

Sergey B Fomel

List of Publications by Citations

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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

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82
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375
ext. papers

11,198
ext. citations

2.7
avg, IF

7.05
L-index

#	Paper	IF	Citations
323	Applications of plane-wave destruction filters. <i>Geophysics</i> , 2002 , 67, 1946-1960	3.1	469
322	Angle-domain common-image gathers by wavefield continuation methods. <i>Geophysics</i> , 2003 , 68, 1065-1074	3.1	353
321	Shaping regularization in geophysical-estimation problems. <i>Geophysics</i> , 2007 , 72, R29-R36	3.1	252
320	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
319	Seislet transform and seislet frame. <i>Geophysics</i> , 2010 , 75, V25-V38	3.1	242
318	Local seismic attributes. <i>Geophysics</i> , 2007 , 72, A29-A33	3.1	236
317	Time-shift imaging condition in seismic migration. <i>Geophysics</i> , 2006 , 71, S209-S217	3.1	218
316	Random noise attenuation using local signal-and-noise orthogonalization. <i>Geophysics</i> , 2015 , 80, WD1-WD9	3.1	215
315	Poststack velocity analysis by separation and imaging of seismic diffractions. <i>Geophysics</i> , 2007 , 72, U89-U94	3.1	211
314	Iterative deblending of simultaneous-source seismic data using seislet-domain shaping regularization. <i>Geophysics</i> , 2014 , 79, V179-V189	3.1	193
313	Seismic wave extrapolation using lowrank symbol approximation. <i>Geophysical Prospecting</i> , 2013 , 61, 526-536	3.1	143
312	Double-sparsity dictionary for seismic noise attenuation. <i>Geophysics</i> , 2016 , 81, V103-V116	3.1	135
311	Separation and imaging of seismic diffractions using migrated dip-angle gathers. <i>Geophysics</i> , 2012 , 77, S131-S143	3.1	126
310	Predictive painting of 3D seismic volumes. <i>Geophysics</i> , 2010 , 75, A25-A30	3.1	119
309	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
308	On anelliptic approximations for qP velocities in VTI media. <i>Geophysical Prospecting</i> , 2004 , 52, 247-259	1.9	102
307	Seismic reflection data interpolation with differential offset and shot continuation. <i>Geophysics</i> , 2003 , 68, 733-744	3.1	99

306	Generalized nonhyperbolic moveout approximation. <i>Geophysics</i> , 2010 , 75, U9-U18	3.1	98
305	Stacking seismic data using local correlation. <i>Geophysics</i> , 2009 , 74, V43-V48	3.1	95
304	Fast sweeping method for the factored eikonal equation. <i>Journal of Computational Physics</i> , 2009 , 228, 6440-6455	4.1	90
303	Velocity analysis using AB semblance. <i>Geophysical Prospecting</i> , 2009 , 57, 311-321	1.9	87
302	Adaptive multiple subtraction using regularized nonstationary regression. <i>Geophysics</i> , 2009 , 74, V25-V33,1	3.1	83
301	Velocity-independent time-domain seismic imaging using local event slopes. <i>Geophysics</i> , 2007 , 72, S139-S147	3.1	82
300	Flattening without picking. <i>Geophysics</i> , 2006 , 71, P13-P20	3.1	80
299	Separation, imaging, and velocity analysis of seismic diffractions using migrated dip-angle gathers 2008 ,		76
298	. <i>Computing in Science and Engineering</i> , 2009 , 11, 5-7	1.5	75
297	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
296	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
295	Viscoacoustic modeling and imaging using low-rank approximation. <i>Geophysics</i> , 2015 , 80, A103-A108	3.1	68
294	Time-migration velocity analysis by velocity continuation. <i>Geophysics</i> , 2003 , 68, 1662-1672	3.1	68
293	Separation and imaging of seismic diffractions using plane-wave decomposition 2006 ,		66
292	Azimuth moveout for 3-D prestack imaging. <i>Geophysics</i> , 1998 , 63, 574-588	3.1	66
291	Q-compensated least-squares reverse time migration using low-rank one-step wave extrapolation. <i>Geophysics</i> , 2016 , 81, S271-S279	3.1	65
290	Nonlinear structure-enhancing filtering using plane-wave prediction*. <i>Geophysical Prospecting</i> , 2010 , 58, 415-427	1.9	64
289	Building realistic structure models to train convolutional neural networks for seismic structural interpretation. <i>Geophysics</i> , 2020 , 85, WA27-WA39	3.1	62

288	Nonstationary phase estimation using regularized local kurtosis maximization. <i>Geophysics</i> , 2009 , 74, A75-A80	3.1	61
287	EMD-seislet transform. <i>Geophysics</i> , 2018 , 83, A27-A32	3.1	59
286	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
285	Time-frequency analysis of seismic data using local attributes. <i>Geophysics</i> , 2011 , 76, P23-P34	3.1	59
284	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
283	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
282	SaltSeg: Automatic 3D salt segmentation using a deep convolutional neural network. <i>Interpretation</i> , 2019 , 7, SE113-SE122	1.4	56
281	Seismic data decomposition into spectral components using regularized nonstationary autoregression. <i>Geophysics</i> , 2013 , 78, O69-O76	3.1	56
280	Automatic salt-body classification using deep-convolutional neural network 2018 ,		56
279	Convolutional neural networks for fault interpretation in seismic images 2018 ,		55
278	Seismic data analysis using local time-frequency decomposition. <i>Geophysical Prospecting</i> , 2013 , 61, 516-525		54
277	Fast-phase space computation of multiple arrivals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002 , 99, 7329-34	11.5	54
276	Velocity continuation and the anatomy of residual prestack time migration. <i>Geophysics</i> , 2003 , 68, 1650-1661	3.1	50
275	Theory of 3-D angle gathers in wave-equation imaging 2004 ,		49
274	Seismic data interpolation beyond aliasing using regularized nonstationary autoregression. <i>Geophysics</i> , 2011 , 76, V69-V77	3.1	47
273	Time-lapse image registration using the local similarity attribute. <i>Geophysics</i> , 2009 , 74, A7-A11	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	Automatic channel detection using deep learning. <i>Interpretation</i> , 2019 , 7, SE43-SE50	1.4	46

270	Coordinate-independent angle-gathers for wave equation migration 2005 ,		45
269	On anelliptic approximations for qP velocities in transversely isotropic and orthorhombic media. <i>Geophysics</i> , 2015 , 80, C89-C105	3.1	43
268	Regularizing seismic inverse problems by model reparameterization using plane-wave construction. <i>Geophysics</i> , 2006 , 71, A43-A47	3.1	43
267	Path-integral seismic imaging. <i>Geophysical Prospecting</i> , 2006 , 54, 491-503	1.9	42
266	Multidimensional recursive filter preconditioning in geophysical estimation problems. <i>Geophysics</i> , 2003 , 68, 577-588	3.1	42
265	Riemannian wavefield extrapolation. <i>Geophysics</i> , 2005 , 70, T45-T56	3.1	42
264	Non-hyperbolic common reflection surface. <i>Geophysical Prospecting</i> , 2013 , 61, 21-27	1.9	41
263	Seismic velocity estimation from time migration. <i>Inverse Problems</i> , 2007 , 23, 1329-1369	2.3	41
262	Building good starting models for full-waveform inversion using adaptive matching filtering misfit. <i>Geophysics</i> , 2016 , 81, U61-U72	3.1	41
261	Low-rank one-step wave extrapolation for reverse time migration. <i>Geophysics</i> , 2016 , 81, S39-S54	3.1	40
260	Fourier finite-difference wave propagation. <i>Geophysics</i> , 2011 , 76, T123-T129	3.1	40
259	Automatic fault interpretation with optimal surface voting. <i>Geophysics</i> , 2018 , 83, O67-O82	3.1	39
258	The space-time domain: theory and modelling for anisotropic media. <i>Geophysical Journal International</i> , 2001 , 144, 105-113	2.6	39
257	Signal and noise separation in prestack seismic data using velocity-dependent seislet transform. <i>Geophysics</i> , 2015 , 80, WD117-WD128	3.1	38
256	Least-squares horizons with local slopes and multigrid correlations. <i>Geophysics</i> , 2018 , 83, IM29-IM40	3.1	37
255	Wave-equation angle-domain common-image gathers for converted waves. <i>Geophysics</i> , 2008 , 73, S17-S26.1		37
254	Amplitude-preserved common image gathers by wave-equation migration 2001 ,		34
253	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

252	Accelerated plane-wave destruction. <i>Geophysics</i> , 2013 , 78, V1-V9	3.1	32
251	Seismic data interpolation using CycleGAN 2019 ,		32
250	OC-seislet: Seislet transform construction with differential offset continuation. <i>Geophysics</i> , 2010 , 75, WB235-WB245	3.1	31
249	Lowrank seismic-wave extrapolation on a staggered grid. <i>Geophysics</i> , 2014 , 79, T157-T168	3.1	30
248	Theory of differential offset continuation. <i>Geophysics</i> , 2003 , 68, 718-732	3.1	30
247	A multistep approach to multicomponent seismic image registration with application to a West Texas carbonate reservoir study 2005 ,		30
246	Accelerating full-waveform inversion with attenuation compensation. <i>Geophysics</i> , 2018 , 83, A13-A20	3.1	29
245	Diffraction imaging and time-migration velocity analysis using oriented velocity continuation. <i>Geophysics</i> , 2017 , 82, U25-U35	3.1	28
244	A fast butterfly algorithm for generalized Radon transforms. <i>Geophysics</i> , 2013 , 78, U41-U51	3.1	27
243	Seismic wave extrapolation using lowrank symbol approximation 2010 ,		26
242	Time-to-depth conversion and seismic velocity estimation using time-migration velocity. <i>Geophysics</i> , 2008 , 73, VE205-VE210	3.1	25
241	Full-waveform inversion of passive seismic data for sources and velocities 2016 ,		25
240	Full-waveform inversion using seislet regularization. <i>Geophysics</i> , 2017 , 82, A43-A49	3.1	24
239	Structural uncertainty of time-migrated seismic images. <i>Journal of Applied Geophysics</i> , 2014 , 101, 27-30	1.7	24
238	3D generalized nonhyperboloidal moveout approximation. <i>Geophysics</i> , 2017 , 82, C49-C59	3.1	24
237	Multicomponent seismic data registration by least squares 2003 ,		24
236	3-D travelttime computation using Huygens wavefront tracing. <i>Geophysics</i> , 2001 , 66, 883-889	3.1	24
235	Carbonate reservoir characterization using seismic diffraction imaging. <i>Interpretation</i> , 2015 , 3, SF21-SF30.4		23

234	Seismic ground-roll noise attenuation using deep learning. <i>Geophysical Prospecting</i> , 2020 , 68, 2064-2077	1.9	23
233	Seismic diffraction interpretation at Piceance Creek. <i>Interpretation</i> , 2015 , 3, SF1-SF14	1.4	22
232	Preconditioning least-squares RTM in viscoacoustic media by Q-compensated RTM 2015 ,		21
231	Iterative resolution estimation in least-squares Kirchhoff migration. <i>Geophysical Prospecting</i> , 2002 , 50, 577-588	1.9	21
230	Seismic data interpolation using deep learning with generative adversarial networks. <i>Geophysical Prospecting</i> , 2021 , 69, 307-326	1.9	21
229	Velocity-independent \mathbb{E}_p moveout in a horizontally layered VTI medium. <i>Geophysics</i> , 2011 , 76, U45-U57	3.1	20
228	Improving the resolution of migrated images by approximating the inverse Hessian using deep learning. <i>Geophysics</i> , 2020 , 85, WA173-WA183	3.1	19
227	Automatic approaches for seismic to well tying. <i>Interpretation</i> , 2014 , 2, SD9-SD17	1.4	19
226	Investigating the possibility of locating microseismic sources using distributed sensor networks 2015 ,		19
225	First-break travelttime tomography with the double-square-root eikonal equation. <i>Geophysics</i> , 2013 , 78, U89-U101	3.1	19
224	Selecting an optimal aperture in Kirchhoff migration using dip-angle images. <i>Geophysics</i> , 2013 , 78, S243-S254	3.1	19
223	Wave-equation common-angle gathers for converted waves 2005 ,		19
222	Deep learning for relative geologic time and seismic horizons. <i>Geophysics</i> , 2020 , 85, WA87-WA100	3.1	19
221	Data-driven time-frequency analysis of seismic data using non-stationary Prony method. <i>Geophysical Prospecting</i> , 2018 , 66, 85-97	1.9	18
220	Omnidirectional plane-wave destruction. <i>Geophysics</i> , 2013 , 78, V171-V179	3.1	18
219	Generalized nonelliptic moveout approximation in \mathbb{E}_p domain. <i>Geophysics</i> , 2012 , 77, U23-U30	3.1	18
218	Moveout analysis by time-warping 2009 ,		18
217	Waveform embedding: Automatic horizon picking with unsupervised deep learning. <i>Geophysics</i> , 2020 , 85, WA67-WA76	3.1	17

216	Nonlinear shaping regularization in geophysical inverse problems 2008 ,		17
215	Towards the seislet transform 2006 ,		17
214	Generalized velocity approximation. <i>Geophysics</i> , 2019 , 84, C27-C40	3.1	17
213	Elastic wave-vector decomposition in heterogeneous anisotropic media. <i>Geophysical Prospecting</i> , 2017 , 65, 1231-1245	1.9	16
212	A comparison of diffraction imaging to incoherence and curvature. <i>The Leading Edge</i> , 2016 , 35, 86-89	1	16
211	EMD-seislet transform 2015 ,		16
210	Time-lapse seismic data registration and inversion for CO2 sequestration study at Cranfield. <i>Geophysics</i> , 2013 , 78, B329-B338	3.1	16
209	Fractal heterogeneities in sonic logs and low-frequency scattering attenuation. <i>Geophysics</i> , 2009 , 74, WA77-WA92	3.1	16
208	Azimuthally Anisotropic 3D Velocity Continuation. <i>International Journal of Geophysics</i> , 2011 , 2011, 1-8	2	16
207	Automatic channel detection using deep learning 2018 ,		16
206	Predictive coherence. <i>Interpretation</i> , 2015 , 3, SAE1-SAE7	1.4	15
205	Fast salt boundary interpretation with optimal path picking. <i>Geophysics</i> , 2018 , 83, O45-O53	3.1	15
204	Post-stack velocity analysis by separation and imaging of seismic diffractions 2006 ,		15
203	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
202	Imaging incomplete data and simultaneous-source data using least-squares reverse-time migration with shaping regularization 2014 ,		14
201	An eikonal-based formulation for traveltimes perturbation with respect to the source location. <i>Geophysics</i> , 2010 , 75, T175-T183	3.1	14
200	Regularizing velocity estimation using geologic dip information 1998 ,		14
199	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

198	Least-squares path-summation diffraction imaging using sparsity constraints. <i>Geophysics</i> , 2019 , 84, S187-S200	3.2	13
197	The WilsonBurg method of spectral factorization with application to helical filtering. <i>Geophysical Prospecting</i> , 2003 , 51, 409-420	1.9	13
196	Analytical path-summation imaging of seismic diffractions. <i>Geophysics</i> , 2017 , 82, S51-S59	3.1	12
195	Low-rank one-step wave extrapolation 2013 ,		12
194	3D velocity-independent elliptically anisotropic moveout correction. <i>Geophysics</i> , 2009 , 74, WB129-WB136	3.1	12
193	Implicit 3-D depth migration by wavefield extrapolation with helical boundary conditions 1998 ,		12
192	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
191	Mapping of moveout attributes using local slopes. <i>Geophysical Prospecting</i> , 2016 , 64, 31-37	1.9	12
190	Missing log data interpolation and semiautomatic seismic well ties using data matching techniques. <i>Interpretation</i> , 2019 , 7, T347-T361	1.4	12
189	Q-compensated full-waveform inversion using constant-Q wave equation 2016 ,		11
188	Theory of interval travelttime parameter estimation in layered anisotropic media. <i>Geophysics</i> , 2016 , 81, C253-C263	3.1	11
187	The modified generalized moveout approximation: a new parameter selection. <i>Geophysical Prospecting</i> , 2017 , 65, 687-695	1.9	11
186	Stratigraphic coordinates: a coordinate system tailored to seismic interpretation. <i>Geophysical Prospecting</i> , 2015 , 63, 1246-1255	1.9	11
185	Comparison of seismic diffraction imaging techniques: Plane wave destruction versus apex destruction 2013 ,		11
184	Local skewness attribute as a seismic phase detector. <i>Interpretation</i> , 2014 , 2, SA49-SA56	1.4	11
183	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
182	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
181	Nonstationary phase estimation: A tool for seismic interpretation?. <i>The Leading Edge</i> , 2010 , 29, 1020-1026		11

180	Reproducible Computational Experiments using Scons 2007 ,			11
179	Time-shift imaging condition for converted waves 2006 ,			11
178	Full-waveform inversion using smoothing kernels 2016 ,			11
177	Viscoacoustic modeling and imaging using low-rank approximation 2014 ,			10
176	Plane-wave Sobel attribute for discontinuity enhancement in seismic images. <i>Geophysics</i> , 2017 , 82, WB63-WB69			10
175	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
174	Image guided well log interpolation using predictive painting 2015 ,			10
173	Automatic traveltimes picking using instantaneous traveltimes. <i>Geophysics</i> , 2013 , 78, T53-T58	3.1		10
172	Fractures Detection Using Multi-Azimuth Diffractions Focusing Measure: Is it Feasible? 2010 ,			10
171	Multicomponent seismic data registration for subsurface characterization in the shallow Gulf of Mexico 2003 ,			10
170	Streaming prediction-error filters 2016 ,			10
169	Creating detailed subsurface models using predictive image-guided well-log interpolation. <i>Interpretation</i> , 2017 , 5, T279-T285	1.4		9
168	Predictive painting across faults. <i>Interpretation</i> , 2018 , 6, T449-T455	1.4		9
167	Recent advances in time-domain seismic imaging 2014 ,			9
166	Seismic data interpolation using plane-wave shaping regularization 2015 ,			9
165	Diffraction velocity analysis by path-integral seismic imaging 2011 ,			9
164	Stacking angle-domain common-image gathers for normalization of illumination. <i>Geophysical Prospecting</i> , 2011 , 59, 244-255	1.9		9
163	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

162	Time-domain seismic imaging using beams 2009 ,		9
161	Relative geologic time estimation using a deep convolutional neural network 2019 ,		9
160	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
159	Kirchhoff migration using eikonal-based computation of traveltimes source derivatives. <i>Geophysics</i> , 2013 , 78, S211-S219	3.1	8
158	An efficient workflow for path-integral imaging of seismic diffractions 2015 ,		8
157	Fast-marching eikonal solver in the tetragonal coordinates 1998 ,		8
156	Diffraction imaging using azimuthal plane-wave destruction 2016 ,		8
155	Overcoming numerical dispersion of finite-difference wave extrapolation using deep learning 2019 ,		8
154	Seislet-based morphological component analysis using scale-dependent exponential shrinkage. <i>Journal of Applied Geophysics</i> , 2015 , 118, 66-74	1.7	7
153	Matching and merging high-resolution and legacy seismic images. <i>Geophysics</i> , 2018 , 83, V115-V122	3.1	7
152	Automated spectral recombination with application in stratigraphic interpretation. <i>Interpretation</i> , 2013 , 1, SA109-SA116	1.4	7
151	Angle gathers in wave-equation imaging for transversely isotropic media. <i>Geophysical Prospecting</i> , 2011 , 59, 422-431	1.9	7
150	Local similarity with the envelope as a seismic phase detector 2010 ,		7
149	Analysis and algorithms for a regularized cauchy problem arising from a non-linear elliptic PDE for seismic velocity estimation. <i>Journal of Computational Physics</i> , 2009 , 228, 7388-7411	4.1	7
148	Time-frequency characterization of seismic data using local attributes 2009 ,		7
147	Predictive painting of 3-D seismic volumes 2008 ,		7
146	True amplitude DMO, offset continuation and AVA/AVO for curved reflectors 1996 ,		7
145	Time-shift imaging condition 2005 ,		7

144	The Slope-Attribute-Regularized High-Resolution Prestack Seismic Inversion. <i>Surveys in Geophysics</i> , 2021 , 42, 625-671	7.6	7
143	Elastic wave-mode separation in heterogeneous anisotropic media using deep learning 2019 ,		7
142	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
141	Deep learning for velocity model building with common-image gather volumes. <i>Geophysical Journal International</i> ,	2.6	7
140	Least-squares diffraction imaging using shaping regularization by anisotropic smoothing. <i>Geophysics</i> , 2020 , 85, S313-S325	3.1	6
139	Least-squares reverse-time migration using one-step two-way wave extrapolation by non-stationary phase shift 2014 ,		6
138	Recursive integral time extrapolation of elastic waves using low-rank symbol approximation. <i>Geophysical Journal International</i> , 2017 , 211, 1478-1493	2.6	6
137	Unconventional Reservoir Characterization Using Azimuthal Seismic Diffraction Imaging 2017 ,		6
136	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
135	Improving wave-equation fidelity of Gaussian beams by solving the complex eikonal equation 2011 ,		6
134	Fast Computation of Partial Fourier Transforms. <i>Multiscale Modeling and Simulation</i> , 2009 , 8, 110-124	1.8	6
133	Seismic data sampling and wavefield representation ¶Introduction. <i>Geophysics</i> , 2010 , 75, WB1-WB2	3.1	6
132	Non-hyperbolic common reflection surface 2009 ,		6
131	Separating primaries and multiples using hyperbolic Radon transform with deep learning 2020 ,		6
130	Deep learning parameterization for geophysical inverse problems 2020 ,		5
129	Incremental correlation of multiple well logs following geologically optimal neighbors. <i>Interpretation</i> , 2018 , 6, T713-T722	1.4	5
128	Finding an optimal well-log correlation sequence using coherence-weighted graphs 2017 ,		5
127	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

126	Two-point seismic ray tracing in layered media using bending 2014,		5
125	Shifted hyperbola moveout approximation revisited. <i>Geophysical Prospecting</i> , 2012 , 60, 395-399	1.9	5
124	Fourier finite-difference wave propagation 2010,		5
123	Seismic velocity estimation and time to depth conversion of time-migrated images 2006,		5
122	Velocity-independent time-domain seismic imaging using local event slopes 2005,		5
121	Shaping regularization in geophysical estimation problems 2005,		5
120	Angle gathers in wave-equation imaging for VTI media 2009,		5
119	Lowrank finite-differences for wave extrapolation 2011,		5
118	Wave-equation time migration 2013,		5
117	Random noise attenuation using local similarity 2014,		5
116	Anelliptic approximations for qP velocities in orthorhombic media 2014,		5
115	Uncertainty estimation using Bayesian convolutional neural network for automatic channel detection 2020,		5
114	Relative time seislet transform. <i>Geophysics</i> , 2020 , 85, V223-V232	3.1	5
113	A Compact Program for 3D Passive Seismic Source-Location Imaging. <i>Seismological Research Letters</i> , 2021 , 92, 3187-3201	3	5
112	Uncertainty and interpretability analysis of encoder-decoder architecture for channel detection. <i>Geophysics</i> , 2021 , 86, O49-O58	3.1	5
111	Migration-based passive-source imaging for continuous data 2016,		5
110	Structure-oriented plane-wave Sobel filter for edge detection in seismic images 2016,		5
109	Estimating the inverse Hessian for amplitude correction of migrated images using deep learning 2019,		5

108	Solving fractional Laplacian viscoelastic wave equations using domain decomposition 2018 ,		5
107	Nonstationary local signal-and-noise orthogonalization. <i>Geophysics</i> , 2021 , 86, V409-V418	3.1	5
106	Pattern-guided dip estimation with plane-wave destruction filters. <i>Geophysical Prospecting</i> , 2019 , 67, 1798-1810	1.9	4
105	A fast algorithm for 3D azimuthally anisotropic velocity scan. <i>Geophysical Prospecting</i> , 2015 , 63, 368-377	1.9	4
104	Reproducible research: Geophysics papers of the future Introduction. <i>Geophysics</i> , 2017 , 82, WBi-WBii	3.1	4
103	Elastic wave-vector decomposition in orthorhombic media 2015 ,		4
102	A robust approach to time-to-depth conversion in the presence of lateral-velocity variations 2013 ,		4
101	Source-receiver two-way wave extrapolation for prestack exploding-reflector modeling and migration 2010 ,		4
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