

Sergey B Fomel

List of Publications by Year in descending order

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374
papers

12,600
citations

28190

55
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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 | Applications of plane-wave destruction filters. <i>Geophysics</i> , 2002, 67, 1946-1960. | 1.4 | 645 |
| 2 | 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 |
| 3 | Angle-domain common-image gathers by wavefield continuation methods. <i>Geophysics</i> , 2003, 68, 1065-1074. | 1.4 | 449 |
| 4 | Shaping regularization in geophysical-estimation problems. <i>Geophysics</i> , 2007, 72, R29-R36. | 1.4 | 350 |
| 5 | Local seismic attributes. <i>Geophysics</i> , 2007, 72, A29-A33. | 1.4 | 350 |
| 6 | Seislet transform and seislet frame. <i>Geophysics</i> , 2010, 75, V25-V38. | 1.4 | 332 |
| 7 | Time-shift imaging condition in seismic migration. <i>Geophysics</i> , 2006, 71, S209-S217. | 1.4 | 298 |
| 8 | Poststack velocity analysis by separation and imaging of seismic diffractions. <i>Geophysics</i> , 2007, 72, U89-U94. | 1.4 | 297 |
| 9 | Random noise attenuation using local signal-and-noise orthogonalization. <i>Geophysics</i> , 2015, 80, WD1-WD9. | 1.4 | 286 |
| 10 | Iterative deblending of simultaneous-source seismic data using seislet-domain shaping regularization. <i>Geophysics</i> , 2014, 79, V179-V189. | 1.4 | 255 |
| 11 | Seismic wave extrapolation using lowrank symbol approximation. <i>Geophysical Prospecting</i> , 2013, 61, 526-536. | 1.0 | 223 |
| 12 | Double-sparsity dictionary for seismic noise attenuation. <i>Geophysics</i> , 2016, 81, V103-V116. | 1.4 | 174 |
| 13 | Separation and imaging of seismic diffractions using migrated dip-angle gathers. <i>Geophysics</i> , 2012, 77, S131-S143. | 1.4 | 170 |
| 14 | 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. | 1.4 | 159 |
| 15 | Predictive painting of 3D seismic volumes. <i>Geophysics</i> , 2010, 75, A25-A30. | 1.4 | 153 |
| 16 | Seismic reflection data interpolation with differential offset and shot continuation. <i>Geophysics</i> , 2003, 68, 733-744. | 1.4 | 144 |
| 17 | On anelliptic approximations for qP velocities in VTI media. <i>Geophysical Prospecting</i> , 2004, 52, 247-259. | 1.0 | 142 |
| 18 | Stacking seismic data using local correlation. <i>Geophysics</i> , 2009, 74, V43-V48. | 1.4 | 140 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Velocity analysis using $\langle i \rangle AB \langle /i \rangle$ semblance. <i>Geophysical Prospecting</i> , 2009, 57, 311-321. | 1.0 | 134 |
| 20 | Building realistic structure models to train convolutional neural networks for seismic structural interpretation. <i>Geophysics</i> , 2020, 85, WA27-WA39. | 1.4 | 130 |
| 21 | Generalized nonhyperbolic moveout approximation. <i>Geophysics</i> , 2010, 75, U9-U18. | 1.4 | 128 |
| 22 | Fast sweeping method for the factored eikonal equation. <i>Journal of Computational Physics</i> , 2009, 228, 6440-6455. | 1.9 | 122 |
| 23 | Adaptive multiple subtraction using regularized nonstationary regression. <i>Geophysics</i> , 2009, 74, V25-V33. | 1.4 | 121 |
| 24 | SaltSeg: Automatic 3D salt segmentation using a deep convolutional neural network. <i>Interpretation</i> , 2019, 7, SE113-SE122. | 0.5 | 121 |
| 25 | Viscoacoustic modeling and imaging using low-rank approximation. <i>Geophysics</i> , 2015, 80, A103-A108. | 1.4 | 116 |
| 26 | Time- ϵ migration velocity analysis by velocity continuation. <i>Geophysics</i> , 2003, 68, 1662-1672. | 1.4 | 109 |
| 27 | Fast algorithms for elastic-wave-mode separation and vector decomposition using low-rank approximation for anisotropic media. <i>Geophysics</i> , 2014, 79, C97-C110. | 1.4 | 108 |
| 28 | Velocity-independent time-domain seismic imaging using local event slopes. <i>Geophysics</i> , 2007, 72, S139-S147. | 1.4 | 107 |
| 29 | Separation, imaging, and velocity analysis of seismic diffractions using migrated dip-angle gathers. , 2008, , . | | 105 |
| 30 | Flattening without picking. <i>Geophysics</i> , 2006, 71, P13-P20. | 1.4 | 104 |
| 31 | 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 |
| 32 | Q-compensated least-squares reverse time migration using low-rank one-step wave extrapolation. <i>Geophysics</i> , 2016, 81, S271-S279. | 1.4 | 97 |
| 33 | 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 |
| 34 | Azimuth moveout for 3-D prestack imaging. <i>Geophysics</i> , 1998, 63, 574-588. | 1.4 | 96 |
| 35 | Guest Editors' Introduction: Reproducible Research. <i>Computing in Science and Engineering</i> , 2009, 11, 5-7. | 1.2 | 91 |
| 36 | Separation and imaging of seismic diffractions using plane-wave decomposition. , 2006, , . | | 89 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 37 | Time-frequency analysis of seismic data using local attributes. <i>Geophysics</i> , 2011, 76, P23-P34. | 1.4 | 88 |
| 38 | Seismic data analysis using local time-frequency decomposition. <i>Geophysical Prospecting</i> , 2013, 61, 516-525. | 1.0 | 86 |
| 39 | EMD-seislet transform. <i>Geophysics</i> , 2018, 83, A27-A32. | 1.4 | 86 |
| 40 | Nonlinear structure-enhancing filtering using plane-wave prediction*. <i>Geophysical Prospecting</i> , 2010, 58, 415-427. | 1.0 | 84 |
| 41 | Convolutional neural networks for fault interpretation in seismic images. , 2018, , . | | 83 |
| 42 | A Bayesian approach to estimate uncertainty for full-waveform inversion using a priori information from depth migration. <i>Geophysics</i> , 2016, 81, R307-R323. | 1.4 | 82 |
| 43 | Velocity continuation and the anatomy of residual prestack time migration. <i>Geophysics</i> , 2003, 68, 1650-1661. | 1.4 | 77 |
| 44 | Seismic data interpolation beyond aliasing using regularized nonstationary autoregression. <i>Geophysics</i> , 2011, 76, V69-V77. | 1.4 | 76 |
| 45 | Automatic channel detection using deep learning. <i>Interpretation</i> , 2019, 7, SE43-SE50. | 0.5 | 75 |
| 46 | Seismic data decomposition into spectral components using regularized nonstationary autoregression. <i>Geophysics</i> , 2013, 78, O69-O76. | 1.4 | 74 |
| 47 | Nonstationary phase estimation using regularized local kurtosis maximization. <i>Geophysics</i> , 2009, 74, A75-A80. | 1.4 | 73 |
| 48 | Fast-phase space computation of multiple arrivals. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2002, 99, 7329-7334. | 3.3 | 72 |
| 49 | Time-lapse image registration using the local similarity attribute. <i>Geophysics</i> , 2009, 74, A7-A11. | 1.4 | 72 |
| 50 | Automatic salt-body classification using deep-convolutional neural network. , 2018, , . | | 71 |
| 51 | Automatic fault interpretation with optimal surface voting. <i>Geophysics</i> , 2018, 83, O67-O82. | 1.4 | 69 |
| 52 | Low-rank one-step wave extrapolation for reverse time migration. <i>Geophysics</i> , 2016, 81, S39-S54. | 1.4 | 67 |
| 53 | Path-integral seismic imaging. <i>Geophysical Prospecting</i> , 2006, 54, 491-503. | 1.0 | 66 |
| 54 | 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. | 0.9 | 64 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 55 | Least-squares horizons with local slopes and multigrid correlations. <i>Geophysics</i> , 2018, 83, IM29-IM40. | 1.4 | 62 |
| 56 | Regularizing seismic inverse problems by model reparameterization using plane-wave construction. <i>Geophysics</i> , 2006, 71, A43-A47. | 1.4 | 61 |
| 57 | Implementing the fast marching eikonal solver: spherical versus Cartesian coordinates. <i>Geophysical Prospecting</i> , 2001, 49, 165-178. | 1.0 | 59 |
| 58 | Building good starting models for full-waveform inversion using adaptive matching filtering misfit. <i>Geophysics</i> , 2016, 81, U61-U72. | 1.4 | 59 |
| 59 | Seismic velocity estimation from time migration. <i>Inverse Problems</i> , 2007, 23, 1329-1369. | 1.0 | 57 |
| 60 | On anelliptic approximations for qP velocities in transversely isotropic and orthorhombic media. <i>Geophysics</i> , 2015, 80, C89-C105. | 1.4 | 57 |
| 61 | Signal and noise separation in prestack seismic data using velocity-dependent seislet transform. <i>Geophysics</i> , 2015, 80, WD117-WD128. | 1.4 | 56 |
| 62 | Theory of 3D angle gathers in wave-equation imaging. , 2004, , . | | 56 |
| 63 | Riemannian wavefield extrapolation. <i>Geophysics</i> , 2005, 70, T45-T56. | 1.4 | 55 |
| 64 | Seismic data interpolation using CycleGAN. , 2019, , . | | 55 |
| 65 | Fourier finite-difference wave propagation. <i>Geophysics</i> , 2011, 76, T123-T129. | 1.4 | 54 |
| 66 | Seismic data interpolation using deep learning with generative adversarial networks. <i>Geophysical Prospecting</i> , 2021, 69, 307-326. | 1.0 | 54 |
| 67 | The space-time domain: theory and modelling for anisotropic media. <i>Geophysical Journal International</i> , 2001, 144, 105-113. | 1.0 | 53 |
| 68 | 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 |
| 69 | Seismic ground-roll noise attenuation using deep learning. <i>Geophysical Prospecting</i> , 2020, 68, 2064-2077. | 1.0 | 52 |
| 70 | Multidimensional recursive filter preconditioning in geophysical estimation problems. <i>Geophysics</i> , 2003, 68, 577-588. | 1.4 | 51 |
| 71 | Non-hyperbolic common reflection surface. <i>Geophysical Prospecting</i> , 2013, 61, 21-27. | 1.0 | 50 |
| 72 | Improving the resolution of migrated images by approximating the inverse Hessian using deep learning. <i>Geophysics</i> , 2020, 85, WA173-WA183. | 1.4 | 50 |

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|----|---|-----|-----------|
| 73 | Coordinate-independent angle-gathers for wave equation migration. , 2005, , . | | 49 |
| 74 | Deep learning for relative geologic time and seismic horizons. Geophysics, 2020, 85, WA87-WA100. | 1.4 | 47 |
| 75 | Accelerated plane-wave destruction. Geophysics, 2013, 78, V1-V9. | 1.4 | 46 |
| 76 | Lowrank seismic-wave extrapolation on a staggered grid. Geophysics, 2014, 79, T157-T168. | 1.4 | 45 |
| 77 | Waveform embedding: Automatic horizon picking with unsupervised deep learning. Geophysics, 2020, 85, WA67-WA76. | 1.4 | 45 |
| 78 | Time-to-depth conversion and seismic velocity estimation using time-migration velocity. Geophysics, 2008, 73, VE205-VE210. | 1.4 | 44 |
| 79 | Wave-equation angle-domain common-image gathers for converted waves. Geophysics, 2008, 73, S17-S26. | 1.4 | 44 |
| 80 | Diffraction imaging and time-migration velocity analysis using oriented velocity continuation. Geophysics, 2017, 82, U25-U35. | 1.4 | 44 |
| 81 | Accelerating full-waveform inversion with attenuation compensation. Geophysics, 2018, 83, A13-A20. | 1.4 | 43 |
| 82 | Amplitude-preserved common image gathers by wave-equation migration. , 2001, , . | | 41 |
| 83 | Automatic approaches for seismic to well tying. Interpretation, 2014, 2, SD9-SD17. | 0.5 | 41 |
| 84 | OC-seislet: Seislet transform construction with differential offset continuation. Geophysics, 2010, 75, WB235-WB245. | 1.4 | 40 |
| 85 | Seismic diffraction interpretation at Piceance Creek. Interpretation, 2015, 3, SF1-SF14. | 0.5 | 40 |
| 86 | A multistep approach to multicomponent seismic image registration with application to a West Texas carbonate reservoir study. , 2005, , . | | 39 |
| 87 | SCALODEEP: A Highly Generalized Deep Learning Framework for Real-Time Earthquake Detection. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021473. | 1.4 | 39 |
| 88 | 3-D traveltimes computation using Huygens wavefront tracing. Geophysics, 2001, 66, 883-889. | 1.4 | 38 |
| 89 | Investigating the possibility of locating microseismic sources using distributed sensor networks. , 2015, , . | | 38 |
| 90 | Full-waveform inversion of passive seismic data for sources and velocities. , 2016, , . | | 38 |

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| 91 | Structural uncertainty of time-migrated seismic images. Journal of Applied Geophysics, 2014, 101, 27-30. | 0.9 | 37 |
| 92 | Theory of differential offset continuation. Geophysics, 2003, 68, 718-732. | 1.4 | 36 |
| 93 | Full-waveform inversion using seislet regularization. Geophysics, 2017, 82, A43-A49. | 1.4 | 36 |
| 94 | Multicomponent seismic data registration by least squares. , 2003, , . | | 35 |
| 95 | Iterative resolution estimation in least-squares Kirchhoff migration. Geophysical Prospecting, 2002, 50, 577-588. | 1.0 | 34 |
| 96 | Seismic wave extrapolation using lowrank symbol approximation. , 2010, , . | | 32 |
| 97 | A fast butterfly algorithm for generalized Radon transforms. Geophysics, 2013, 78, U41-U51. | 1.4 | 32 |
| 98 | Selecting an optimal aperture in Kirchhoff migration using dip-angle images. Geophysics, 2013, 78, S243-S254. | 1.4 | 31 |
| 99 | Carbonate reservoir characterization using seismic diffraction imaging. Interpretation, 2015, 3, SF21-SF30. | 0.5 | 31 |
| 100 | 3D generalized nonhyperboloidal moveout approximation. Geophysics, 2017, 82, C49-C59. | 1.4 | 30 |
| 101 | First-break traveltome tomography with the double-square-root eikonal equation. Geophysics, 2013, 78, U89-U101. | 1.4 | 28 |
| 102 | Velocity-independent $\ddot{I}_{,p}$ moveout in a horizontally layered VTI medium. Geophysics, 2011, 76, U45-U57. | 1.4 | 27 |
| 103 | Omnidirectional plane-wave destruction. Geophysics, 2013, 78, V171-V179. | 1.4 | 26 |
| 104 | Data-driven time-frequency analysis of seismic data using non-stationary Prony method. Geophysical Prospecting, 2018, 66, 85-97. | 1.0 | 26 |
| 105 | Preconditioning least-squares RTM in viscoacoustic media by Q -compensated RTM. , 2015, , . | | 25 |
| 106 | A comparison of diffraction imaging to incoherence and curvature. The Leading Edge, 2016, 35, 86-89. | 0.4 | 25 |
| 107 | Predictive coherence. Interpretation, 2015, 3, SAE1-SAE7. | 0.5 | 24 |
| 108 | Elastic wavevector decomposition in heterogeneous anisotropic media. Geophysical Prospecting, 2017, 65, 1231-1245. | 1.0 | 24 |

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|-----|--|-----|-----------|
| 109 | Deep learning for velocity model building with common-image gather volumes. <i>Geophysical Journal International</i> , 2021, 228, 1054-1070. | 1.0 | 24 |
| 110 | Regularizing velocity estimation using geologic dip information. , 1998, , . | | 24 |
| 111 | Towards the seislet transform. , 2006, , . | | 23 |
| 112 | Waveâ€œequation commonâ€œangle gathers for converted waves. , 2005, , . | | 22 |
| 113 | Time-lapse seismic data registration and inversion for CO2 sequestration study at Cranfield. <i>Geophysics</i> , 2013, 78, B329-B338. | 1.4 | 22 |
| 114 | A robust approach to timeâ€œtoâ€œdepth conversion and interval velocity estimation from time migration in the presence of lateral velocity variations. <i>Geophysical Prospecting</i> , 2015, 63, 315-337. | 1.0 | 22 |
| 115 | Time-variant wavelet extraction with a local-attribute-based time-frequency decomposition for seismic inversion. <i>Interpretation</i> , 2017, 5, SC9-SC16. | 0.5 | 22 |
| 116 | Nonlinear shaping regularization in geophysical inverse problems. , 2008, , . | | 21 |
| 117 | Generalized nonelliptic moveout approximation in \ddot{l} ,-p domain. <i>Geophysics</i> , 2012, 77, U23-U30. | 1.4 | 21 |
| 118 | EMD-seislet transform. , 2015, , . | | 21 |
| 119 | Fast salt boundary interpretation with optimal path picking. <i>Geophysics</i> , 2018, 83, O45-O53. | 1.4 | 21 |
| 120 | Least-squares path-summation diffraction imaging using sparsity constraints. <i>Geophysics</i> , 2019, 84, S187-S200. | 1.4 | 21 |
| 121 | Generalized velocity approximation. <i>Geophysics</i> , 2019, 84, C27-C40. | 1.4 | 21 |
| 122 | Fractal heterogeneities in sonic logs and low-frequency scattering attenuation. <i>Geophysics</i> , 2009, 74, WA77-WA92. | 1.4 | 20 |
| 123 | Azimuthally Anisotropic 3D Velocity Continuation. <i>International Journal of Geophysics</i> , 2011, 2011, 1-8. | 0.4 | 20 |
| 124 | Stratigraphic coordinates: a coordinate system tailored to seismic interpretation. <i>Geophysical Prospecting</i> , 2015, 63, 1246-1255. | 1.0 | 20 |
| 125 | Full-waveform inversion using smoothing kernels. , 2016, , . | | 20 |
| 126 | Missing log data interpolation and semiautomatic seismic well ties using data matching techniques. <i>Interpretation</i> , 2019, 7, T347-T361. | 0.5 | 20 |

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|-----|---|-----|-----------|
| 127 | Analytical path-summation imaging of seismic diffractions. <i>Geophysics</i> , 2017, 82, S51-S59. | 1.4 | 19 |
| 128 | Moveout analysis by timeâ€warping. , 2009, , . | | 19 |
| 129 | Automatic channel detection using deep learning. , 2018, , . | | 19 |
| 130 | The Wilson-Burg method of spectral factorization with application to helical filtering. <i>Geophysical Prospecting</i> , 2003, 51, 409-420. | 1.0 | 18 |
| 131 | Reproducible Computational Experiments using Scons. , 2007, , . | | 18 |
| 132 | An eikonal-based formulation for traveltimes perturbation with respect to the source location. <i>Geophysics</i> , 2010, 75, T175-T183. | 1.4 | 18 |
| 133 | Imaging incomplete data and simultaneous-source data using least-squares reverse-time migration with shaping regularization. , 2014, , . | | 18 |
| 134 | Streaming prediction-error filters. , 2016, , . | | 18 |
| 135 | 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, . | 0.2 | 18 |
| 136 | Nonstationary phase estimation: A tool for seismic interpretation?. <i>The Leading Edge</i> , 2010, 29, 1020-1026. | 0.4 | 17 |
| 137 | Automatic traveltimes picking using instantaneous traveltimes. <i>Geophysics</i> , 2013, 78, T53-T58. | 1.4 | 17 |
| 138 | Automated spectral recomposition with application in stratigraphic interpretation. <i>Interpretation</i> , 2013, 1, SA109-SA116. | 0.5 | 17 |
| 139 | Local skewness attribute as a seismic phase detector. <i>Interpretation</i> , 2014, 2, SA49-SA56. | 0.5 | 17 |
| 140 | Q-compensated full-waveform inversion using constant-Q wave equation. , 2016, , . | | 17 |
| 141 | Postâ€stack velocity analysis by separation and imaging of seismic diffractions. , 2006, , . | | 17 |
| 142 | A MATLAB code package for 2D/3D local slope estimation and structural filtering. <i>Geophysics</i> , 2022, 87, F1-F14. | 1.4 | 17 |
| 143 | Realâ€time Earthquake Detection and Magnitude Estimation Using Vision Transformer. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, . | 1.4 | 17 |
| 144 | Image guided well log interpolation using predictive painting. , 2015, , . | | 16 |

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|-----|--|-----|-----------|
| 145 | 3D Microseismic Monitoring Using Machine Learning. Journal of Geophysical Research: Solid Earth, 2022, 127, . | 1.4 | 16 |
| 146 | 3D velocity-independent elliptically anisotropic moveout correction. Geophysics, 2009, 74, WB129-WB136. | 1.4 | 15 |
| 147 | Enhancing seismic data resolution using the prestack blueing technique: An example from the Ketzin CO ₂ injection site, Germany. Geophysics, 2010, 75, V101-V110. | 1.4 | 15 |
| 148 | Comparison of seismic diffraction imaging techniques: Plane wave destruction versus apex destruction. , 2013, , . | | 15 |
| 149 | Viscoacoustic modeling and imaging using low-rank approximation. , 2014, , . | | 15 |
| 150 | Matching and merging high-resolution and legacy seismic images. Geophysics, 2018, 83, V115-V122. | 1.4 | 15 |
| 151 | Overcoming numerical dispersion of finite-difference wave extrapolation using deep learning. , 2019, , . | | 15 |
| 152 | Implicit 3D depth migration by wavefield extrapolation with helical boundary conditions. , 1998, , . | | 15 |
| 153 | Relative geologic time estimation using a deep convolutional neural network. , 2019, , . | | 15 |
| 154 | Time-shift imaging condition for converted waves. , 2006, , . | | 14 |
| 155 | Time-domain seismic imaging using beams. , 2009, , . | | 14 |
| 156 | Recent advances in time-domain seismic imaging. , 2014, , . | | 14 |
| 157 | Seislet-based morphological component analysis using scale-dependent exponential shrinkage. Journal of Applied Geophysics, 2015, 118, 66-74. | 0.9 | 14 |
| 158 | Creating detailed subsurface models using predictive image-guided well-log interpolation. Interpretation, 2017, 5, T279-T285. | 0.5 | 14 |
| 159 | Plane-wave Sobel attribute for discontinuity enhancement in seismic images. Geophysics, 2017, 82, WB63-WB69. | 1.4 | 14 |
| 160 | Multicomponent seismic data registration for subsurface characterization in the shallow Gulf of Mexico. , 2003, , . | | 13 |
| 161 | Stacking angle-domain common-image gathers for normalization of illumination. Geophysical Prospecting, 2011, 59, 244-255. | 1.0 | 13 |
| 162 | Theory of 3-D angle gathers in wave-equation seismic imaging. Journal of Petroleum Exploration and Production, 2011, 1, 11-16. | 1.2 | 13 |

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|-----|---|-----|-----------|
| 163 | Kirchhoff migration using eikonal-based computation of traveltimes source derivatives. Geophysics, 2013, 78, S211-S219. | 1.4 | 13 |
| 164 | Low-rank one-step wave extrapolation. , 2013, , . | | 13 |
| 165 | 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 |
| 166 | Time-frequency characterization of seismic data using local attributes. , 2009, , . | | 12 |
| 167 | Diffraction velocity analysis by path-integral seismic imaging. , 2011, , . | | 12 |
| 168 | The basic components of residual migration in VTI media using anisotropy continuation. Journal of Petroleum Exploration and Production, 2011, 1, 17-22. | 1.2 | 12 |
| 169 | Mapping of moveout attributes using local slopes. Geophysical Prospecting, 2016, 64, 31-37. | 1.0 | 12 |
| 170 | Theory of interval traveltimes parameter estimation in layered anisotropic media. Geophysics, 2016, 81, C253-C263. | 1.4 | 12 |
| 171 | The modified generalized moveout approximation: a new parameter selection. Geophysical Prospecting, 2017, 65, 687-695. | 1.0 | 12 |
| 172 | Seismic time-lapse image registration using amplitude-adjusted plane-wave destruction. , 2016, , . | | 12 |
| 173 | Uncertainty estimation using Bayesian convolutional neural network for automatic channel detection. , 2020, , . | | 12 |
| 174 | Predictive painting of 3D seismic volumes. , 2008, , . | | 11 |
| 175 | Fractures Detection Using Multi-Azimuth Diffractions Focusing Measure: Is it Feasible?. , 2010, , . | | 11 |
| 176 | Shifted hyperbola moveout approximation revisited. Geophysical Prospecting, 2012, 60, 395-399. | 1.0 | 11 |
| 177 | Seismic data interpolation using plane-wave shaping regularization. , 2015, , . | | 11 |
| 178 | Diffraction imaging using azimuthal plane-wave destruction. , 2016, , . | | 11 |
| 179 | Predictive painting across faults. Interpretation, 2018, 6, T449-T455. | 0.5 | 11 |
| 180 | Fast time-to-depth conversion and interval velocity estimation in the case of weak lateral variations. Geophysics, 2018, 83, S227-S235. | 1.4 | 11 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 181 | The Slope-Attribute-Regularized High-Resolution Prestack Seismic Inversion. <i>Surveys in Geophysics</i> , 2021, 42, 625-671. | 2.1 | 11 |
| 182 | Nonstationary local signal-and-noise orthogonalization. <i>Geophysics</i> , 2021, 86, V409-V418. | 1.4 | 11 |
| 183 | Recursive integral time extrapolation of elastic waves using lowrank approximation. , 2016, , . | | 11 |
| 184 | Separating primaries and multiples using hyperbolic Radon transform with deep learning. , 2020, , . | | 11 |
| 185 | Split-step complex Padé Fourier depth migration. , 2004, , . | | 10 |
| 186 | An efficient workflow for path-integral imaging of seismic diffractions. , 2015, , . | | 10 |
| 187 | Migration-based passive-source imaging for continuous data. , 2016, , . | | 10 |
| 188 | Elastic wave-mode separation in heterogeneous anisotropic media using deep learning. , 2019, , . | | 10 |
| 189 | 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 |
| 190 | Relative time seislet transform. <i>Geophysics</i> , 2020, 85, V223-V232. | 1.4 | 10 |
| 191 | Deep learning parameterization for geophysical inverse problems. , 2020, , . | | 10 |
| 192 | Uncertainty and interpretability analysis of encoder-decoder architecture for channel detection. <i>Geophysics</i> , 2021, 86, O49-O58. | 1.4 | 10 |
| 193 | Time-shift imaging condition. , 2005, , . | | 10 |
| 194 | Seismic velocity estimation and time to depth conversion of time-migrated images. , 2006, , . | | 9 |
| 195 | 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. | 1.9 | 9 |
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