

Sergey B Fomel

List of Publications by Year in descending order

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374
papers

12,600
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28190

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33814

99
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375
all docs

375
docs citations

375
times ranked

2665
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 1 | High-Fidelity Permeability and Porosity Prediction Using Deep Learning With the Self-Attention Mechanism. IEEE Transactions on Neural Networks and Learning Systems, 2023, 34, 3429-3443. | 7.2 | 8 |
| 2 | Joint deblending and source time inversion. Geophysics, 2023, 88, WA27-WA35. | 1.4 | 2 |
| 3 | Simultaneous Reconstruction and Denoising of Extremely Sparse 5-D Seismic Data by a Simple and Effective Method. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-12. | 2.7 | 1 |
| 4 | Machine Learning for Fast and Reliable Source-Location Estimation in Earthquake Early Warning. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5. | 1.4 | 13 |
| 5 | A MATLAB code package for 2D/3D local slope estimation and structural filtering. Geophysics, 2022, 87, F1-F14. | 1.4 | 17 |
| 6 | Time-lapse seismic data inversion for estimating reservoir parameters using deep learning. Interpretation, 2022, 10, T167-T179. | 0.5 | 9 |
| 7 | Semisupervised salt segmentation using mean teacher. Interpretation, 2022, 10, SE21-SE29. | 0.5 | 8 |
| 8 | A variational approach for picking optimal surfaces from semblance-like panels. Geophysics, 2022, 87, U93-U108. | 1.4 | 1 |
| 9 | 3D Microseismic Monitoring Using Machine Learning. Journal of Geophysical Research: Solid Earth, 2022, 127, . | 1.4 | 16 |
| 10 | Real-time Earthquake Detection and Magnitude Estimation Using Vision Transformer. Journal of Geophysical Research: Solid Earth, 2022, 127, . | 1.4 | 17 |
| 11 | High-resolution and robust microseismic grouped imaging and grouping strategy analysis. Geophysical Prospecting, 2022, 70, 980-1002. | 1.0 | 2 |
| 12 | Seismic data interpolation using deep learning with generative adversarial networks. Geophysical Prospecting, 2021, 69, 307-326. | 1.0 | 54 |
| 13 | Wave-equation time migration. Geophysics, 2021, 86, S103-S111. | 1.4 | 1 |
| 14 | Interactively tracking seismic geobodies with a deep-learning flood-filling network. Geophysics, 2021, 86, A1-A5. | 1.4 | 8 |
| 15 | The Slope-Attribute-Regularized High-Resolution Prestack Seismic Inversion. Surveys in Geophysics, 2021, 42, 625-671. | 2.1 | 11 |
| 16 | SCALODEEP: A Highly Generalized Deep Learning Framework for Real-time Earthquake Detection. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021473. | 1.4 | 39 |
| 17 | A Compact Program for 3D Passive Seismic Source-Location Imaging. Seismological Research Letters, 2021, 92, 3187-3201. | 0.8 | 8 |
| 18 | Uncertainty and interpretability analysis of encoder-decoder architecture for channel detection. Geophysics, 2021, 86, O49-O58. | 1.4 | 10 |

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|----|---|-----|-----------|
| 19 | 5D dealiased seismic data interpolation using nonstationary prediction-error filter. <i>Geophysics</i> , 2021, 86, V419-V429. | 1.4 | 9 |
| 20 | Nonstationary local signal-and-noise orthogonalization. <i>Geophysics</i> , 2021, 86, V409-V418. | 1.4 | 11 |
| 21 | Nonstretching NMO correction using deep learning. , 2021, , . | | 0 |
| 22 | A continuation approach for avoiding local minima in seismic velocity picking. , 2021, , . | | 1 |
| 23 | A Fast Algorithm for Elastic Waveâ€Mode Separation Using Deep Learning With Generative Adversarial Networks (GANs). <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021123. | 1.4 | 8 |
| 24 | Boundary conditions for acoustic and elastic wave propagation using deep learning. , 2021, , . | | 2 |
| 25 | Deep learning for velocity model building with common-image gather volumes. <i>Geophysical Journal International</i> , 2021, 228, 1054-1070. | 1.0 | 24 |
| 26 | Channel facies and faults multisegmentation in seismic volumes. , 2021, , . | | 2 |
| 27 | Streaming seismic attributes. , 2021, , . | | 0 |
| 28 | A Probabilistic Approach to Seismic Diffraction Imaging. <i>Lithosphere</i> , 2021, 2021, . | 0.6 | 3 |
| 29 | Probabilistic moveout analysis by time warping. <i>Geophysics</i> , 2020, 85, U1-U20. | 1.4 | 4 |
| 30 | Building realistic structure models to train convolutional neural networks for seismic structural interpretation. <i>Geophysics</i> , 2020, 85, WA27-WA39. | 1.4 | 130 |
| 31 | Relative time seislet transform. <i>Geophysics</i> , 2020, 85, V223-V232. | 1.4 | 10 |
| 32 | Deep learning for relative geologic time and seismic horizons. <i>Geophysics</i> , 2020, 85, WA87-WA100. | 1.4 | 47 |
| 33 | Improving the resolution of migrated images by approximating the inverse Hessian using deep learning. <i>Geophysics</i> , 2020, 85, WA173-WA183. | 1.4 | 50 |
| 34 | Seismic groundâ€roll noise attenuation using deep learning. <i>Geophysical Prospecting</i> , 2020, 68, 2064-2077. | 1.0 | 52 |
| 35 | Deep learning parameterization for geophysical inverse problems. , 2020, , . | | 10 |
| 36 | Least-squares diffraction imaging using shaping regularization by anisotropic smoothing. <i>Geophysics</i> , 2020, 85, S313-S325. | 1.4 | 9 |

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|----|---|-----|-----------|
| 37 | Waveform embedding: Automatic horizon picking with unsupervised deep learning. <i>Geophysics</i> , 2020, 85, WA67-WA76. | 1.4 | 45 |
| 38 | Time-lapse seismic data inversion for estimating reservoir parameters using deep learning. , 2020, , . | | 5 |
| 39 | Separating primaries and multiples using hyperbolic Radon transform with deep learning. , 2020, , . | | 11 |
| 40 | Uncertainty estimation using Bayesian convolutional neural network for automatic channel detection. , 2020, , . | | 12 |
| 41 | A variational method for picking velocity surfaces from semblance scans. , 2020, , . | | 1 |
| 42 | Passive seismic signal denoising using convolutional neural network. , 2020, , . | | 2 |
| 43 | Effects of lateral heterogeneity on time-domain processing parameters. <i>Geophysical Journal International</i> , 2019, 219, 1181-1201. | 1.0 | 4 |
| 44 | 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. | 2.7 | 97 |
| 45 | 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. | 1.0 | 52 |
| 46 | SaltSeg: Automatic 3D salt segmentation using a deep convolutional neural network. <i>Interpretation</i> , 2019, 7, SE113-SE122. | 0.5 | 121 |
| 47 | Automatic channel detection using deep learning. <i>Interpretation</i> , 2019, 7, SE43-SE50. | 0.5 | 75 |
| 48 | Pattern-guided dip estimation with plane-wave destruction filters. <i>Geophysical Prospecting</i> , 2019, 67, 1798-1810. | 1.0 | 6 |
| 49 | Least-squares path-summation diffraction imaging using sparsity constraints. <i>Geophysics</i> , 2019, 84, S187-S200. | 1.4 | 21 |
| 50 | 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. | 1.4 | 484 |
| 51 | Elastic wave-mode separation in heterogeneous anisotropic media using deep learning. , 2019, , . | | 10 |
| 52 | Seismic data interpolation using CycleGAN. , 2019, , . | | 55 |
| 53 | Building realistic structure models to train convolutional neural networks for seismic structural interpretation. , 2019, , . | | 1 |
| 54 | Overcoming numerical dispersion of finite-difference wave extrapolation using deep learning. , 2019, , . | | 15 |

| # | ARTICLE | IF | CITATIONS |
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| 55 | 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, , . | | 10 |
| 56 | Estimating the inverse Hessian for amplitude correction of migrated images using deep learning. , 2019, , . | | 8 |
| 57 | Missing log data interpolation and semiautomatic seismic well ties using data matching techniques. Interpretation, 2019, 7, T347-T361. | 0.5 | 20 |
| 58 | Generalized velocity approximation. Geophysics, 2019, 84, C27-C40. | 1.4 | 21 |
| 59 | Relative geologic time estimation using a deep convolutional neural network. , 2019, , . | | 15 |
| 60 | Prestack phase corrections using local seismic attributes. , 2019, , . | | 0 |
| 61 | Path-integral seismic diffraction imaging with probability weights. , 2019, , . | | 1 |
| 62 | Seismic image interpolation from irregular locations to a 3D grid using dynamic time warping. , 2019, , . | | 0 |
| 63 | Predictive painting across faults. Interpretation, 2018, 6, T449-T455. | 0.5 | 11 |
| 64 | Fast time-to-depth conversion and interval velocity estimation in the case of weak lateral variations. Geophysics, 2018, 83, S227-S235. | 1.4 | 11 |
| 65 | Fast salt boundary interpretation with optimal path picking. Geophysics, 2018, 83, O45-O53. | 1.4 | 21 |
| 66 | Matching and merging high-resolution and legacy seismic images. Geophysics, 2018, 83, V115-V122. | 1.4 | 15 |
| 67 | Subsurface Exploration: Recent Advances in Geo-Signal Processing, Interpretation, and Learning [From the Guest Editors]. IEEE Signal Processing Magazine, 2018, 35, 16-18. | 4.6 | 1 |
| 68 | Least-squares horizons with local slopes and multigrid correlations. Geophysics, 2018, 83, IM29-IM40. | 1.4 | 62 |
| 69 | Data-driven time-frequency analysis of seismic data using nonstationary Prony method. Geophysical Prospecting, 2018, 66, 85-97. | 1.0 | 26 |
| 70 | Accelerating full-waveform inversion with attenuation compensation. Geophysics, 2018, 83, A13-A20. | 1.4 | 43 |
| 71 | EMD-seislet transform. Geophysics, 2018, 83, A27-A32. | 1.4 | 86 |
| 72 | Increasing resolution of reverse-time migration using time-shift gathers. Geophysical Prospecting, 2018, 66, 726-735. | 1.0 | 2 |

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| 73 | Solving fractional Laplacian viscoelastic wave equations using domain decomposition. , 2018, , . | | 9 |
| 74 | A finite-element method for blind deconvolution with dynamic frequency wavelets. , 2018, , . | | 2 |
| 75 | Convolutional neural networks for fault interpretation in seismic images. , 2018, , . | | 83 |
| 76 | Least-squares seismic horizons with local slopes and multigrid correlations. , 2018, , . | | 1 |
| 77 | Automatic salt-body classification using deep-convolutional neural network. , 2018, , . | | 71 |
| 78 | Automatic fault interpretation with optimal surface voting. Geophysics, 2018, 83, O67-O82. | 1.4 | 69 |
| 79 | Incremental correlation of multiple well logs following geologically optimal neighbors. Interpretation, 2018, 6, T713-T722. | 0.5 | 8 |
| 80 | Automatic channel detection using deep learning. , 2018, , . | | 19 |
| 81 | Missing well-log data prediction using Bayesian approach in the relative-geologic time domain. , 2018, , . | | 6 |
| 82 | Least-squares diffraction imaging using shaping regularization by anisotropic smoothing. , 2018, , . | | 2 |
| 83 | Improving migration resolution by approximating the least-squares Hessian using nonstationary amplitude and frequency matching. , 2018, , . | | 6 |
| 84 | Missing Well Log Estimation by Multiple Well-log Correlation. , 2018, , . | | 4 |
| 85 | Improving spatial resolution of seismic stack using inversion to zero-offset with shaping regularization. , 2018, , . | | 0 |
| 86 | Using well-seismic mistie to update the velocity model. , 2018, , . | | 0 |
| 87 | Automatic fault interpretation using optimal surface voting. , 2018, , . | | 5 |
| 88 | Diffraction imaging and time-migration velocity analysis using oriented velocity continuation. Geophysics, 2017, 82, U25-U35. | 1.4 | 44 |
| 89 | Full-waveform inversion using seislet regularization. Geophysics, 2017, 82, A43-A49. | 1.4 | 36 |
| 90 | Introduction to special section: Computer-assisted seismic interpretation methods. Interpretation, 2017, 5, Sji-SJii. | 0.5 | 1 |

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| 91 | Creating detailed subsurface models using predictive image-guided well-log interpolation. Interpretation, 2017, 5, T279-T285. | 0.5 | 14 |
| 92 | Elastic wavevector decomposition in heterogeneous anisotropic media. Geophysical Prospecting, 2017, 65, 1231-1245. | 1.0 | 24 |
| 93 | Analytical path-summation imaging of seismic diffractions. Geophysics, 2017, 82, S51-S59. | 1.4 | 19 |
| 94 | Fast time-to-depth conversion and interval velocity estimation with weak lateral variations. , 2017, , . | | 1 |
| 95 | Well-log interpolation guided by geologic distance. , 2017, , . | | 3 |
| 96 | Estimation of timeshifts between time-lapse seismic images using spectral decomposition. , 2017, , . | | 1 |
| 97 | Balancing local frequency content in seismic data using nonstationary smoothing. , 2017, , . | | 2 |
| 98 | Effects of lateral heterogeneity on reflection traveltimes. , 2017, , . | | 3 |
| 99 | Oriented anisotropy continuation using shifted hyperbola travelttime approximation. , 2017, , . | | 0 |
| 100 | Diffracted migration velocity analysis using double-path summation. , 2017, , . | | 2 |
| 101 | Incremental correlation of multiple well logs following geologically optimal neighbors. , 2017, , . | | 4 |
| 102 | Reproducible research: Geophysics papers of the future " Introduction. Geophysics, 2017, 82, WBi-WBii. | 1.4 | 4 |
| 103 | Semiautomatic seismic well ties and log data interpolation. , 2017, , . | | 3 |
| 104 | Plane-wave Sobel attribute for discontinuity enhancement in seismic images. Geophysics, 2017, 82, WB63-WB69. | 1.4 | 14 |
| 105 | Finding an optimal well-log correlation sequence using coherence-weighted graphs. , 2017, , . | | 7 |
| 106 | 3D generalized nonhyperboloidal moveout approximation. Geophysics, 2017, 82, C49-C59. | 1.4 | 30 |
| 107 | Time-variant wavelet extraction with a local-attribute-based time-frequency decomposition for seismic inversion. Interpretation, 2017, 5, SC9-SC16. | 0.5 | 22 |
| 108 | The modified generalized moveout approximation: a new parameter selection. Geophysical Prospecting, 2017, 65, 687-695. | 1.0 | 12 |

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| 109 | Fast salt-boundary interpretation with optimal path picking. , 2017, , . | | 6 |
| 110 | Recursive integral time extrapolation of elastic waves using low-rank symbol approximation. Geophysical Journal International, 2017, 211, 1478-1493. | 1.0 | 8 |
| 111 | Unconventional Reservoir Characterization Using Azimuthal Seismic Diffraction Imaging. , 2017, , . | | 6 |
| 112 | Enhancing seismic-diffraction images using semblance-weighted least-squares migration. , 2017, , . | | 5 |
| 113 | Predictive painting across faults. , 2017, , . | | 3 |
| 114 | Diffraction imaging of high-resolution 3D P-cable data from the Gulf of Mexico using azimuthal plane-wave destruction. First Break, 2017, 35, . | 0.2 | 18 |
| 115 | Visco-acoustic Full Waveform Inversion with Q-compensation. , 2017, , . | | 1 |
| 116 | Matching and merging high-resolution and legacy seismic images. , 2017, , . | | 0 |
| 117 | Mapping of moveout attributes using local slopes. Geophysical Prospecting, 2016, 64, 31-37. | 1.0 | 12 |
| 118 | Time-lapse image registration using the stratigraphic-coordinate system. , 2016, , . | | 5 |
| 119 | Microseismic source localization using time-domain path-integral migration. , 2016, , . | | 4 |
| 120 | Full-waveform inversion of passive seismic data for sources and velocities. , 2016, , . | | 38 |
| 121 | Migration-based passive-source imaging for continuous data. , 2016, , . | | 10 |
| 122 | 5. Diffraction Imaging. , 2016, , 655-800. | | 0 |
| 123 | Diffraction imaging using azimuthal plane-wave destruction. , 2016, , . | | 11 |
| 124 | Least-squares path-integral diffraction imaging using sparsity constraints. , 2016, , . | | 5 |
| 125 | Streaming prediction-error filters. , 2016, , . | | 18 |
| 126 | A comparison of anisotropic parameterizations for Ti and orthorhombic media and their sensitivity with respect to qP velocities. , 2016, , . | | 1 |

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| 127 | Fast scattered data gridding. , 2016, , . | | 4 |
| 128 | Structure-oriented plane-wave Sobel filter for edge detection in seismic images. , 2016, , . | | 7 |
| 129 | 1. Overview. , 2016, , 1-62. | | 0 |
| 130 | Full-waveform inversion using smoothing kernels. , 2016, , . | | 20 |
| 131 | Double-sparsity dictionary for seismic noise attenuation. Geophysics, 2016, 81, V103-V116. | 1.4 | 174 |
| 132 | Building good starting models for full-waveform inversion using adaptive matching filtering misfit. Geophysics, 2016, 81, U61-U72. | 1.4 | 59 |
| 133 | A Bayesian approach to estimate uncertainty for full-waveform inversion using a priori information from depth migration. Geophysics, 2016, 81, R307-R323. | 1.4 | 82 |
| 134 | Applications of adaptive-matching filter in full-waveform inversion. , 2016, , . | | 0 |
| 135 | Q-compensated full-waveform inversion using constant-Q wave equation. , 2016, , . | | 17 |
| 136 | Q-compensated least-squares reverse time migration using low-rank one-step wave extrapolation. Geophysics, 2016, 81, S271-S279. | 1.4 | 97 |
| 137 | Data-driven time-frequency analysis of seismic data using regularized nonstationary autoregression. , 2016, , . | | 3 |
| 138 | Theory of interval traveltimes parameter estimation in layered anisotropic media. Geophysics, 2016, 81, C253-C263. | 1.4 | 12 |
| 139 | Seismic imaging of incomplete data and simultaneous-source data using least-squares reverse time migration with shaping regularization. Geophysics, 2016, 81, S11-S20. | 1.4 | 159 |
| 140 | A comparison of diffraction imaging to incoherence and curvature. The Leading Edge, 2016, 35, 86-89. | 0.4 | 25 |
| 141 | Low-rank one-step wave extrapolation for reverse time migration. Geophysics, 2016, 81, S39-S54. | 1.4 | 67 |
| 142 | Seismic time-lapse image registration using amplitude-adjusted plane-wave destruction. , 2016, , . | | 12 |
| 143 | High-resolution recursive stacking using plane-wave construction. , 2016, , . | | 2 |
| 144 | Recursive integral time extrapolation of elastic waves using lowrank approximation. , 2016, , . | | 11 |

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| 145 | Generalized Moveout Approximation Revisited. Alternative Parameter Selection. , 2016, , . | | 0 |
| 146 | Elastic wave-vector decomposition in orthorhombic media. , 2015, , . | | 5 |
| 147 | Weighted least square based lowrank finite difference for seismic wave extrapolation. , 2015, , . | | 2 |
| 148 | Preconditioning least-squares RTM in viscoacoustic media by Q -compensated RTM. , 2015, , . | | 25 |
| 149 | Investigating the possibility of locating microseismic sources using distributed sensor networks. , 2015, , . | | 38 |
| 150 | Seismic data interpolation using plane-wave shaping regularization. , 2015, , . | | 11 |
| 151 | An efficient workflow for path-integral imaging of seismic diffractions. , 2015, , . | | 10 |
| 152 | Stratigraphic coordinates: a coordinate system tailored to seismic interpretation. Geophysical Prospecting, 2015, 63, 1246-1255. | 1.0 | 20 |
| 153 | Source-receiver two-way wave extrapolation for prestack exploding-reflector modelling and migration. Geophysical Prospecting, 2015, 63, 23-34. | 1.0 | 5 |
| 154 | Uncertainty estimation for full waveform inversion with a prior information from depth migration. , 2015, , . | | 0 |
| 155 | Image guided well log interpolation using predictive painting. , 2015, , . | | 16 |
| 156 | On anelliptic approximations for qP velocities in transversely isotropic and orthorhombic media. Geophysics, 2015, 80, C89-C105. | 1.4 | 57 |
| 157 | Reproducible Research as a Community Effort: Lessons from the Madagascar Project. Computing in Science and Engineering, 2015, 17, 20-26. | 1.2 | 8 |
| 158 | Taking signal and noise to new dimensions – Introduction. Geophysics, 2015, 80, WDi-WDii. | 1.4 | 1 |
| 159 | EMD-seislet transform. , 2015, , . | | 21 |
| 160 | Random noise attenuation using local signal-and-noise orthogonalization. Geophysics, 2015, 80, WD1-WD9. | 1.4 | 286 |
| 161 | Carbonate reservoir characterization using seismic diffraction imaging. Interpretation, 2015, 3, SF21-SF30. | 0.5 | 31 |
| 162 | Seislet-based morphological component analysis using scale-dependent exponential shrinkage. Journal of Applied Geophysics, 2015, 118, 66-74. | 0.9 | 14 |

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|-----|--|-----|-----------|
| 163 | Seismic diffraction interpretation at Piceance Creek. Interpretation, 2015, 3, SF1-SF14. | 0.5 | 40 |
| 164 | A robust approach to time-to-depth conversion and interval velocity estimation from time migration in the presence of lateral velocity variations. Geophysical Prospecting, 2015, 63, 315-337. | 1.0 | 22 |
| 165 | A fast algorithm for 3D azimuthally anisotropic velocity scan. Geophysical Prospecting, 2015, 63, 368-377. | 1.0 | 6 |
| 166 | Introduction to special section: Thin beds. Interpretation, 2015, 3, SSI-SSii. | 0.5 | 0 |
| 167 | Introduction to special section: Diffraction imaging. Interpretation, 2015, 3, SFi-SFii. | 0.5 | 0 |
| 168 | Signal and noise separation in prestack seismic data using velocity-dependent seislet transform. Geophysics, 2015, 80, WD117-WD128. | 1.4 | 56 |
| 169 | Viscoacoustic modeling and imaging using low-rank approximation. Geophysics, 2015, 80, A103-A108. | 1.4 | 116 |
| 170 | Predictive coherence. Interpretation, 2015, 3, SAE1-SAE7. | 0.5 | 24 |
| 171 | 3D generalized nonhyperboloidal moveout approximation. , 2015, , . | | 3 |
| 172 | Improving resolution of NMO stack using shaping regularization. , 2015, , . | | 6 |
| 173 | Random Noise Attenuation Using Local Signal and Noise Orthogonalization. , 2015, , . | | 2 |
| 174 | Double Sparsity Dictionary for Seismic Noise Attenuation. , 2015, , . | | 1 |
| 175 | Median balancing: A linearly convergent algorithm for time gain power correction. , 2015, , . | | 0 |
| 176 | RTM interpolation using time-shift gathers. , 2015, , . | | 0 |
| 177 | Local skewness attribute as a seismic phase detector. Interpretation, 2014, 2, SA49-SA56. | 0.5 | 17 |
| 178 | Imaging incomplete data and simultaneous-source data using least-squares reverse-time migration with shaping regularization. , 2014, , . | | 18 |
| 179 | Iterative deblending of simultaneous-source seismic data using seislet-domain shaping regularization. Geophysics, 2014, 79, V179-V189. | 1.4 | 255 |
| 180 | Fast algorithms for elastic-wave-mode separation and vector decomposition using low-rank approximation for anisotropic media. Geophysics, 2014, 79, C97-C110. | 1.4 | 108 |

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|-----|---|-----|-----------|
| 181 | Lowrank seismic-wave extrapolation on a staggered grid. <i>Geophysics</i> , 2014, 79, T157-T168. | 1.4 | 45 |
| 182 | Two-point seismic ray tracing in layered media using bending. , 2014, , . | | 8 |
| 183 | Time-lapse prestack seismic data registration and inversion for CO ₂ sequestration study at Cranfield. <i>Geophysical Prospecting</i> , 2014, 62, 1028-1039. | 1.0 | 9 |
| 184 | Automatic approaches for seismic to well tying. <i>Interpretation</i> , 2014, 2, SD9-SD17. | 0.5 | 41 |
| 185 | Structural uncertainty of time-migrated seismic images. <i>Journal of Applied Geophysics</i> , 2014, 101, 27-30. | 0.9 | 37 |
| 186 | Viscoacoustic modeling and imaging using low-rank approximation. , 2014, , . | | 15 |
| 187 | Transforming prestack seismic data by Gardner continuation. , 2014, , . | | 2 |
| 188 | Least-squares reverse-time migration using one-step two-way wave extrapolation by non-stationary phase shift. , 2014, , . | | 7 |
| 189 | Recent advances in time-domain seismic imaging. , 2014, , . | | 14 |
| 190 | Frequency-domain reverse-time migration with a sparse-frequency sampling. , 2014, , . | | 0 |
| 191 | Diffraction imaging and velocity analysis using oriented velocity continuation. , 2014, , . | | 4 |
| 192 | Random noise attenuation using local similarity. , 2014, , . | | 6 |
| 193 | Modified anelliptic approximations for qP velocities in transversely isotropic media. , 2014, , . | | 3 |
| 194 | Anelliptic approximations for qP velocities in orthorhombic media. , 2014, , . | | 5 |
| 195 | Separation of primaries and multiples using VD-seislet frame. , 2014, , . | | 0 |
| 196 | Non-hyperbolic common reflection surface. <i>Geophysical Prospecting</i> , 2013, 61, 21-27. | 1.0 | 50 |
| 197 | Seismic wave extrapolation using lowrank symbol approximation. <i>Geophysical Prospecting</i> , 2013, 61, 526-536. | 1.0 | 223 |
| 198 | Kirchhoff migration using eikonal-based computation of traveltimes source derivatives. <i>Geophysics</i> , 2013, 78, S211-S219. | 1.4 | 13 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 199 | A fast butterfly algorithm for generalized Radon transforms. <i>Geophysics</i> , 2013, 78, U41-U51. | 1.4 | 32 |
| 200 | Fast algorithms for elastic-wave-mode separation and vector decomposition using low-rank approximation for anisotropic media. , 2013, , . | | 6 |
| 201 | Seismic data analysis using local timeâ€frequency decomposition. <i>Geophysical Prospecting</i> , 2013, 61, 516-525. | 1.0 | 86 |
| 202 | Automatic traveltime picking using instantaneous traveltime. <i>Geophysics</i> , 2013, 78, T53-T58. | 1.4 | 17 |
| 203 | Automated spectral recomposition with application in stratigraphic interpretation. <i>Interpretation</i> , 2013, 1, SA109-SA116. | 0.5 | 17 |
| 204 | Accelerated plane-wave destruction. <i>Geophysics</i> , 2013, 78, V1-V9. | 1.4 | 46 |
| 205 | Omnidirectional plane-wave destruction. <i>Geophysics</i> , 2013, 78, V171-V179. | 1.4 | 26 |
| 206 | First-break traveltime tomography with the double-square-root eikonal equation. <i>Geophysics</i> , 2013, 78, U89-U101. | 1.4 | 28 |
| 207 | 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. | 1.0 | 103 |
| 208 | Predictive coherency. , 2013, , . | | 2 |
| 209 | Selecting an optimal aperture in Kirchhoff migration using dip-angle images. <i>Geophysics</i> , 2013, 78, S243-S254. | 1.4 | 31 |
| 210 | Seismic data decomposition into spectral components using regularized nonstationary autoregression. <i>Geophysics</i> , 2013, 78, O69-O76. | 1.4 | 74 |
| 211 | Fast Beam Migration using Plane Wave Destructor (PWD) Beam Forming. , 2013, , . | | 0 |
| 212 | Time-lapse seismic data registration and inversion for CO2 sequestration study at Cranfield. <i>Geophysics</i> , 2013, 78, B329-B338. | 1.4 | 22 |
| 213 | A robust approach to time-to-depth conversion in the presence of lateral-velocity variations. , 2013, , . | | 4 |
| 214 | Iterative deblending of simultaneous-source seismic data using shaping regularization. , 2013, , . | | 4 |
| 215 | Low-rank one-step wave extrapolation. , 2013, , . | | 13 |
| 216 | Comparison of seismic diffraction imaging techniques: Plane wave destruction versus apex destruction. , 2013, , . | | 15 |

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