

# Jörg Schleicher

## List of Publications by Year in descending order

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146  
papers

2,091  
citations

270111

25  
h-index

286692

43  
g-index

147  
all docs

147  
docs citations

147  
times ranked

698  
citing authors

#	ARTICLE	IF	CITATIONS
1	3-D true-amplitude finite-offset migration. <i>Geophysics</i> , 1993, 58, 1112-1126.	1.4	200
2	A unified approach to 3-D seismic reflection imaging, Part I: Basic concepts. <i>Geophysics</i> , 1996, 61, 742-758.	1.4	119
3	Minimum apertures and Fresnel zones in migration and demigration. <i>Geophysics</i> , 1997, 62, 183-194.	1.4	113
4	PARABOLIC AND HYPERBOLIC PARAXIAL TWO-POINT TRAVELTIMES IN 3D MEDIA1. <i>Geophysical Prospecting</i> , 1993, 41, 495-513.	1.0	103
5	A unified approach to 3-D seismic reflection imaging, Part II: Theory. <i>Geophysics</i> , 1996, 61, 759-775.	1.4	86
6	Pulse distortion in depth migration. <i>Geophysics</i> , 1994, 59, 1561-1569.	1.4	84
7	Seismic Image Waves. <i>Geophysical Journal International</i> , 1996, 125, 431-442.	1.0	82
8	A comparison of imaging conditions for wave-equation shot-profile migration. <i>Geophysics</i> , 2008, 73, S219-S227.	1.4	77
9	Data stacking beyond CMP. <i>The Leading Edge</i> , 2007, 26, 818-827.	0.4	63
10	On the estimation of local slopes. <i>Geophysics</i> , 2009, 74, P25-P33.	1.4	58
11	Determination of Fresnel zones from traveltime measurements. <i>Geophysics</i> , 1993, 58, 703-712.	1.4	57
12	Automatic detection and imaging of diffraction points using pattern recognition. <i>Geophysical Prospecting</i> , 2013, 61, 368-379.	1.0	53
13	Eigenwave based multiparameter traveltime expansions. , 1997, , .		50
14	Obliquity-correction imaging condition for reverse time migration. <i>Geophysics</i> , 2009, 74, S57-S66.	1.4	50
15	Multiple weights in diffraction stack migration. <i>Geophysics</i> , 1993, 58, 1820-1830.	1.4	45
16	2.5-D true-amplitude Kirchhoff migration to zero offset in laterally inhomogeneous media. <i>Geophysics</i> , 1998, 63, 557-573.	1.4	44
17	Wide-angle FD and FFD migration using complex Padé approximations. <i>Geophysics</i> , 2007, 72, S215-S220.	1.4	39
18	The Kirchhoff-Helmholtz integral for anisotropic elastic media. <i>Wave Motion</i> , 2001, 34, 353-364.	1.0	34

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19	Migration velocity analysis by double path-integral migration. <i>Geophysics</i> , 2009, 74, WCA225-WCA231.	1.4	34
20	Seismic modeling by demigration. <i>Geophysics</i> , 2000, 65, 1281-1289.	1.4	30
21	Aperture effects in 2.5D Kirchhoff migration: A geometrical explanation. <i>Geophysics</i> , 2003, 68, 1673-1684.	1.4	30
22	Time-migration velocity analysis by image-wave propagation of common-image gathers. <i>Geophysics</i> , 2008, 73, VE161-VE171.	1.4	30
23	GPR velocity determination by image-wave remigration. <i>Journal of Applied Geophysics</i> , 2008, 65, 65-72.	0.9	29
24	Traveltime approximations for qP waves in vertical transversely isotropy media*. <i>Geophysical Prospecting</i> , 2010, 58, 191-201.	1.0	28
25	Shear wave anisotropy from aligned inclusions: ultrasonic frequency dependence of velocity and attenuation. <i>Geophysical Journal International</i> , 2013, 193, 475-488.	1.0	28
26	True-amplitude migration of 2D synthetic data1. <i>Geophysical Prospecting</i> , 1994, 42, 445-462.	1.0	27
27	Estimating fracture orientation from elastic wave propagation: An ultrasonic experimental approach. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
28	Geometrical spreading corrections of offset reflections in a laterally inhomogeneous earth. <i>Geophysics</i> , 1992, 57, 1054-1063.	1.4	21
29	Migration velocity analysis using residual diffraction moveout in the poststack depth domain. <i>Geophysics</i> , 2013, 78, S125-S135.	1.4	19
30	A separable strong-anisotropy approximation for pure qP-wave propagation in transversely isotropic media. <i>Geophysics</i> , 2016, 81, C337-C354.	1.4	19
31	Three-dimensional primary zero-offset reflections. <i>Geophysics</i> , 1993, 58, 692-702.	1.4	18
32	Migration velocity analysis by depth image-wave remigration: first results. <i>Geophysical Prospecting</i> , 2004, 52, 559-573.	1.0	18
33	Dip correction for coherence-based time migration velocity analysis. <i>Geophysics</i> , 2007, 72, S41-S48.	1.4	18
34	On the source-frequency dependence of fracture-orientation estimates from shear-wave transmission experiments. <i>Journal of Applied Geophysics</i> , 2015, 114, 81-100.	0.9	18
35	Seismic constant-velocity remigration. <i>Geophysics</i> , 1997, 62, 589-597.	1.4	16
36	Time and depth remigration in elliptically anisotropic media using image-wave propagation. <i>Geophysics</i> , 2007, 72, S1-S9.	1.4	14

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37	Regularization in slope tomography. <i>Geophysics</i> , 2008, 73, VE39-VE47.	1.4	14
38	Migration velocity analysis using residual diffraction moveout: a real-data example. <i>Journal of Geophysics and Engineering</i> , 2016, 13, 622-633.	0.7	11
39	Colored and linear inversions to relative acoustic impedance. <i>Geophysics</i> , 2019, 84, N15-N27.	1.4	11
40	Multifocus moveout revisited: derivations and alternative expressions. <i>Journal of Applied Geophysics</i> , 1999, 42, 319-331.	0.9	10
41	Controlling amplitudes in 2.5D common-shot migration to zero offset. <i>Geophysics</i> , 2004, 69, 1299-1310.	1.4	10
42	Fast estimation of common-reflection-surface parameters using local slopes. <i>Geophysics</i> , 2011, 76, U23-U34.	1.4	10
43	On the elastic wave equation in weakly anisotropic VTI media. <i>Geophysical Journal International</i> , 2013, 192, 1144-1155.	1.0	10
44	Modeling, migration, and demigration. <i>The Leading Edge</i> , 2000, 19, 712-715.	0.4	9
45	Anisotropic complex Padé hybrid finite-difference depth migration. <i>Geophysics</i> , 2010, 75, S51-S59.	1.4	9
46	True-amplitude single-stack redatuming. <i>Journal of Applied Geophysics</i> , 2014, 105, 95-111.	0.9	9
47	Estimation of quality factor based on peak frequency-shift method and redatuming operator: Application in real data set. <i>Geophysics</i> , 2017, 82, N1-N12.	1.4	9
48	Geometrical spreading and ray-acoustic decomposition of elementary seismic waves. <i>Geophysics</i> , 1995, 60, 1195-1202.	1.4	8
49	To: A unified approach to 3-D seismic reflection imaging, Part II: Theory (M. Tygel, J. Schleicher, and P.) <i>Tj ETQq1 1 0.784314 rg</i>	1.4	8
50	The common reflecting element (CRE) method revisited. <i>Geophysics</i> , 2000, 65, 979-993.	1.4	7
51	2.5D reverse-time migration. <i>Geophysics</i> , 2011, 76, S143-S149.	1.4	7
52	Offset-continuation stacking: Theory and proof of concept. <i>Geophysics</i> , 2016, 81, V387-V401.	1.4	7
53	Reverse time migration using phase crosscorrelation. <i>Geophysics</i> , 2018, 83, S345-S354.	1.4	7
54	Resolution analysis for stereotomography in media with elliptic and anelliptic anisotropy. <i>Geophysics</i> , 2008, 73, R49-R58.	1.4	6

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55	Offset continuation (OCO) ray tracing using OCO trajectories. <i>Studia Geophysica Et Geodaetica</i> , 2012, 56, 65-82.	0.3	6
56	A separable strong-anisotropy approximation for pure qP wave propagation in TI media. , 2015, , .		6
57	Nonspecular reflections from a curved interface. <i>Geophysics</i> , 1991, 56, 1203-1214.	1.4	5
58	Kirchhoff imaging as a tool for AVO/AVA analysis. <i>The Leading Edge</i> , 1999, 18, 940-945.	0.4	5
59	Prestack time-migration velocity analysis using remigration trajectories. <i>Geophysics</i> , 2015, 80, S151-S163.	1.4	5
60	An asymptotic inverse to the Kirchhoff-Helmholtz integral. <i>Inverse Problems</i> , 2000, 16, 425-445.	1.0	4
61	Sensitivity Analysis for Stereotomography in Elliptic and Anelliptic Media. , 2006, , .		4
62	Vertical image waves in elliptically anisotropic media. <i>Studia Geophysica Et Geodaetica</i> , 2008, 52, 101-122.	0.3	4
63	Including lateral velocity variations into true-amplitude common-shot wave-equation migration. <i>Geophysics</i> , 2010, 75, S175-S186.	1.4	4
64	Time-to-depth conversion and velocity estimation by wavefront-propagation. , 2015, , .		4
65	Time-to-depth conversion and velocity estimation by image-wavefront propagation. <i>Geophysics</i> , 2017, 82, U75-U85.	1.4	4
66	Interferometric redatuming by deconvolution and correlation-based focusing. <i>Geophysics</i> , 2021, 86, Q1-Q13.	1.4	4
67	On the estimation of local slopes. , 2008, , .		4
68	Robust Time-domain Migration Velocity Analysis Methods for Initial-model Building in a Full Waveform Tomography Workflow. , 2016, , .		4
69	Double path-integral migration velocity analysis: a real data example. <i>Journal of Geophysics and Engineering</i> , 2011, 8, 154-161.	0.7	3
70	A Comparison of Splitting Techniques for 3D Complex PadÃ© Fourier Finite Difference Migration. <i>International Journal of Geophysics</i> , 2011, 2011, 1-12.	0.4	3
71	Scattering-based sensitivity kernels for time-lapse differential-waveform inversion. , 2013, , .		3
72	Initial-model Construction for MVA Techniques. , 2013, , .		3

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73	<title>Amplitude-preserving migration by weighted diffraction stacks</title>. , 1993, 2033, 97.		2
74	Velocity determination by imageâ€wave remigration. , 2006, , .		2
75	A comparison of imaging conditions for waveâ€equation shotâ€profile migration. , 2007, , .		2
76	Iterative methods for 3D implicit finite-difference migration using the complex PadÃ© approximation. Journal of Geophysics and Engineering, 2013, 10, 045011.	0.7	2
77	Theory of Offset-Continuation Trajectory Stack. , 2013, , .		2
78	Reduction of crosstalk in blended-shot migration. Geophysics, 2015, 80, S31-S41.	1.4	2
79	Robust time-domain migration velocity analysis for initial-model building in a full-waveform tomography workflow. , 2016, , .		2
80	Limitations of correlation-based redatuming methods. Journal of Geophysics and Engineering, 2017, 14, 1582-1598.	0.7	2
81	Introduction of the Hessian in joint migration inversion and improved recovery of structural information using image-based regularization. Geophysics, 2021, 86, R777-R793.	1.4	2
82	Time migration velocity analysis by imageâ€wave propagation of commonâ€image gathers. , 2008, , .		2
83	Global Optimization for AVO Inversion - A Genetic Algorithm Using a Table-based Ray-theory Algorithm. , 2016, , .		2
84	A frequency criterion for optimal node selection in smoothing with cubic splines. Geophysical Prospecting, 2008, 56, 229-237.	1.0	1
85	Regularization in slope tomography. , 2008, , .		1
86	A comparison of semblances of different order in common-reflection-surface parameter estimation. Journal of Geophysics and Engineering, 2011, 8, 175-184.	0.7	1
87	Three-Dimensional Complex PadÃ© FD Migration: Splitting and Corrections. International Journal of Geophysics, 2012, 2012, 1-14.	0.4	1
88	Coherence measures in automatic time-migration velocity analysis. Journal of Geophysics and Engineering, 2012, 9, 569-584.	0.7	1
89	Global optimization for AVO inversion: A genetic algorithm using a table-based ray-theory algorithm. , 2016, , .		1
90	Optimization of the parameters in complex PadÃ© Fourier finite-difference migration. Geophysics, 2017, 82, S259-S269.	1.4	1

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91	Image-guided ray tracing and its applications. <i>Geophysics</i> , 2021, 86, U39-U47.	1.4	1
92	Anisotropic Born scattering for the qP scalar wavefield using a low-rank symbol approximation. <i>Geophysics</i> , 2021, 86, T337-T348.	1.4	1
93	Offset-independent resolution of seismic migration. , 2001, , .		1
94	Wide-angle FD and FFD migration using complex Padé approximations. , 2007, , .		1
95	Offset-continuation trajectory stack. , 2013, , .		1
96	Stacking on OCO Trajectories. , 2013, , .		1
97	True-amplitude diffraction-stack redatuming. , 2007, , .		1
98	Obliquity correction for reverse time migration. , 2008, , .		1
99	Geometrical spreading correction by a dual diffraction stack. <i>Geophysics</i> , 1993, 58, 1870-1873.	1.4	1
100	2D Poststack Seismic Data Inversion with Curvelet Denoising Preconditioning. , 2017, , .		1
101	<title>Amplitude-preserving MZO in laterally inhomogeneous media</title>. , 1996, , .		0
102	Analysis of an acoustic wave equation for media with cylindrical symmetry (2.5â€D). , 1999, , .		0
103	THE KIRCHHOFFâ€HELMHOLTZ INTEGRAL PAIR. <i>Journal of Computational Acoustics</i> , 2001, 09, 1383-1394.	1.0	0
104	Controlling amplitude in 2.5â€D commonâ€shot migration to zero offset. , 2004, , .		0
105	Dip-correction for coherence-based migration velocity analysis. , 2005, , .		0
106	A frequency criterion for smoothing with optimal cubic splines. , 2006, , .		0
107	Mathematical Modelling and Mathematical Methods in Energy. <i>Numerical Linear Algebra With Applications</i> , 2007, 14, 255-255.	0.9	0
108	Estudo de formas implementacionais da equaÃ§Ã£o da onda imagem para remigraÃ§Ã£o em profundidade. <i>Revista Brasileira De Geofisica</i> , 2008, 26, 493-504.	0.2	0

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109	Evaluation of time to depth conversion algorithms for depth velocity model building. , 2009, , .		0
110	3D Complex Pad� FFD migration: A comparison of splitting techniques. , 2011, , .		0
111	Coherence measures in automatic time migration velocity analysis. , 2011, , .		0
112	Iterative methods for 3D implicit finite-difference migration using the complex Pad� approximation. , 2011, , .		0
113	Estimation of fracture orientation through elastic ultrasonic waves. , 2012, , .		0
114	Experimental relations between stress and fracture properties on synthetic anisotropic media. , 2012, , .		0
115	Interferometric redatuming using direct wavefield modeling. , 2013, , .		0
116	Reduction of crosstalk in blended-shot migration. , 2013, , .		0
117	Use of 3D gravity inversion to aid seismic migration-velocity building. , 2015, , .		0
118	Migration velocity analysis using time-remigration trajectory: regions with strong velocity variations. , 2015, , .		0
119	Optimization of the parameters in complex Pad� Fourier finite-difference migration. , 2016, , .		0
120	Deconvolution and correlation-based interferometric redatuming by wavefield inversion. , 2017, , .		0
121	Offset-Dependent Resolution Of Seismic Migration. , 2001, , .		0
122	On the aperture effects in 2.5� Kirchhoff migration. , 2002, , .		0
123	Migration velocity analysis by depth image�wave remigration: First results. , 2004, , .		0
124	Vertical image waves in elliptically anisotropic media. , 2007, , .		0
125	Estudo de formas implementacionais da equa�o da onda imagem para remigra�o na profundidade. , 2007, , .		0
126	Fourth-Order Statistics for Parameter Estimation. , 2009, , .		0



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127	2.5D True-amplitude diffraction-stack redatuming: numerical tests. , 2009, , .		0
128	2.5D Reverse Time Migration. , 2010, , .		0
129	Including lateral velocity variations into true-amplitude common-shot wave-equation migration. , 2010, , .		0
130	3D complex Padé FFD migration: A comparison of splitting techniques. , 2011, , .		0
131	Coherence measures in automatic time migration velocity analysis. , 2011, , .		0
132	Finite-difference migration by wave extrapolation in three dimensions. , 2011, , .		0
133	A comparison of stabilized least-squares imaging conditions for wave-equation migration. , 2011, , .		0
134	2.5D Reverse time migration. , 2011, , .		0
135	A spatial approximation for the Li correction. , 2013, , .		0
136	On the Helmholtz Decomposition in Weakly Anisotropic VTI Media. , 2013, , .		0
137	A spatial approximation for the Li correction. , 2013, , .		0
138	Reply by the authors to the discussion by Gijs J. O. Vermeer. Geophysics, 1995, 60, 922-923.	1.4	0
139	Reply by the authors to Arthur E. Barnes. Geophysics, 1995, 60, 1944-1946.	1.4	0
140	2.5D Kirchoff MZO in laterally inhomogeneous media. , 1996, , .		0
141	Remigration-trajectory Time-migration Velocity Analysis in Regions with Strong Velocity Variations. , 2015, , .		0
142	A Wavefront-propagation Strategy for Time-to-depth Conversion. , 2015, , .		0
143	Pure qP-wave propagation in VTI media. , 2015, , .		0
144	High-resolution velocity spectra by minimum semblance. , 2016, , .		0

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145	Robust implementation of MVA by double path-integral migration. , 2019, , .		0
146	Procedural strategies for depth-migration velocity analysis by image-wave propagation in common-image gathers. , 2019, , .		0