List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Seismic source location with time-reversal and maximum-amplitude path for sparse and small-aperture acquisitions. Geophysics, 2022, 87, KS113-KS123.	1.4	1
2	Wavefield decomposition for diffraction separation with convolutional neural networks. , 2021, , .		5
3	Categorizing and correlating diffractivity attributes with seismic-reflection attributes using autoencoder networks. Geophysics, 2020, 85, 059-070.	1.4	7
4	Recent Advances and Challenges of Waveformâ€Based Seismic Location Methods at Multiple Scales. Reviews of Geophysics, 2020, 58, e2019RG000667.	9.0	105
5	Velocity inversion and scatterer detection with 3D P-Cable data. , 2020, , .		2
6	Source localization and joint velocity model building using wavefront attributes. Geophysical Journal International, 2019, 219, 995-1007.	1.0	14
7	Waveform-based microseismic location using stochastic optimization algorithms: A parameter tuning workflow. Computers and Geosciences, 2019, 124, 115-127.	2.0	15
8	On the role of diffractions in velocity model building: a full-waveform inversion example. Studia Geophysica Et Geodaetica, 2019, 63, 538-553.	0.3	4
9	Reliability of data-driven wavefront attributes in laterally heterogeneous media. Geophysics, 2019, 84, O49-O62.	1.4	1
10	Unsupervised event identification and tagging for diffraction focusing. Geophysical Journal International, 2019, 217, 2165-2176.	1.0	20
11	3-D seismic imaging in crystalline rock environments: An approach based on diffraction focusing. Journal of Applied Geophysics, 2019, 165, 49-59.	0.9	2
12	Velocity-estimation improvements and migration/demigration using the common-reflection surface with continuing deconvolution in the time domain. Geophysics, 2019, 84, S229-S238.	1.4	4
13	Using seismic diffractions for assessment of tectonic overprint and fault interpretation. Geophysics, 2019, 84, IM1-IM9.	1.4	10
14	Identification and focusing of edge diffractions with wavefront attributes. , 2019, , .		2
15	Improving focusing and estimation of excitation time for passive seismic events: Sparse and limited-aperture data examples. , 2019, , .		2
16	Wavefront attributes in anisotropic media. Geophysical Journal International, 2018, 214, 430-443.	1.0	4
17	A systematic analysis of correlation-based seismic location methods. Geophysical Journal International, 2018, 212, 659-678.	1.0	22
18	Common-reflection-surface-based prestack diffraction separation and imaging. Geophysics, 2018, 83, S47-S55.	1.4	55

DIRK GAJEWSKI

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19	Diffraction separation based on the projected first Fresnel zone. Journal of Geophysics and Engineering, 2018, 15, 2507-2515.	0.7	12
20	Parameter tuning of differential evolution algorithm for microseismic location. , 2018, , .		1
21	3D wavefront attribute determination and conflicting dip processing. Geophysics, 2018, 83, V325-V343.	1.4	7
22	Simultaneous model building and source localization: A 3D synthetic case study. , 2018, , .		1
23	Velocity model building by geometrical spreading focusing. , 2018, , .		2
24	An unsupervised strategy for the global tagging of individual diffractions. , 2018, , .		0
25	Wavefront-attribute estimation for 3D laterally heterogeneous media. , 2018, , .		0
26	Wavefront tomography with diffraction-only 3D P-cable data. , 2018, , .		1
27	Utilizing diffractions in wavefront tomography. Geophysics, 2017, 82, R65-R73.	1.4	50
28	A competitive comparison of multiparameter stacking operators. Geophysics, 2017, 82, V275-V283.	1.4	16
29	Determination of wavefront attributes by differential evolution in the presence of conflicting dips. Geophysics, 2017, 82, V229-V239.	1.4	25
30	The two faces of NMO. The Leading Edge, 2017, 36, 512-517.	0.4	7
31	A generalized view on normal moveout. Geophysics, 2017, 82, V335-V349.	1.4	14
32	Wavefront tomography by dynamic focusing. , 2017, , .		0
33	Accessing the diffracted wavefield by coherent subtraction. Geophysical Journal International, 2017, 211, 45-49.	1.0	53
34	5-D interpolation with wave-front attributes. Geophysical Journal International, 2017, 211, 897-919.	1.0	25
35	Simultaneous estimation of the 3D CRS attributes by an evolutionary-based Nelder–Mead algorithm. , 2016, , .		6
36	Conflicting dips and hard-rock environments: A CRS land data case study. , 2016, , .		0

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37	Interpolation and regularization with the 3D CRS operator. , 2016, , .		7
38	Enhancement of prestack diffraction data and attributes using a traveltime decomposition approach. Studia Geophysica Et Geodaetica, 2016, 60, 471-486.	0.3	21
39	Passive seismic source localization via common-reflection-surface attributes. Studia Geophysica Et Geodaetica, 2016, 60, 531-546.	0.3	29
40	Improving the resolution of wavefront tomography by utilizing diffractions. , 2016, , .		1
41	Prestack diffraction enhancement using a traveltime decomposition approach. , 2015, , .		3
42	3-D Time migration velocity model building using CRS-based pre-stack diffraction separation. , 2015, , .		1
43	Application of the 3D commonâ€reflectionâ€surface stack workflow in a crystalline rock environment. Geophysical Prospecting, 2015, 63, 990-998.	1.0	15
44	Data-driven time migration using a multiparameter approach. , 2015, , .		0
45	Common-reflection-surface stack improvement by differential evolution and conflicting dip processing. , 2015, , .		7
46	A zero-offset picking approach for pre-stack multiple attenuation. , 2015, , .		0
47	Curvatures and inhomogeneities: An improved common-reflection-surface approach. Geophysics, 2014, 79, S231-S240.	1.4	53
48	Imageâ€ray Tomography. Geophysical Prospecting, 2014, 62, 413-426.	1.0	13
49	Common reflection surface (CRS) based pre-stack diffraction separation. , 2014, , .		13
50	Seismic anisotropy in oil and gas exploration and development — Introduction. Geophysics, 2013, 78, WC1-WC2.	1.4	1
51	Diffraction traveltime approximation for general anisotropic media. Geophysics, 2013, 78, WC15-WC23.	1.4	8
52	True-amplitude Kirchhoff depth migration in anisotropic media: The traveltime-based approach. Geophysics, 2013, 78, WC33-WC39.	1.4	8
53	Prestack time migration by common-migrated-reflector-element stacking. Geophysics, 2012, 77, S73-S82.	1.4	15
54	Common-reflection-surface-based workflow for diffraction imaging. Geophysics, 2011, 76, S187-S195.	1.4	179

4

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55	From time to depth with CRS attributes. Geophysics, 2011, 76, S151-S155.	1.4	11
56	Diffraction imaging based on Commonâ \in Reflectionâ \in Surface attributes. , 2011, , .		1
57	An automatic time imaging using Common Scatter Point gathers. , 2010, , .		2
58	Structure and evolution of the Northeastern German Basin and its transition onto the Baltic Shield. Marine and Petroleum Geology, 2010, 27, 923-938.	1.5	22
59	Localization of seismic events in 3D media by diffraction stacking. , 2010, , .		11
60	Prestack seismic data enhancement with partial common-reflection-surface (CRS) stack. Geophysics, 2009, 74, V49-V58.	1.4	102
61	Reprocessing of deep seismic reflection data from the North German Basin with the Common Reflection Surface stack. Tectonophysics, 2009, 472, 273-283.	0.9	13
62	Revisiting the structural setting of the Glueckstadt Graben salt stock family, North German Basin. Tectonophysics, 2009, 470, 162-172.	0.9	13
63	Application of Snell's law in weakly anisotropic media. Geophysics, 2009, 74, WB147-WB152.	1.4	7
64	Influence of models on seismic-event localization. Geophysics, 2009, 74, WB55-WB61.	1.4	9
65	A workflow for the processing of reflection seismic data with CRS attributes. , 2009, , .		Ο
66	New insights into the crustal structure of the North German Basin from reprocessing of seismic reflection data using the Common Reflection Surface stack. International Journal of Earth Sciences, 2008, 97, 887-898.	0.9	7
67	Sedimentary basin evolution: subsidence, salt dynamics, fluid flow and deformation. International Journal of Earth Sciences, 2008, 97, 883-886.	0.9	Ο
68	Comparison of prestack stereotomography and NIP wave tomography for velocity model building: Instances from the Messinian evaporites. Geophysics, 2008, 73, VE291-VE302.	1.4	18
69	A multiple suppression method via CRS attributes. , 2008, , .		14
70	Seismic data enhancement with common reflection surface (CRS) stack method. , 2008, , .		3
71	Basin evolution of the northern part of the Northeast German Basin — Insights from a 3D structural model. Tectonophysics, 2007, 437, 1-16.	0.9	47
72	The Levantine Basin—crustal structure and origin. Tectonophysics, 2006, 418, 167-188.	0.9	102

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73	Traveltime-based true-amplitude migration. Geophysics, 2006, 71, S251-S259.	1.4	9
74	Second-order interpolation of later-arrival traveltimes. Geophysical Prospecting, 2006, 54, 167-176.	1.0	1
75	The structural evolution of the Messinian evaporites in the Levantine Basin. Marine Geology, 2006, 230, 249-273.	0.9	96
76	Reverse modelling for seismic event characterization. Geophysical Journal International, 2005, 163, 276-284.	1.0	213
77	Traveltime computation by wavefront-orientated ray tracing. Geophysical Prospecting, 2005, 53, 23-36.	1.0	13
78	The Mesozoic–Cenozoic structural framework of the Bay of Kiel area, western Baltic Sea. International Journal of Earth Sciences, 2005, 94, 1070-1082.	0.9	20
79	Dynamics of sedimentary basins: the example of the Central European Basin system. International Journal of Earth Sciences, 2005, 94, 779-781.	0.9	12
80	Seismic velocities from the Yaquina forearc basin off Peru: evidence for free gas within the gas hydrate stability zone. International Journal of Earth Sciences, 2005, 94, 420-432.	0.9	22
81	Salt tectonics off northern Israel. Marine and Petroleum Geology, 2005, 22, 597-611.	1.5	80
82	Variation of the present-day stress field within the North German Basin—insights from thin shell FE modeling based on residual GPS velocities. Tectonophysics, 2005, 397, 55-72.	0.9	40
83	Seismic study of pull-apart-induced sedimentation and deformation in the Northern Gulf of Aqaba (Elat). Tectonophysics, 2005, 396, 59-79.	0.9	42
84	Conrad Deep, Northern Red Sea: Development of an early stage ocean deep within the axial depression. Tectonophysics, 2005, 411, 19-40.	0.9	22
85	Application of sectorially bestâ€fitting isotropic background media. , 2004, , .		1
86	Imaging of complex basin structures with the common reflection surface (CRS) stack method. Geophysical Journal International, 2004, 157, 1206-1216.	1.0	28
87	Determination of sectorially bestâ \in fitting isotropic background media. , 2004, , .		2
88	Trueâ \in amplitude migration â \in " the traveltimeâ \in based strategy. , 2004, , .		0
89	Determination of geometrical spreading from traveltimes. Journal of Applied Geophysics, 2003, 54, 391-400.	0.9	19
90	Traveltime computation for 3D anisotropic media by a finite-difference perturbation method. Geophysical Prospecting, 2003, 51, 431-441.	1.0	8

DIRK GAJEWSKI

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91	Crustal-scale pop-up structure in cratonic lithosphere: DOBRE deep seismic reflection study of the Donbas fold belt, Ukraine. Geology, 2003, 31, 733.	2.0	78
92	3â€D wavefrontâ€oriented ray tracing: Estimation of traveltimes within cells. , 2002, , .		0
93	True Amplitude Migration Weights from Travel Times. Pure and Applied Geophysics, 2002, 159, 1583-1599.	0.8	3
94	Second-order interpolation of traveltimes. Geophysical Prospecting, 2002, 50, 73-83.	1.0	27
95	Amplitude Preserving Kirchhoff Migration: A Traveltime Based Strategy. Studia Geophysica Et Geodaetica, 2002, 46, 193-211.	0.3	10
96	True Amplitude Migration Weights from Travel Times. , 2002, , 1583-1599.		1
97	Traveltime interpolation for Kirchhoff migration in anisotropic media. , 2002, , .		0
98	Determining geometrical spreading from traveltimes in anisotropic media. , 2002, , .		0
99	Reference ellipsoids for anisotropic media. Geophysical Prospecting, 2001, 49, 321-334.	1.0	6
100	Traveltime based true amplitude migration of PS converted wave. , 2001, , .		13
101	Determining the optimum migration aperture from traveltimes. , 2001, , .		1
102	3â€D multiâ€valued traveltime computation using a hybrid method. , 2000, , .		1
103	Comparison of six different methods for calculating traveltimes. Geophysical Prospecting, 1999, 47, 269-297.	1.0	40
104	An Attempt to Integrate Reflection Seismics and Balanced Profiles. Pure and Applied Geophysics, 1999, 156, 207-232.	0.8	0
105	Quasi-isotropic approximation of ray theory for anisotropic media. Geophysical Journal International, 1998, 132, 643-653.	1.0	12
106	Efficient finite-difference modelling of seismic waves using locally adjustable time steps. Geophysical Prospecting, 1998, 46, 603-616.	1.0	40
107	Traveltime computation by perturbation with FD-eikonal solvers in isotropic and weakly anisotropic media. Geophysics, 1998, 63, 1066-1078.	1.4	22
108	Anisotropic reflection coefficients for a weak-contrast interface. Geophysical Journal International, 1998, 132, 159-166.	1.0	33

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109	On the computation of the trueâ€amplitude weighting functions. Geophysics, 1998, 63, 1648-1651.	1.4	2
110	Polarization, phase velocity, and NMO velocity of qP-waves in arbitrary weakly anisotropic media. Geophysics, 1998, 63, 1754-1766.	1.4	107
111	Pâ€wave AVAZ for inclined parallel fractures. , 1998, , .		0
112	Trueâ€amplitude commonâ€shot migration revisited. Geophysics, 1997, 62, 1250-1259.	1.4	6
113	Reflection coefficients for weak anisotropic media. Geophysical Journal International, 1997, 129, 389-398.	1.0	26
114	Normal moveout velocities in 3D arbitrary anisotropic media. , 1997, , .		1
115	qP wave phase velocities in weakly anisotropic mediaâ \in perturbation approach. , 1996, , .		8
116	Wave front construction in smooth media for prestack depth migration. Pure and Applied Geophysics, 1996, 148, 481-502.	0.8	29
117	Tube wave modeling by the finite-difference method with varying grid spacing. Pure and Applied Geophysics, 1996, 148, 77-93.	0.8	41
118	Deep seismic sounding in the Turkana depression, northern Kenya Rift. Tectonophysics, 1994, 236, 165-178.	0.9	9
119	Crustal structure beneath the Kenya Rift from axial profile data. Tectonophysics, 1994, 236, 179-200.	0.9	64
120	Radiation from point sources in general anisotropic media. Geophysical Journal International, 1993, 113, 299-317.	1.0	42
121	Vector wavefields for weakly attenuating anisotropic media by the ray method. Geophysics, 1992, 57, 27-38.	1.4	57
122	Some remarks on the structure and geodynamics of the Kenya Rift. Tectonophysics, 1992, 213, 257-268.	0.9	24
123	Large-scale variation in lithospheric structure along and across the Kenya rift. Nature, 1991, 354, 223-227.	13.7	91
124	A new constraint on the composition of the topmost continental mantle-anomalously different depth increases ofPandSvelocity. Geophysical Journal International, 1990, 103, 497-507.	1.0	36
125	Crustal structure of southern Germany from seismic refraction data. Tectonophysics, 1990, 176, 59-86.	0.9	47
126	Vertical seismic profile synthetics by dynamic ray tracing in laterally varying layered anisotropic structures. Journal of Geophysical Research, 1990, 95, 11301-11315.	3.3	119

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127	Compressional and Shear-Wave Velocity Models of the Schwarzwald Derived from Seismic Refraction Data. Exploration of the Deep Continental Crust, 1989, , 363-383.	0.1	2
128	Ray synthetic seismograms for a 3-D anisotropic lithospheric structure. Physics of the Earth and Planetary Interiors, 1988, 51, 1-23.	0.7	9
129	An interpretation of wideâ€angle compressional and shear wave data in southwest Germany: Poisson's ratio and petrological implications. Journal of Geophysical Research, 1988, 93, 12081-12106.	3.3	111
130	Crustal evolution of the Rhinegraben area. 1. Exploring the lower crust in the Rhinegraben rift by unified geophysical experiments. Tectonophysics, 1987, 141, 261-275.	0.9	80
131	Seismic refraction investigation of the Black Forest. Tectonophysics, 1987, 142, 27-48.	0.9	76
132	A three-dimensional crustal model of southwest Germany derived from seismic refraction data. Tectonophysics, 1987, 142, 49-70.	0.9	63
133	Shearâ€wave velocity and Poisson's ratio structure of the upper lithosphere in southwest Germany. Geophysical Research Letters, 1987, 14, 231-234.	1.5	26
134	Combined seismic reflection and refraction profiling in southwest Germany - detailed velocity mapping by the refraction survey. Geophysical Journal International, 1987, 89, 333-338.	1.0	8
135	Computation of high-frequency seismic wavefields in 3-D laterally inhomogeneous anisotropic media. Geophysical Journal International, 1987, 91, 383-411.	1.0	140
136	On-the-Fly Full Hessian Kernel Calculations Based upon Seismic-Wave Simulations. Seismological Research Letters, 0, , .	0.8	1