positional encoding 2021,		2
49	A recipe for practical full-waveform inversion in orthorhombic anisotropy 2016,		1
48	Multiparameter elastic full-waveform inversion in the presence of azimuthally rotated orthorhombic anisotropy: Application to 9-C land data 2017,		1
47	Acoustic VTI wavefield tomography of P-wave surface and VSP data 2017,		1
46	Acoustic eikonal solutions for attenuating VTI media 2017,		1
45	Full waveform inversion using oriented time-domain imaging method 2015,		1
44	Simulating propagation of decomposed elastic waves using low-rank approximate mixed-domain integral operators for heterogeneous transversely isotropic media 2014,		1
43	Mapping the base of sand dunes using a new design of land-streamer for static correction applications. <i>Journal of Petroleum Exploration and Production</i> , 2012 , 2, 57-65	2.2	1
42	Wavefield dependency on virtual shifts in the source location. <i>Geophysical Prospecting</i> , 2011 , 59, 627-634.	1.9	1
41	Automatic traveltimes picking using local time-frequency maps 2011,		1

40	Azimuth moveout correction for transversely isotropic media. <i>Geophysical Prospecting</i> , 2004 , 52, 39-48	1.9	1
39	Prestack traveltimes approximations 2011 ,		1
38	A stable implementation of the prestack exploding reflector modeling and migration 2011 ,		1
37	Prestack exploding reflector modeling and migration for anisotropic media: a parameter estimation tool 2012 ,		1
36	Prestack traveltimes for dip-constrained TI media 2012 ,		1
35	The possibilities of linearized inversion of internally scattered seismic data 2014 ,		1
34	Vertical elliptic operator for efficient wave propagation in TTI media 2015 ,		1
33	Multi-Parameter Estimation for Orthorhombic Media 2015 ,		1
32	Adaptive traveltimes inversion with information entropy regularization 2019 ,		1
31	Reflection waveform inversion in acoustic VTI media 2019 ,		1
30	Target-oriented time-lapse waveform inversion using a deep learning-assisted regularization 2020 ,		1
29	Wave-equation migration velocity analysis via the optimal-transport-based objective function 2020 ,		1
28	Machine Learning Enabled Traveltime Inversion Based on the Horizontal Source Location Perturbation. <i>Geophysics</i> ,1-40	3.1	1
27	Subsurface wavefields based on the generalized internal multiple imaging 2018 ,		1
26	Regularized passive elastic full-waveform inversion with an unknown source 2018 ,		1
25	A comparison between two fast sweeping algorithms for solving the attenuating VTI eikonal equation 2019 ,		1
24	Passive seismic full waveform inversion with unknown onsets in an orthorhombic anisotropic medium 2019 ,		1
23	ML-adjoint: Learn the adjoint source directly for full-waveform inversion using machine learning 2020 ,		1

22	An efficient wave extrapolation method for tilted orthorhombic media using effective ellipsoidal models 2014 ,		1
21	Application of the unwrapped phase inversion to land data without source estimation 2015 ,		1
20	Elastic reflection waveform inversion with variable density 2017 ,		1
19	Practical waveform inversion in anisotropic media: The natural combination of the data and image objectives 2016 ,		1
18	Subspace methods for time-lapse elastic full-waveform inversion 2018 ,		1
17	Direct microseismic event location and characterization from passive seismic data using convolutional neural networks. <i>Geophysics</i> , 2021 , 86, KS109-KS121	3.1	1
16	High-dimensional wavefield solutions based on neural network functions 2021 ,		1
15	Two-step full waveform inversion of diving and reflected waves with the diffraction-angle-filtering-based scale-separation technique. <i>Geophysical Journal International</i> , 2022 , 229, 880-897	2.6	1
14	Single Reference Frequency Loss for Multi-frequency Wavefield Representation using Physics-Informed Neural Networks. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022 , 1-1	4.1	1
13	Regularized elastic full-waveform inversion using deep learning 2022 , 219-250		1
12	Target-oriented high-resolution elastic full waveform inversion with an elastic redatuming method. <i>Geophysics</i> , 1-77	3.1	1
11	Extended full waveform inversion with matching filter. <i>Geophysical Prospecting</i> , 2021 , 69, 1441-1454	1.9	0
10	Frequency-domain reflection waveform inversion with generalized internal multiple imaging. <i>Geophysics</i> , 2021 , 86, R701-R710	3.1	0
9	Pseudo-elastic pure P-mode wave equation. <i>Geophysics</i> , 1-95	3.1	0
8	Time-lapse data matching using a recurrent neural network approach. <i>Geophysics</i> , 1-83	3.1	0
7	Bahrain workshop asks "What are we getting?" from FWI. <i>The Leading Edge</i> , 2018 , 37, 544-546	1	
6	Full-waveform inversion: Filling the gaps. <i>The Leading Edge</i> , 2015 , 34, 1106-1107	1	
5	Wave-equation migration velocity analysis via the optimal-transport-based objective function. <i>Geophysics</i> , 1-60	3.1	

4 Pre-stack 3-D Tau migration and velocity analysis: application to 3-D seismic data from offshore Abu Dhabi, United Arab Emirates. *Georabia*, **2006**, 11, 43-60

3 Laboratory coupling tests for optimum land streamer design over sand dunes surface. *ASEG Extended Abstracts*, **2012**, 2012, 1-4 0.2

2 Full-waveform inversion: From near surface to deep. *The Leading Edge*, **2013**, 32, 1394-1398 1

1 A holistic approach to computing first-arrival traveltimes using neural networks **2022**, 251-278