

Sergey B Fomel

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.

323
papers

8,624
citations

49
h-index

82
g-index

375
ext. papers

11,198
ext. citations

2.7
avg, IF

7.05
L-index

#	Paper	IF	Citations
323	Machine Learning for Fast and Reliable Source-Location Estimation in Earthquake Early Warning. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2022 , 19, 1-5	4.1	3
322	Time-lapse seismic data inversion for estimating reservoir parameters using deep learning. <i>Interpretation</i> , 2022 , 10, T167-T179	1.4	1
321	Simultaneous reconstruction and denoising of extremely sparse 5D seismic data by a simple and effective method. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021 , 1-1	8.1	
320	A Probabilistic Approach to Seismic Diffraction Imaging. <i>Lithosphere</i> , 2021 , 2021,	2.7	2
319	The Slope-Attribute-Regularized High-Resolution Prestack Seismic Inversion. <i>Surveys in Geophysics</i> , 2021 , 42, 625-671	7.6	7
318	SCALODEEP: A Highly Generalized Deep Learning Framework for Real-Time Earthquake Detection. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021473	3.6	12
317	A Compact Program for 3D Passive Seismic Source-Location Imaging. <i>Seismological Research Letters</i> , 2021 , 92, 3187-3201	3	5
316	Uncertainty and interpretability analysis of encoder-decoder architecture for channel detection. <i>Geophysics</i> , 2021 , 86, O49-O58	3.1	5
315	Seismic data interpolation using deep learning with generative adversarial networks. <i>Geophysical Prospecting</i> , 2021 , 69, 307-326	1.9	21
314	Wave-equation time migration. <i>Geophysics</i> , 2021 , 86, S103-S111	3.1	
313	Interactively tracking seismic geobodies with a deep-learning flood-filling network. <i>Geophysics</i> , 2021 , 86, A1-A5	3.1	4
312	5D dealiased seismic data interpolation using nonstationary prediction-error filter. <i>Geophysics</i> , 2021 , 86, V419-V429	3.1	2
311	Nonstationary local signal-and-noise orthogonalization. <i>Geophysics</i> , 2021 , 86, V409-V418	3.1	5
310	A Fast Algorithm for Elastic Wave-Mode Separation Using Deep Learning With Generative Adversarial Networks (GANs). <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021123	3.6	3
309	Improving the resolution of migrated images by approximating the inverse Hessian using deep learning. <i>Geophysics</i> , 2020 , 85, WA173-WA183	3.1	19
308	Seismic ground-roll noise attenuation using deep learning. <i>Geophysical Prospecting</i> , 2020 , 68, 2064-2077	1.9	23
307	Deep learning parameterization for geophysical inverse problems 2020 ,		5

306	Least-squares diffraction imaging using shaping regularization by anisotropic smoothing. <i>Geophysics</i> , 2020 , 85, S313-S325	3.1	6
305	Waveform embedding: Automatic horizon picking with unsupervised deep learning. <i>Geophysics</i> , 2020 , 85, WA67-WA76	3.1	17
304	Time-lapse seismic data inversion for estimating reservoir parameters using deep learning 2020 ,		2
303	Separating primaries and multiples using hyperbolic Radon transform with deep learning 2020 ,		6
302	Uncertainty estimation using Bayesian convolutional neural network for automatic channel detection 2020 ,		5
301	Passive seismic signal denoising using convolutional neural network 2020 ,		1
300	Building realistic structure models to train convolutional neural networks for seismic structural interpretation. <i>Geophysics</i> , 2020 , 85, WA27-WA39	3.1	62
299	Relative time seislet transform. <i>Geophysics</i> , 2020 , 85, V223-V232	3.1	5
298	Deep learning for relative geologic time and seismic horizons. <i>Geophysics</i> , 2020 , 85, WA87-WA100	3.1	19
297	Probabilistic moveout analysis by time warping. <i>Geophysics</i> , 2020 , 85, U1-U20	3.1	3
296	SaltSeg: Automatic 3D salt segmentation using a deep convolutional neural network. <i>Interpretation</i> , 2019 , 7, SE113-SE122	1.4	56
295	Automatic channel detection using deep learning. <i>Interpretation</i> , 2019 , 7, SE43-SE50	1.4	46
294	Pattern-guided dip estimation with plane-wave destruction filters. <i>Geophysical Prospecting</i> , 2019 , 67, 1798-1810	1.9	4
293	Least-squares path-summation diffraction imaging using sparsity constraints. <i>Geophysics</i> , 2019 , 84, S187-S200	3.2	13
292	Effects of lateral heterogeneity on time-domain processing parameters. <i>Geophysical Journal International</i> , 2019 , 219, 1181-1201	2.6	1
291	FaultNet3D: Predicting Fault Probabilities, Strikes, and Dips With a Single Convolutional Neural Network. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019 , 57, 9138-9155	8.1	58
290	Multitask learning for local seismic image processing: fault detection, structure-oriented smoothing with edge-preserving, and seismic normal estimation by using a single convolutional neural network. <i>Geophysical Journal International</i> , 2019 , 219, 2097-2109	2.6	33
289	Relative geologic time estimation using a deep convolutional neural network 2019 ,		9

288	FaultSeg3D: Using synthetic data sets to train an end-to-end convolutional neural network for 3D seismic fault segmentation. <i>Geophysics</i> , 2019 , 84, IM35-IM45	3.1	251
287	Elastic wave-mode separation in heterogeneous anisotropic media using deep learning 2019 ,		7
286	Seismic data interpolation using CycleGAN 2019 ,		32
285	Building realistic structure models to train convolutional neural networks for seismic structural interpretation 2019 ,		1
284	Overcoming numerical dispersion of finite-difference wave extrapolation using deep learning 2019 ,		8
283	Deep learning for local seismic image processing: Fault detection, structure-oriented smoothing with edge-preserving, and slope estimation by using a single convolutional neural network 2019 ,		7
282	Estimating the inverse Hessian for amplitude correction of migrated images using deep learning 2019 ,		5
281	Missing log data interpolation and semiautomatic seismic well ties using data matching techniques. <i>Interpretation</i> , 2019 , 7, T347-T361	1.4	12
280	Generalized velocity approximation. <i>Geophysics</i> , 2019 , 84, C27-C40	3.1	17
279	Predictive painting across faults. <i>Interpretation</i> , 2018 , 6, T449-T455	1.4	9
278	Fast time-to-depth conversion and interval velocity estimation in the case of weak lateral variations. <i>Geophysics</i> , 2018 , 83, S227-S235	3.1	8
277	Fast salt boundary interpretation with optimal path picking. <i>Geophysics</i> , 2018 , 83, O45-O53	3.1	15
276	Matching and merging high-resolution and legacy seismic images. <i>Geophysics</i> , 2018 , 83, V115-V122	3.1	7
275	Subsurface Exploration: Recent Advances in Geo-Signal Processing, Interpretation, and Learning [From the Guest Editors]. <i>IEEE Signal Processing Magazine</i> , 2018 , 35, 16-18	9.4	1
274	Least-squares horizons with local slopes and multigrid correlations. <i>Geophysics</i> , 2018 , 83, IM29-IM40	3.1	37
273	Data-driven time-frequency analysis of seismic data using non-stationary Prony method. <i>Geophysical Prospecting</i> , 2018 , 66, 85-97	1.9	18
272	Accelerating full-waveform inversion with attenuation compensation. <i>Geophysics</i> , 2018 , 83, A13-A20	3.1	29
271	EMD-seislet transform. <i>Geophysics</i> , 2018 , 83, A27-A32	3.1	59

270	Increasing resolution of reverse-time migration using time-shift gathers. <i>Geophysical Prospecting</i> , 2018 , 66, 726-735	1.9	1
269	Automatic fault interpretation with optimal surface voting. <i>Geophysics</i> , 2018 , 83, O67-O82	3.1	39
268	Incremental correlation of multiple well logs following geologically optimal neighbors. <i>Interpretation</i> , 2018 , 6, T713-T722	1.4	5
267	Automatic channel detection using deep learning 2018 ,		16
266	Missing well-log data prediction using Bayesian approach in the relative-geologic time domain 2018 ,		4
265	Least-squares diffraction imaging using shaping regularization by anisotropic smoothing 2018 ,		2
264	Improving migration resolution by approximating the least-squares Hessian using nonstationary amplitude and frequency matching 2018 ,		2
263	Missing Well Log Estimation by Multiple Well-log Correlation 2018 ,		3
262	Automatic fault interpretation using optimal surface voting 2018 ,		3
261	Solving fractional Laplacian viscoelastic wave equations using domain decomposition 2018 ,		5
260	A finite-element method for blind deconvolution with dynamic frequency wavelets 2018 ,		1
259	Convolutional neural networks for fault interpretation in seismic images 2018 ,		55
258	Least-squares seismic horizons with local slopes and multigrid correlations 2018 ,		1
257	Automatic salt-body classification using deep-convolutional neural network 2018 ,		56
256	Diffraction imaging and time-migration velocity analysis using oriented velocity continuation. <i>Geophysics</i> , 2017 , 82, U25-U35	3.1	28
255	Full-waveform inversion using seislet regularization. <i>Geophysics</i> , 2017 , 82, A43-A49	3.1	24
254	Creating detailed subsurface models using predictive image-guided well-log interpolation. <i>Interpretation</i> , 2017 , 5, T279-T285	1.4	9
253	Elastic wave-vector decomposition in heterogeneous anisotropic media. <i>Geophysical Prospecting</i> , 2017 , 65, 1231-1245	1.9	16

252	Analytical path-summation imaging of seismic diffractions. <i>Geophysics</i> , 2017 , 82, S51-S59	3.1	12
251	Well-log interpolation guided by geologic distance 2017 ,		3
250	Balancing local frequency content in seismic data using nonstationary smoothing 2017 ,		2
249	Effects of lateral heterogeneity on reflection traveltimes 2017 ,		1
248	Diffraction-based migration velocity analysis using double-path summation 2017 ,		2
247	Incremental correlation of multiple well logs following geologically optimal neighbors 2017 ,		3
246	Reproducible research: Geophysics papers of the future Introduction. <i>Geophysics</i> , 2017 , 82, WBi-WBii	3.1	4
245	Plane-wave Sobel attribute for discontinuity enhancement in seismic images. <i>Geophysics</i> , 2017 , 82, WB63-WB69	3.1	4
244	Finding an optimal well-log correlation sequence using coherence-weighted graphs 2017 ,		5
243	3D generalized nonhyperboloidal moveout approximation. <i>Geophysics</i> , 2017 , 82, C49-C59	3.1	24
242	Time-variant wavelet extraction with a local-attribute-based time-frequency decomposition for seismic inversion. <i>Interpretation</i> , 2017 , 5, SC9-SC16	1.4	10
241	The modified generalized moveout approximation: a new parameter selection. <i>Geophysical Prospecting</i> , 2017 , 65, 687-695	1.9	11
240	Fast salt-boundary interpretation with optimal path picking 2017 ,		2
239	Recursive integral time extrapolation of elastic waves using low-rank symbol approximation. <i>Geophysical Journal International</i> , 2017 , 211, 1478-1493	2.6	6
238	Unconventional Reservoir Characterization Using Azimuthal Seismic Diffraction Imaging 2017 ,		6
237	Enhancing seismic-diffraction images using semblance-weighted least-squares migration 2017 ,		4
236	Predictive painting across faults 2017 ,		2
235	Diffraction imaging of high-resolution 3D P-cable data from the Gulf of Mexico using azimuthal plane-wave destruction. <i>First Break</i> , 2017 , 35,	0.5	14

234	A Bayesian approach to estimate uncertainty for full-waveform inversion using a priori information from depth migration. <i>Geophysics</i> , 2016 , 81, R307-R323	3.1	59
233	Q-compensated full-waveform inversion using constant-Q wave equation 2016 ,		11
232	Q-compensated least-squares reverse time migration using low-rank one-step wave extrapolation. <i>Geophysics</i> , 2016 , 81, S271-S279	3.1	65
231	Data-driven time-frequency analysis of seismic data using regularized nonstationary autoregression 2016 ,		2
230	Theory of interval travelttime parameter estimation in layered anisotropic media. <i>Geophysics</i> , 2016 , 81, C253-C263	3.1	11
229	Seismic imaging of incomplete data and simultaneous-source data using least-squares reverse time migration with shaping regularization. <i>Geophysics</i> , 2016 , 81, S11-S20	3.1	117
228	A comparison of diffraction imaging to incoherence and curvature. <i>The Leading Edge</i> , 2016 , 35, 86-89	1	16
227	Low-rank one-step wave extrapolation for reverse time migration. <i>Geophysics</i> , 2016 , 81, S39-S54	3.1	40
226	Seismic time-lapse image registration using amplitude-adjusted plane-wave destruction 2016 ,		4
225	High-resolution recursive stacking using plane-wave construction 2016 ,		1
224	Recursive integral time extrapolation of elastic waves using lowrank approximation 2016 ,		4
223	Mapping of moveout attributes using local slopes. <i>Geophysical Prospecting</i> , 2016 , 64, 31-37	1.9	12
222	Microseismic source localization using time-domain path-integral migration 2016 ,		3
221	Full-waveform inversion of passive seismic data for sources and velocities 2016 ,		25
220	Migration-based passive-source imaging for continuous data 2016 ,		5
219	5. Diffraction Imaging 2016 , 655-800		
218	Diffraction imaging using azimuthal plane-wave destruction 2016 ,		8
217	Least-squares path-integral diffraction imaging using sparsity constraints 2016 ,		4

216	Streaming prediction-error filters 2016 ,			10
215	A comparison of anisotropic parameterizations for Ti and orthorhombic media and their sensitivity with respect to qP velocities 2016 ,			1
214	Fast scattered data gridding 2016 ,			2
213	Structure-oriented plane-wave Sobel filter for edge detection in seismic images 2016 ,			5
212	1. Overview 2016 , 1-62			
211	Full-waveform inversion using smoothing kernels 2016 ,			11
210	Double-sparsity dictionary for seismic noise attenuation. <i>Geophysics</i> , 2016 , 81, V103-V116	3.1		135
209	Building good starting models for full-waveform inversion using adaptive matching filtering misfit. <i>Geophysics</i> , 2016 , 81, U61-U72	3.1		41
208	Carbonate reservoir characterization using seismic diffraction imaging. <i>Interpretation</i> , 2015 , 3, SF21-SF30.4			23
207	Seislet-based morphological component analysis using scale-dependent exponential shrinkage. <i>Journal of Applied Geophysics</i> , 2015 , 118, 66-74	1.7		7
206	Seismic diffraction interpretation at Piceance Creek. <i>Interpretation</i> , 2015 , 3, SF1-SF14	1.4		22
205	A robust approach to time-to-depth conversion and interval velocity estimation from time migration in the presence of lateral velocity variations. <i>Geophysical Prospecting</i> , 2015 , 63, 315-337	1.9		14
204	A fast algorithm for 3D azimuthally anisotropic velocity scan. <i>Geophysical Prospecting</i> , 2015 , 63, 368-377	1.9		4
203	Signal and noise separation in prestack seismic data using velocity-dependent seislet transform. <i>Geophysics</i> , 2015 , 80, WD117-WD128	3.1		38
202	Viscoacoustic modeling and imaging using low-rank approximation. <i>Geophysics</i> , 2015 , 80, A103-A108	3.1		68
201	Predictive coherence. <i>Interpretation</i> , 2015 , 3, SAE1-SAE7	1.4		15
200	Elastic wave-vector decomposition in orthorhombic media 2015 ,			4
199	Weighted least square based lowrank finite difference for seismic wave extrapolation 2015 ,			1

198	Preconditioning least-squares RTM in viscoacoustic media by Q-compensated RTM 2015 ,		21
197	Investigating the possibility of locating microseismic sources using distributed sensor networks 2015 ,		19
196	Seismic data interpolation using plane-wave shaping regularization 2015 ,		9
195	An efficient workflow for path-integral imaging of seismic diffractions 2015 ,		8
194	Stratigraphic coordinates: a coordinate system tailored to seismic interpretation. <i>Geophysical Prospecting</i> , 2015 , 63, 1246-1255	1.9	11
193	Source-receiver two-way wave extrapolation for prestack exploding-reflector modelling and migration. <i>Geophysical Prospecting</i> , 2015 , 63, 23-34	1.9	3
192	Image guided well log interpolation using predictive painting 2015 ,		10
191	On anelliptic approximations for qP velocities in transversely isotropic and orthorhombic media. <i>Geophysics</i> , 2015 , 80, C89-C105	3.1	43
190	Reproducible Research as a Community Effort: Lessons from the Madagascar Project. <i>Computing in Science and Engineering</i> , 2015 , 17, 20-26	1.5	5
189	EMD-seislet transform 2015 ,		16
188	Random noise attenuation using local signal-and-noise orthogonalization. <i>Geophysics</i> , 2015 , 80, WD1-WD9	3.1	215
187	3D generalized nonhyperboloidal moveout approximation 2015 ,		3
186	Improving resolution of NMO stack using shaping regularization 2015 ,		3
185	Random Noise Attenuation Using Local Signal and Noise Orthogonalization 2015 ,		2
184	Automatic approaches for seismic to well tying. <i>Interpretation</i> , 2014 , 2, SD9-SD17	1.4	19
183	Structural uncertainty of time-migrated seismic images. <i>Journal of Applied Geophysics</i> , 2014 , 101, 27-30	1.7	24
182	Viscoacoustic modeling and imaging using low-rank approximation 2014 ,		10
181	Transforming prestack seismic data by Gardner continuation 2014 ,		2

180	Least-squares reverse-time migration using one-step two-way wave extrapolation by non-stationary phase shift 2014 ,		6
179	Recent advances in time-domain seismic imaging 2014 ,		9
178	Diffraction imaging and velocity analysis using oriented velocity continuation 2014 ,		3
177	Local skewness attribute as a seismic phase detector. <i>Interpretation</i> , 2014 , 2, SA49-SA56	1.4	11
176	Imaging incomplete data and simultaneous-source data using least-squares reverse-time migration with shaping regularization 2014 ,		14
175	Iterative deblending of simultaneous-source seismic data using seislet-domain shaping regularization. <i>Geophysics</i> , 2014 , 79, V179-V189	3.1	193
174	Fast algorithms for elastic-wave-mode separation and vector decomposition using low-rank approximation for anisotropic media. <i>Geophysics</i> , 2014 , 79, C97-C110	3.1	74
173	Lowrank seismic-wave extrapolation on a staggered grid. <i>Geophysics</i> , 2014 , 79, T157-T168	3.1	30
172	Two-point seismic ray tracing in layered media using bending 2014 ,		5
171	Time-lapse pre-stack seismic data registration and inversion for CO2 sequestration study at Cranfield. <i>Geophysical Prospecting</i> , 2014 , 62, 1028-1039	1.9	6
170	Random noise attenuation using local similarity 2014 ,		5
169	Modified anelliptic approximations for qP velocities in transversely isotropic media 2014 ,		3
168	Anelliptic approximations for qP velocities in orthorhombic media 2014 ,		5
167	Non-hyperbolic common reflection surface. <i>Geophysical Prospecting</i> , 2013 , 61, 21-27	1.9	41
166	Seismic wave extrapolation using lowrank symbol approximation. <i>Geophysical Prospecting</i> , 2013 , 61, 526-536	1.9	143
165	Kirchhoff migration using eikonal-based computation of traveltimes source derivatives. <i>Geophysics</i> , 2013 , 78, S211-S219	3.1	8
164	A fast butterfly algorithm for generalized Radon transforms. <i>Geophysics</i> , 2013 , 78, U41-U51	3.1	27
163	Fast algorithms for elastic-wave-mode separation and vector decomposition using low-rank approximation for anisotropic media 2013 ,		3

162	Seismic data analysis using local time-frequency decomposition. <i>Geophysical Prospecting</i> , 2013 , 61, 516-525		54
161	Comparison of seismic diffraction imaging techniques: Plane wave destruction versus apex destruction 2013 ,		11
160	Automatic travelttime picking using instantaneous travelttime. <i>Geophysics</i> , 2013 , 78, T53-T58	3.1	10
159	Automated spectral recomposition with application in stratigraphic interpretation. <i>Interpretation</i> , 2013 , 1, SA109-SA116	1.4	7
158	Accelerated plane-wave destruction. <i>Geophysics</i> , 2013 , 78, V1-V9	3.1	32
157	Omnidirectional plane-wave destruction. <i>Geophysics</i> , 2013 , 78, V171-V179	3.1	18
156	First-break travelttime tomography with the double-square-root eikonal equation. <i>Geophysics</i> , 2013 , 78, U89-U101	3.1	19
155	Lowrank finite-differences and lowrank Fourier finite-differences for seismic wave extrapolation in the acoustic approximation. <i>Geophysical Journal International</i> , 2013 , 193, 960-969	2.6	71
154	Predictive coherency 2013 ,		2
153	Selecting an optimal aperture in Kirchhoff migration using dip-angle images. <i>Geophysics</i> , 2013 , 78, S243-S254	3.1	19
152	Seismic data decomposition into spectral components using regularized nonstationary autoregression. <i>Geophysics</i> , 2013 , 78, O69-O76	3.1	56
151	Time-lapse seismic data registration and inversion for CO2 sequestration study at Cranfield. <i>Geophysics</i> , 2013 , 78, B329-B338	3.1	16
150	A robust approach to time-to-depth conversion in the presence of lateral-velocity variations 2013 ,		4
149	Iterative deblending of simultaneous-source seismic data using shaping regularization 2013 ,		2
148	Low-rank one-step wave extrapolation 2013 ,		12
147	Seismic wave extrapolation on a staggered grid using low-rank decomposition and low-rank finite differences 2013 ,		2
146	Seismic diffraction imaging, one migration dip at a time 2013 ,		2
145	A fast algorithm for 3D azimuthally anisotropic velocity scan 2013 ,		1

144	Wave-equation time migration 2013 ,			5
143	Seismic modeling using the frozen Gaussian approximation 2013 ,			4
142	Computing volumetric-curvature attributes using predictive painting 2013 ,			1
141	Phase-space computation of multi-arrival traveltimes: Part II Implementation and application to angle-domain imaging 2012 ,			1
140	Shifted hyperbola moveout approximation revisited. <i>Geophysical Prospecting</i> , 2012 , 60, 395-399	1.9		5
139	A fast butterfly algorithm for the hyperbolic Radon transform 2012 ,			1
138	Separation and imaging of seismic diffractions using migrated dip-angle gathers. <i>Geophysics</i> , 2012 , 77, S131-S143	3.1		126
137	Generalized nonelliptic moveout approximation in \mathbb{P} domain. <i>Geophysics</i> , 2012 , 77, U23-U30	3.1		18
136	Constrained simultaneous automatic picking for VVAZ analysis 2012 ,			2
135	Optimal migration aperture for conflicting dips 2012 ,			3
134	Multiple suppression in the t-x-p domain 2012 ,			3
133	Time-frequency analysis of seismic data using local attributes. <i>Geophysics</i> , 2011 , 76, P23-P34	3.1		59
132	Seismic Imaging. <i>International Journal of Geophysics</i> , 2011 , 2011, 1-2		2	
131	Velocity-independent \mathbb{P} moveout in a horizontally layered VTI medium. <i>Geophysics</i> , 2011 , 76, U45-U57	3.1		20
130	Seismic data interpolation beyond aliasing using regularized nonstationary autoregression. <i>Geophysics</i> , 2011 , 76, V69-V77	3.1		47
129	Fourier finite-difference wave propagation. <i>Geophysics</i> , 2011 , 76, T123-T129	3.1		40
128	Diffraction velocity analysis by path-integral seismic imaging 2011 ,			9
127	Gaussian beam decomposition for seismic migration 2011 ,			3

126	Stacking angle-domain common-image gathers for normalization of illumination. <i>Geophysical Prospecting</i> , 2011 , 59, 244-255	1.9	9
125	Angle gathers in wave-equation imaging for transversely isotropic media. <i>Geophysical Prospecting</i> , 2011 , 59, 422-431	1.9	7
124	Theory of 3-D angle gathers in wave-equation seismic imaging. <i>Journal of Petroleum Exploration and Production</i> , 2011 , 1, 11-16	2.2	11
123	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
122	Automatic traveltimes picking using local time-frequency maps 2011 ,		1
121	Improving wave-equation fidelity of Gaussian beams by solving the complex eikonal equation 2011 ,		6
120	Azimuthally Anisotropic 3D Velocity Continuation. <i>International Journal of Geophysics</i> , 2011 , 2011, 1-8	2	16
119	Lowrank finite-differences for wave extrapolation 2011 ,		5
118	A stable implementation of the prestack exploding reflector modeling and migration 2011 ,		1
117	Stratigraphic coordinate system 2011 ,		2
116	3-D Forward Seismic Model of an Outcrop-Based Geocellular Model 2011 , 87-106		4
115	Nonlinear structure-enhancing filtering using plane-wave prediction*. <i>Geophysical Prospecting</i> , 2010 , 58, 415-427	1.9	64
114	Generalized nonhyperbolic moveout approximation. <i>Geophysics</i> , 2010 , 75, U9-U18	3.1	98
113	Local similarity with the envelope as a seismic phase detector 2010 ,		7
112	Fourier finite-difference wave propagation 2010 ,		5
111	OC-seislet: Seislet transform construction with differential offset continuation. <i>Geophysics</i> , 2010 , 75, WB235-WB245	3.1	31
110	Enhancing seismic data resolution using the prestack blueing technique: An example from the Ketzin CO ₂ injection site, Germany. <i>Geophysics</i> , 2010 , 75, V101-V110	3.1	11
109	Seislet transform and seislet frame. <i>Geophysics</i> , 2010 , 75, V25-V38	3.1	242

108	Nonstationary phase estimation: A tool for seismic interpretation?. <i>The Leading Edge</i> , 2010 , 29, 1020-1026		11
107	Azimuthally anisotropic 3D velocity continuation 2010 ,		1
106	Predictive painting of 3D seismic volumes. <i>Geophysics</i> , 2010 , 75, A25-A30	3.1	119
105	Seismic wave extrapolation using lowrank symbol approximation 2010 ,		26
104	An eikonal-based formulation for travelttime perturbation with respect to the source location. <i>Geophysics</i> , 2010 , 75, T175-T183	3.1	14
103	Seismic data sampling and wavefield representation [Introduction]. <i>Geophysics</i> , 2010 , 75, WB1-WB2	3.1	6
102	Source-receiver two-way wave extrapolation for prestack exploding-reflector modeling and migration 2010 ,		4
101	Fractures Detection Using Multi-Azimuth Diffractions Focusing Measure: Is it Feasible? 2010 ,		10
100	20. Signal Processing 2010 , 453-493		
99	Monitoring CO2 response on surface seismic data; a rock physics and seismic modeling feasibility study at the CO2 sequestration site, Ketzin, Germany. <i>Journal of Applied Geophysics</i> , 2010 , 71, 109-124	1.7	57
98	Trace interpolation beyond aliasing using regularized nonstationary autoregression 2010 ,		3
97	VTI interval velocities by predictive painting in \mathbb{P} domain 2010 ,		1
96	Fractal heterogeneities in sonic logs and low-frequency scattering attenuation. <i>Geophysics</i> , 2009 , 74, WA77-WA92	3.1	16
95	Stacking seismic data using local correlation. <i>Geophysics</i> , 2009 , 74, V43-V48	3.1	95
94	Structure-enhancing nonlinear filtering of seismic images 2009 ,		1
93	Adaptive multiple subtraction using regularized nonstationary regression. <i>Geophysics</i> , 2009 , 74, V25-V33	3.1	83
92	Time-lapse image registration using the local similarity attribute. <i>Geophysics</i> , 2009 , 74, A7-A11	3.1	47
91	. <i>Computing in Science and Engineering</i> , 2009 , 11, 5-7	1.5	75

90	Velocity analysis using AB semblance. <i>Geophysical Prospecting</i> , 2009 , 57, 311-321	1.9	87
89	Fast sweeping method for the factored eikonal equation. <i>Journal of Computational Physics</i> , 2009 , 228, 6440-6455	4.1	90
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