

# Tariq Alkhalifah

## List of Publications by Year in Descending Order

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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	Two-step full waveform inversion of diving and reflected waves with the diffraction-angle-filtering-based scale-separation technique. <i>Geophysical Journal International</i> , <b>2022</b> , 229, 880-897	2.6	1
290	Single Reference Frequency Loss for Multi-frequency Wavefield Representation using Physics-Informed Neural Networks. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2022</b> , 1-1	4.1	1
289	Regularized elastic full-waveform inversion using deep learning <b>2022</b> , 219-250		1
288	A holistic approach to computing first-arrival traveltimes using neural networks <b>2022</b> , 251-278		
287	Wavefield reconstruction inversion via physics-informed neural networks. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-1	8.1	9
286	Data-driven Microseismic Event Localization: an Application to the Oklahoma Arkoma Basin Hydraulic Fracturing Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-1	8.1	3
285	Machine-driven earth exploration: Artificial intelligence in oil and gas. <i>The Leading Edge</i> , <b>2021</b> , 40, 298-301		2
284	Deep-learning assisted regularized elastic full waveform inversion using the velocity distribution information from wells. <i>Geophysical Journal International</i> , <b>2021</b> , 226, 1322-1335	2.6	8
283	Target-oriented time-lapse waveform inversion using deep learning-assisted regularization. <i>Geophysics</i> , <b>2021</b> , 86, R485-R495	3.1	8
282	Extended full waveform inversion with matching filter. <i>Geophysical Prospecting</i> , <b>2021</b> , 69, 1441-1454	1.9	0
281	Enhancing Low-Wavenumber Information in Reflection Waveform Inversion by the Energy Norm Born Scattering. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 1-5	4.1	5
280	Solving the frequency-domain acoustic VTI wave equation using physics-informed neural networks. <i>Geophysical Journal International</i> , <b>2021</b> , 225, 846-859	2.6	28
279	A reflection-based efficient wavefield inversion. <i>Geophysics</i> , <b>2021</b> , 86, R497-R508	3.1	3
278	Frequency-domain reflection waveform inversion with generalized internal multiple imaging. <i>Geophysics</i> , <b>2021</b> , 86, R701-R710	3.1	0
277	Mapping full seismic waveforms to vertical velocity profiles by deep learning. <i>Geophysics</i> , <b>2021</b> , 86, R711-R721		18
276	Direct microseismic event location and characterization from passive seismic data using convolutional neural networks. <i>Geophysics</i> , <b>2021</b> , 86, KS109-KS121	3.1	1
275	A modified physics-informed neural network with positional encoding <b>2021</b> ,		2

274	High-dimensional wavefield solutions based on neural network functions <b>2021</b> ,		1
273	PINNeik: Eikonal solution using physics-informed neural networks. <i>Computers and Geosciences</i> , <b>2021</b> , 155, 104833	4.5	12
272	Wavefield solutions from machine learned functions constrained by the Helmholtz equation. <i>Artificial Intelligence in Geosciences</i> , <b>2021</b> , 2, 11-19	2	6
271	Wave-equation dispersion spectrum inversion for near-surface characterization using fibre-optics acquisition. <i>Geophysical Journal International</i> , <b>2020</b> , 222, 907-918	2.6	10
270	Multi-parameter reflection waveform inversion for acoustic transversely isotropic media with a vertical symmetry axis. <i>Geophysical Prospecting</i> , <b>2020</b> , 68, 1878-1892	1.9	9
269	Multistage elastic full-waveform inversion for tilted transverse isotropic media. <i>Geophysical Journal International</i> , <b>2020</b> , 223, 57-76	2.6	6
268	Efficient Wavefield Inversion With Outer Iterations and Total Variation Constraint. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2020</b> , 58, 5836-5846	8.1	12
267	An efficient wavefield inversion for transversely isotropic media with a vertical axis of symmetry. <i>Geophysics</i> , <b>2020</b> , 85, R195-R206	3.1	6
266	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> , <b>2020</b> , 58, 4704-4720	8.1	8
265	High-resolution reservoir characterization using deep learning-aided elastic full-waveform inversion: The North Sea field data example. <i>Geophysics</i> , <b>2020</b> , 85, WA137-WA146	3.1	24
264	Hybrid frequency-domain full-waveform inversion using ray+Born sensitivity kernels. <i>Geophysics</i> , <b>2020</b> , 85, R339-R347	3.1	4
263	Frequency-domain least-squares generalized internal multiple imaging with the energy norm. <i>Geophysics</i> , <b>2020</b> , 85, S233-S240	3.1	3
262	Target-oriented time-lapse waveform inversion using redatumed data: Feasibility and robustness <b>2020</b> ,		3
261	Machine learned Green's functions that approximately satisfy the wave equation <b>2020</b> ,		4
260	Target-oriented time-lapse waveform inversion using a deep learning-assisted regularization <b>2020</b> ,		1
259	Wavefield reconstruction inversion via machine learned functions <b>2020</b> ,		6
258	Extrapolating low-frequency prestack land data with deep learning <b>2020</b> ,		7
257	Velocity model building by deep learning: From general synthetics to field data application <b>2020</b> ,		6

256	Wave-equation migration velocity analysis via the optimal-transport-based objective function <b>2020</b> ,		1
255	High-Resolution Regularized Elastic Full Waveform Inversion Assisted by Deep Learning <b>2020</b> ,		5
254	Eikonal Solution Using Physics-Informed Neural Networks <b>2020</b> ,		3
253	Deep Learning Tomography by Mapping Full Seismic Waveforms to Vertical Velocity Profiles <b>2020</b> ,		6
252	ML-adjoint: Learn the adjoint source directly for full-waveform inversion using machine learning <b>2020</b> ,		1
251	Elastic near-surface model estimation from full waveforms by deep learning <b>2020</b> ,		2
250	New acoustic approximation for transversely isotropic media with a vertical symmetry axis. <i>Geophysics</i> , <b>2020</b> , 85, C1-C12	3.1	20
249	The effectiveness of a pseudo-inverse extended Born operator to handle lateral heterogeneity for imaging and velocity analysis applications. <i>Geophysical Prospecting</i> , <b>2020</b> , 68, 1154-1166	1.9	5
248	Anisotropic eikonal solution using physics-informed neural networks <b>2020</b> ,		4
247	Source-independent efficient wavefield inversion. <i>Geophysical Journal International</i> , <b>2020</b> , 222, 697-714	2.6	4
246	ML-descent: An optimization algorithm for full-waveform inversion using machine learning. <i>Geophysics</i> , <b>2020</b> , 85, R477-R492	3.1	16
245	Target-oriented waveform redatuming and high-resolution inversion: Role of the overburden. <i>Geophysics</i> , <b>2020</b> , 85, R525-R536	3.1	9
244	Regularized elastic passive equivalent source inversion with full-waveform inversion: Application to a field monitoring microseismic data set. <i>Geophysics</i> , <b>2020</b> , 85, KS207-KS219	3.1	8
243	A sequential inversion with outer iterations for the velocity and the intrinsic attenuation using an efficient wavefield inversion. <i>Geophysics</i> , <b>2020</b> , 85, R447-R459	3.1	2
242	Pure P- and S-wave equations in transversely isotropic media. <i>Geophysical Prospecting</i> , <b>2020</b> , 68, 2762-2769		9
241	The application of an optimal transport to a preconditioned data matching function for robust waveform inversion. <i>Geophysics</i> , <b>2019</b> , 84, R923-R945	3.1	28
240	Subsurface wavefields based on the generalized internal multiple imaging. <i>Geophysical Journal International</i> , <b>2019</b> , 219, 1212-1224	2.6	8
239	Local-crosscorrelation elastic full-waveform inversion. <i>Geophysics</i> , <b>2019</b> , 84, R897-R908	3.1	10

238	Viscoacoustic anisotropic wave equations. <i>Geophysics</i> , <b>2019</b> , 84, C323-C337	3.1	3
237	Deep learning for low-frequency extrapolation from multioffset seismic data. <i>Geophysics</i> , <b>2019</b> , 84, R989-R1007	3.1	10
236	An efficient wavefield inversion: Using a modified source function in the wave equation. <i>Geophysics</i> , <b>2019</b> , 84, R909-R922	3.1	12
235	Microseismic event estimation and velocity analysis based on a source-focusing function. <i>Geophysics</i> , <b>2019</b> , 84, KS85-KS94	3.1	20
234	Robust full-waveform inversion with Radon-domain matching filter. <i>Geophysics</i> , <b>2019</b> , 84, R707-R724	3.1	13
233	A new full waveform inversion method based on shifted correlation of the envelope and its implementation based on OPENCL. <i>Computers and Geosciences</i> , <b>2019</b> , 129, 1-11	4.5	12
232	Adaptive travelttime inversion. <i>Geophysics</i> , <b>2019</b> , 84, U13-U29	3.1	12
231	Elastic reflection waveform inversion with variable density. <i>Geophysics</i> , <b>2019</b> , 84, R553-R567	3.1	21
230	A partial-low-rank method for solving acoustic wave equation. <i>Journal of Computational Physics</i> , <b>2019</b> , 385, 1-12	4.1	4
229	A robust waveform inversion using a global comparison of modeled and observed data. <i>The Leading Edge</i> , <b>2019</b> , 38, 185-192	1	9
228	Study on the full-waveform inversion strategy for 3D elastic orthorhombic anisotropic media: application to ocean bottom cable data. <i>Geophysical Prospecting</i> , <b>2019</b> , 67, 1219-1242	1.9	13
227	Datum-based waveform inversion using a subsurface-scattering imaging condition. <i>Geophysics</i> , <b>2019</b> , 84, S251-S266	3.1	9
226	Scattering Radiation Pattern Atlas: What Anisotropic Elastic Properties Can Body Waves Resolve?. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 2781-2811	3.6	16
225	Image-domain wavefield tomography for VTI media. <i>Geophysics</i> , <b>2019</b> , 84, C119-C128	3.1	4
224	Regularized full-waveform inversion with automated salt flooding. <i>Geophysics</i> , <b>2019</b> , 84, R569-R582	3.1	25
223	Wave-equation Rayleigh-wave dispersion inversion using fundamental and higher modes. <i>Geophysics</i> , <b>2019</b> , 84, EN57-EN65	3.1	13
222	Flux-corrected transport for full-waveform inversion. <i>Geophysical Journal International</i> , <b>2019</b> , 217, 2147-2164	2.664	5
221	Regularized elastic full-waveform inversion using deep learning. <i>Geophysics</i> , <b>2019</b> , 84, R741-R751	3.1	47

220	P-wave complex-valued traveltimes in homogeneous attenuating transversely isotropic media. <i>Geophysical Prospecting</i> , <b>2019</b> , 67, 2402-2413	1.9	5
219	Stereo optimal transport of the matching filter <b>2019</b> ,		2
218	An efficient wavefield inversion for isotropic elastic media <b>2019</b> ,		3
217	Adaptive travelttime inversion with information entropy regularization <b>2019</b> ,		1
216	Reflection waveform inversion in acoustic VTI media <b>2019</b> ,		1
215	Target-oriented inversion with least-squares waveform re-datuming <b>2019</b> ,		4
214	Style transfer for generation of realistically textured subsurface models <b>2019</b> ,		9
213	Direct Green's function retrieval with internal multiples: An alternative to Marchenko focusing <b>2019</b> ,		2
212	A comparison between two fast sweeping algorithms for solving the attenuating VTI eikonal equation <b>2019</b> ,		1
211	Passive seismic full waveform inversion with unknown onsets in an orthorhombic anisotropic medium <b>2019</b> ,		1
210	Near-surface S-wave velocity estimation using ambient noise from fiber-optic acquisition <b>2019</b> ,		2
209	ML-descent: An optimization algorithm for FWI using machine learning <b>2019</b> ,		3
208	Microseismic Event Estimation Based on an Efficient Wavefield Inversion. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2019</b> , 12, 4664-4671	4.7	7
207	Seismic model low wavenumber extrapolation by a deep convolutional neural network. <i>ASEG Extended Abstracts</i> , <b>2019</b> , 2019, 1-5	0.2	3
206	Frequency domain multiparameter acoustic inversion for transversely isotropic media with a vertical axis of symmetry. <i>Geophysics</i> , <b>2019</b> , 84, C1-C14	3.1	12
205	Passive seismic event estimation using multiscattering waveform inversion. <i>Geophysics</i> , <b>2019</b> , 84, KS59-K569	3.1	13
204	Normalized nonzero-lag crosscorrelation elastic full-waveform inversion. <i>Geophysics</i> , <b>2019</b> , 84, R1-R10	3.1	16
203	A hybrid finite-difference/low-rank solution to anisotropy acoustic wave equations. <i>Geophysics</i> , <b>2019</b> , 84, T83-T91	3.1	6

202	Pure quasi-P-wave calculation in transversely isotropic media using a hybrid method. <i>Geophysical Journal International</i> , <b>2018</b> , 214, 421-429	2.6	5
201	A highly accurate finite-difference method with minimum dispersion error for solving the Helmholtz equation. <i>Journal of Computational Physics</i> , <b>2018</b> , 365, 350-361	4.1	22
200	Full waveform inversion using envelope-based global correlation norm. <i>Geophysical Journal International</i> , <b>2018</b> , 213, 815-823	2.6	17
199	Waveform inversion for orthorhombic anisotropy with P waves: feasibility and resolution. <i>Geophysical Journal International</i> , <b>2018</b> , 213, 963-982	2.6	20
198	3D elastic full-waveform inversion using P-wave excitation amplitude: Application to ocean bottom cable field data. <i>Geophysics</i> , <b>2018</b> , 83, R129-R140	3.1	32
197	Selective data extension for full-waveform inversion: An efficient solution for cycle skipping. <i>Geophysics</i> , <b>2018</b> , 83, R201-R211	3.1	8
196	Efficient anisotropic quasi-Pwavefield extrapolation using an isotropic low-rank approximation. <i>Geophysical Journal International</i> , <b>2018</b> , 213, 48-57	2.6	7
195	Multiparameter elastic full waveform inversion with facies-based constraints. <i>Geophysical Journal International</i> , <b>2018</b> , 213, 2112-2127	2.6	35
194	Microseismic imaging using a source function independent full waveform inversion method. <i>Geophysical Journal International</i> , <b>2018</b> , 214, 46-57	2.6	22
193	Optimal full-waveform inversion strategy for marine data in azimuthally rotated elastic orthorhombic media. <i>Geophysics</i> , <b>2018</b> , 83, R307-R320	3.1	12
192	Full model wavenumber inversion: Identifying sources of information for the elusive middle model wavenumbers. <i>Geophysics</i> , <b>2018</b> , 83, R597-R610	3.1	34
191	Bahrain workshop asks "What are we getting?" from FWI. <i>The Leading Edge</i> , <b>2018</b> , 37, 544-546	1	
190	Full-waveform inversion in acoustic orthorhombic media and application to a North Sea data set. <i>Geophysics</i> , <b>2018</b> , 83, C179-C193	3.1	18
189	Multiscale full-waveform inversion using flux-corrected transport <b>2018</b> ,		3
188	Wave-equation Rayleigh wave inversion using fundamental and higher modes <b>2018</b> ,		2
187	The application of an optimal transport to a preconditioned data matching function for robust waveform inversion <b>2018</b> ,		5
186	Regularized full-waveform inversion for salt bodies <b>2018</b> ,		2
185	Time-lapse waveform inversion regularized by spectral constraints and Sobolev space norm <b>2018</b> ,		4

184	Subsurface wavefields based on the generalized internal multiple imaging <b>2018</b> ,		1
183	Regularized passive elastic full-waveform inversion with an unknown source <b>2018</b> ,		1
182	Full-waveform inversion using a nonlinearly smoothed wavefield. <i>Geophysics</i> , <b>2018</b> , 83, R117-R127	3.1	21
181	Automatic wave-equation migration velocity analysis by focusing subsurface virtual sources. <i>Geophysics</i> , <b>2018</b> , 83, U1-U8	3.1	23
180	Time-domain full-waveform inversion of exponentially damped wavefield using the deconvolution-based objective function. <i>Geophysics</i> , <b>2018</b> , 83, R77-R88	3.1	20
179	An efficient Helmholtz solver for acoustic transversely isotropic media. <i>Geophysics</i> , <b>2018</b> , 83, C75-C83	3.1	12
178	Adaptive data-selection elastic full-waveform inversion <b>2018</b> ,		3
177	Subspace methods for time-lapse elastic full-waveform inversion <b>2018</b> ,		1
176	Variance-based model interpolation for improved full-waveform inversion in the presence of salt bodies. <i>Geophysics</i> , <b>2018</b> , 83, R541-R551	3.1	14
175	Analysis of the traveltimes sensitivity kernels for an acoustic transversely isotropic medium with a vertical axis of symmetry. <i>Geophysical Prospecting</i> , <b>2017</b> , 65, 22-34	1.9	10
174	Scanning anisotropy parameters in horizontal transversely isotropic media. <i>Geophysical Prospecting</i> , <b>2017</b> , 65, 981-991	1.9	4
173	Efficient full waveform inversion using the excitation representation of the source wavefield. <i>Geophysical Journal International</i> , <b>2017</b> , 210, 1581-1594	2.6	13
172	KFUPM-KAUST Red Sea model: Digital viscoelastic depth model and synthetic seismic data set. <i>The Leading Edge</i> , <b>2017</b> , 36, 507-511	1	4
171	A fast sweeping algorithm for accurate solution of the tilted transversely isotropic eikonal equation using factorization. <i>Geophysics</i> , <b>2017</b> , 82, WB1-WB8	3.1	18
170	Inversion gradients for acoustic VTI wavefield tomography. <i>Geophysics</i> , <b>2017</b> , 82, WA55-WA65	3.1	10
169	An acoustic eikonal equation for attenuating transversely isotropic media with a vertical symmetry axis. <i>Geophysics</i> , <b>2017</b> , 82, C9-C20	3.1	30
168	Nonstationary filter used in microseismic-source imaging <b>2017</b> ,		4
167	Estimation of fracture parameters using elastic full-waveform inversion <b>2017</b> ,		4



166	Waveform inversion in acoustic orthorhombic media with a practical set of parameters <b>2017</b> ,		2
165	Multiparameter elastic full-waveform inversion in the presence of azimuthally rotated orthorhombic anisotropy: Application to 9-C land data <b>2017</b> ,		1
164	Acoustic VTI wavefield tomography of P-wave surface and VSP data <b>2017</b> ,		1
163	Elastic reflection-based waveform inversion with a nonlinear approach. <i>Geophysics</i> , <b>2017</b> , 82, R309-R321	3.1	47
162	Wavefield separation by energy norm Born scattering <b>2017</b> ,		3
161	Multiparameter Elastic Full Waveform Inversion With Facies Constraints <b>2017</b> ,		7
160	Acoustic eikonal solutions for attenuating VTI media <b>2017</b> ,		1
159	Full waveform inversion using oriented time-domain imaging method for vertical transverse isotropic media. <i>Geophysical Prospecting</i> , <b>2017</b> , 65, 166-180	1.9	11
158	Research Note: The sensitivity of surface seismic P-wave data in transversely isotropic media to reflector depth. <i>Geophysical Prospecting</i> , <b>2017</b> , 65, 1398-1406	1.9	4
157	An acoustic eikonal equation for attenuating orthorhombic media. <i>Geophysics</i> , <b>2017</b> , 82, WA67-WA81	3.1	14
156	Efficient scattering-angle enrichment for a nonlinear inversion of the background and perturbations components of a velocity model. <i>Geophysical Journal International</i> , <b>2017</b> , 210, 1981-1992	2.6	24
155	A parameterization study for elastic VTI full-waveform inversion of hydrophone components: Synthetic and North Sea field data examples. <i>Geophysics</i> , <b>2017</b> , 82, R299-R308	3.1	17
154	Anisotropy parameter inversion in vertical axis of symmetry media using diffractions. <i>Geophysical Prospecting</i> , <b>2017</b> , 65, 194-203	1.9	2
153	Migration velocity analysis using pre-stack wave fields. <i>Geophysical Prospecting</i> , <b>2017</b> , 65, 639-649	1.9	8
152	Elastic reflection waveform inversion with variable density <b>2017</b> ,		1
151	The linearized inversion of the generalized interferometric multiple imaging <b>2016</b> ,		2
150	A recipe for practical full-waveform inversion in orthorhombic anisotropy <b>2016</b> ,		1
149	Elastic orthorhombic anisotropic parameter inversion: An analysis of parameterization. <i>Geophysics</i> , <b>2016</b> , 81, C279-C293	3.1	46

148	The scattering potential of partial derivative wavefields in 3-D elastic orthorhombic media: an inversion prospective. <i>Geophysical Journal International</i> , <b>2016</b> , 206, 1740-1760	2.6	18
147	Common-image gathers using the excitation amplitude imaging condition. <i>Geophysics</i> , <b>2016</b> , 81, S261-S269		12
146	A new parameterization for waveform inversion in acoustic orthorhombic media. <i>Geophysics</i> , <b>2016</b> , 81, R157-R171	3.1	21
145	Full-waveform inversion with reflected waves for 2D VTI media <b>2016</b> ,		4
144	3D elastic-orthorhombic anisotropic full-waveform inversion: Application to field OBC data <b>2016</b> ,		5
143	Estimation of the anisotropy parameters from imaging moveout of diving wave in a factorized anisotropic medium. <i>Geophysics</i> , <b>2016</b> , 81, C139-C150	3.1	8
142	Traveltime approximations and parameter estimation for orthorhombic media. <i>Geophysics</i> , <b>2016</b> , 81, C127-C137	3.1	18
141	Waveform inversion for acoustic VTI media in frequency domain <b>2016</b> ,		13
140	Main components of full-waveform inversion for reservoir characterization. <i>First Break</i> , <b>2016</b> , 34,	0.5	4
139	Full-model wavenumber inversion: An emphasis on the appropriate wavenumber continuation. <i>Geophysics</i> , <b>2016</b> , 81, R89-R98	3.1	40
138	Simulating propagation of decoupled elastic waves using low-rank approximate mixed-domain integral operators for anisotropic media. <i>Geophysics</i> , <b>2016</b> , 81, T63-T77	3.1	26
137	Analysis of RTM extended images for VTI media. <i>Geophysics</i> , <b>2016</b> , 81, S139-S150	3.1	9
136	The natural combination of full and image-based waveform inversion. <i>Geophysical Prospecting</i> , <b>2016</b> , 64, 19-30	1.9	42
135	Application of perturbation theory to a P-wave eikonal equation in orthorhombic media. <i>Geophysics</i> , <b>2016</b> , 81, C309-C317	3.1	20
134	Full-waveform inversion using the excitation representation of the source wavefield <b>2016</b> ,		2
133	Practical waveform inversion in anisotropic media: The natural combination of the data and image objectives <b>2016</b> ,		1
132	A recipe for practical full-waveform inversion in orthorhombic anisotropy. <i>The Leading Edge</i> , <b>2016</b> , 35, 1076-1083	1	7
131	A nonlinear approach of elastic reflection waveform inversion <b>2016</b> ,		2

130	The optimized gradient method for full waveform inversion and its spectral implementation. <i>Geophysical Journal International</i> , <b>2016</b> , 205, 1823-1831	2.6	17
129	Effective ellipsoidal models for wavefield extrapolation in tilted orthorhombic media. <i>Studia Geophysica Et Geodaetica</i> , <b>2016</b> , 60, 349-369	0.7	3
128	Scattering angle-based filtering via extension in velocity <b>2016</b> ,		12
127	The offset-midpoint traveltimes pyramid of P-waves in homogeneous orthorhombic media. <i>Geophysics</i> , <b>2016</b> , 81, C151-C162	3.1	15
126	Multiscattering inversion for low-model wavenumbers. <i>Geophysics</i> , <b>2016</b> , 81, R417-R428	3.1	37
125	Research Note: Insights into the data dependency on anisotropy: an inversion prospective. <i>Geophysical Prospecting</i> , <b>2016</b> , 64, 505-513	1.9	35
124	Anisotropy signature in reverse-time migration extended images. <i>Geophysical Prospecting</i> , <b>2015</b> , 63, 271-282	1.9	5
123	Unwrapped phase inversion with an exponential damping. <i>Geophysics</i> , <b>2015</b> , 80, R251-R264	3.1	41
122	Conditioning the full-waveform inversion gradient to welcome anisotropy. <i>Geophysics</i> , <b>2015</b> , 80, R111-R122	3.1	20
121	Efficient traveltimes solutions of the acoustic TI eikonal equation. <i>Journal of Computational Physics</i> , <b>2015</b> , 282, 62-76	4.1	18
120	Prestack exploding reflector modelling and migration for anisotropic media. <i>Geophysical Prospecting</i> , <b>2015</b> , 63, 2-10	1.9	2
119	Full waveform inversion using oriented time-domain imaging method <b>2015</b> ,		1
118	Full waveform inversion based on scattering angle enrichment with application to real dataset <b>2015</b> ,		3
117	The offset-midpoint traveltimes pyramid in 3D transversely isotropic media with a horizontal symmetry axis. <i>Geophysics</i> , <b>2015</b> , 80, T51-T62	3.1	3
116	Source-Receiver two-way wave extrapolation for prestack exploding-reflector modelling and migration. <i>Geophysical Prospecting</i> , <b>2015</b> , 63, 23-34	1.9	3
115	An efficient wave extrapolation method for anisotropic media with tilt. <i>Geophysical Prospecting</i> , <b>2015</b> , 63, 1126-1141	1.9	10
114	Full model wavenumber inversion (FMWI) <b>2015</b> ,		2
113	The possibilities of least-squares migration of internally scattered seismic energy. <i>Geophysics</i> , <b>2015</b> , 80, S93-S101	3.1	12

112	Full-waveform inversion: Filling the gaps. <i>The Leading Edge</i> , <b>2015</b> , 34, 1106-1107		1
111	Simultaneous inversion of the background velocity and the perturbation in full-waveform inversion. <i>Geophysics</i> , <b>2015</b> , 80, R317-R329	3.1	79
110	Vertical elliptic operator for efficient wave propagation in TTI media <b>2015</b> ,		1
109	Multi-Parameter Estimation for Orthorhombic Media <b>2015</b> ,		1
108	Multi-scattering inversion for low model wavenumbers <b>2015</b> ,		2
107	Efficient scattering angle filtering for Full waveform inversion <b>2015</b> ,		5
106	Application of the unwrapped phase inversion to land data without source estimation <b>2015</b> ,		1
105	Research Note: Full-waveform inversion of the unwrapped phase of a model. <i>Geophysical Prospecting</i> , <b>2014</b> , 62, 397-403	1.9	7
104	Effective wavefield extrapolation in anisotropic media: accounting for resolvable anisotropy. <i>Geophysical Prospecting</i> , <b>2014</b> , 62, 1089-1099	1.9	7
103	Generalized internal multiple imaging (GIMI) using Feynman-like diagrams. <i>Geophysical Journal International</i> , <b>2014</b> , 197, 1582-1592	2.6	21
102	From tomography to full-waveform inversion with a single objective function. <i>Geophysics</i> , <b>2014</b> , 79, R55-R61	3.1	31
101	Traveltime sensitivity kernels for wave equation tomography using the unwrapped phase. <i>Geophysical Journal International</i> , <b>2014</b> , 197, 975-986	2.6	19
100	Effective anisotropy through traveltimes and amplitude matching <b>2014</b> ,		2
99	Analytical approximations of diving-wave imaging in constant-gradient medium. <i>Geophysics</i> , <b>2014</b> , 79, S131-S140	3.1	5
98	The possibilities of compressed-sensing-based Kirchhoff prestack migration. <i>Geophysics</i> , <b>2014</b> , 79, S113-S120	3.1	10
97	Mapping moveout approximations in TI media. <i>Geophysics</i> , <b>2014</b> , 79, C19-C26	3.1	7
96	Generalized internal multiple imaging. <i>Geophysics</i> , <b>2014</b> , 79, S207-S216	3.1	19
95	Simulating propagation of decomposed elastic waves using low-rank approximate mixed-domain integral operators for heterogeneous transversely isotropic media <b>2014</b> ,		1

94	The optimized expansion based low-rank method for wavefield extrapolation. <i>Geophysics</i> , <b>2014</b> , 79, T51-T60	3.6	33
93	Scattering-angle based filtering of the waveform inversion gradients. <i>Geophysical Journal International</i> , <b>2014</b> , 200, 363-373	2.6	109
92	Effective orthorhombic anisotropic models for wavefield extrapolation. <i>Geophysical Journal International</i> , <b>2014</b> , 198, 1653-1661	2.6	21
91	A recipe for practical full-waveform inversion in anisotropic media: An analytical parameter resolution study. <i>Geophysics</i> , <b>2014</b> , 79, R91-R101	3.1	147
90	Multi-parameters scanning in HTI media <b>2014</b> ,		2
89	The possibilities of linearized inversion of internally scattered seismic data <b>2014</b> ,		1
88	Monofrequency waveform acquisition and inversion: A new paradigm <b>2014</b> ,		3
87	Analysis of the multi-component pseudo-pure-mode qP-wave inversion in vertical transverse isotropic (VTI) media <b>2014</b> ,		2
86	An efficient wave extrapolation method for tilted orthorhombic media using effective ellipsoidal models <b>2014</b> ,		1
85	Traveltime approximations for inhomogeneous transversely isotropic media with a horizontal symmetry axis. <i>Geophysical Prospecting</i> , <b>2013</b> , 61, 495-503	1.9	14
84	A tilted transversely isotropic slowness surface approximation. <i>Geophysical Prospecting</i> , <b>2013</b> , 61, 568-573	3.9	10
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82	Multisource waveform inversion of marine streamer data using normalized wavefield. <i>Geophysics</i> , <b>2013</b> , 78, R197-R206	3.1	6
81	Acoustic anisotropic wavefields through perturbation theory. <i>Geophysics</i> , <b>2013</b> , 78, WC41-WC50	3.1	4
80	Two-point paraxial traveltime formula for inhomogeneous isotropic and anisotropic media: Tests of accuracy. <i>Geophysics</i> , <b>2013</b> , 78, WC65-WC80	3.1	9
79	Diffraction traveltime approximation for TI media with an inhomogeneous background. <i>Geophysics</i> , <b>2013</b> , 78, WC103-WC111	3.1	21
78	Wide-azimuth angle gathers for anisotropic wave-equation migration. <i>Geophysical Prospecting</i> , <b>2013</b> , 61, 75-91	1.9	9
77	Automatic traveltime picking using instantaneous traveltime. <i>Geophysics</i> , <b>2013</b> , 78, T53-T58	3.1	10

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75	An analysis of AVO inversion for postcritical offsets in HTI media. <i>Geophysics</i> , <b>2013</b> , 78, N11-N20	3.1	5
74	Frequency-domain waveform inversion using the phase derivative. <i>Geophysical Journal International</i> , <b>2013</b> , 195, 1904-1916	2.6	33
73	Residual extrapolation operators for efficient wavefield construction. <i>Geophysical Journal International</i> , <b>2013</b> , 193, 1027-1034	2.6	18
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71	Mapping of moveout in tilted transversely isotropic media. <i>Geophysical Prospecting</i> , <b>2013</b> , 61, 1171-1177	1.9	3
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69	Wavefield extrapolation in pseudodepth domain. <i>Geophysics</i> , <b>2013</b> , 78, S81-S91	3.1	6
68	Anisotropic parameter inversion in VTI media using diffraction data <b>2013</b> ,		3
67	Finite frequency traveltimes sensitivity kernels for acoustic anisotropic media: Angle dependent bananas <b>2013</b> ,		3
66	Full-waveform inversion: From near surface to deep. <i>The Leading Edge</i> , <b>2013</b> , 32, 1394-1398	1	
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63	A new traveltimes approximation for TI media. <i>Geophysics</i> , <b>2012</b> , 77, C37-C42	3.1	32
62	Prestack traveltimes approximations. <i>Geophysics</i> , <b>2012</b> , 77, U31-U37	3.1	3
61	Anisotropy signature in extended images from reverse-time migration <b>2012</b> ,		3
60	Prestack exploding reflector modeling and migration for anisotropic media: a parameter estimation tool <b>2012</b> ,		1
59	Prestack traveltimes for dip-constrained TI media <b>2012</b> ,		1

58	A linearized dispersion relation for orthorhombic pseudo-acoustic modeling <b>2012</b> ,		2
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56	Frequency-domain waveform inversion using the unwrapped phase <b>2011</b> ,		14
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45	Wide-azimuth angle-domain imaging for anisotropic reverse-time migration <b>2011</b> ,		2
44	A stable implementation of the prestack exploding reflector modeling and migration <b>2011</b> ,		1
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25	The offset-midpoint travelt ime pyramid in transversely isotropic media. <i>Geophysics</i> , <b>2000</b> , 65, 1316-1325	3.1	49
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21	Building a 3-D anisotropic model: Its implication to traveltime calculation and velocity analysis <b>2000</b>		7
20	Case study of estimation of anisotropy. <i>The Leading Edge</i> , <b>1999</b> , 18, 588-593	1	20
19	Reflection moveout inversion in azimuthally anisotropic media: accuracy, limitations and acquisition. <i>Geophysical Prospecting</i> , <b>1999</b> , 47, 735-756	1.9	4
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13	Transformation to zero offset in transversely isotropic media. <i>Geophysics</i> , <b>1996</b> , 61, 947-963	3.1	12
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11	Efficient synthetic-seismogram generation in transversely isotropic, inhomogeneous media. <i>Geophysics</i> , <b>1995</b> , 60, 1139-1150	3.1	20
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