

Klaus Holliger

List of Publications by Year in descending order

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237
papers

5,393
citations

70961

41
h-index

118652

62
g-index

241
all docs

241
docs citations

241
times ranked

2483
citing authors

#	ARTICLE	IF	CITATIONS
1	Application of a new 2D time-domain full-waveform inversion scheme to crosshole radar data. <i>Geophysics</i> , 2007, 72, J53-J64.	1.4	190
2	Full-Waveform Inversion of Crosshole Radar Data Based on 2-D Finite-Difference Time-Domain Solutions of Maxwell's Equations. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2007, 45, 2807-2828.	2.7	189
3	Upper-crustal seismic velocity heterogeneity as derived from a variety of P-wave sonic logs. <i>Geophysical Journal International</i> , 1996, 125, 813-829.	1.0	141
4	A stochastic view of lower crustal fabric based on evidence from the Ivrea Zone. <i>Geophysical Research Letters</i> , 1992, 19, 1153-1156.	1.5	139
5	Integration of diverse physical-property models: Subsurface zonation and petrophysical parameter estimation based on fuzzy c-means cluster analyses. <i>Geophysics</i> , 2006, 71, H33-H44.	1.4	131
6	Multivariate analysis of cross-hole georadar velocity and attenuation tomograms for aquifer zonation. <i>Water Resources Research</i> , 2004, 40, .	1.7	120
7	Prestack depth migration of primary and surface-related multiple reflections: Part I "Imaging. <i>Geophysics</i> , 2007, 72, S59-S69.	1.4	115
8	Finite-difference modeling of electromagnetic wave propagation in dispersive and attenuating media. <i>Geophysics</i> , 1998, 63, 856-867.	1.4	101
9	Seismoacoustic signatures of fracture connectivity. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 2252-2271.	1.4	93
10	Do seismic waves sense fracture connectivity?. <i>Geophysical Research Letters</i> , 2013, 40, 692-696.	1.5	91
11	The crust as a heterogeneous "optical" medium, or "crocodiles in the mist". <i>Tectonophysics</i> , 1994, 232, 281-297.	0.9	86
12	Stochastic modeling of the reflective lower crust: Petrophysical and geological evidence from the Ivrea Zone (northern Italy). <i>Journal of Geophysical Research</i> , 1993, 98, 11967-11980.	3.3	80
13	Modal fields: A new method for characterization of random seismic velocity heterogeneity. <i>Geophysical Research Letters</i> , 1994, 21, 493-496.	1.5	80
14	Gravity interpretation of a unified 2-D acoustic image of the central Alpine collision zone. <i>Geophysical Journal International</i> , 1992, 111, 213-225.	1.0	75
15	Ray-based amplitude tomography for crosshole georadar data: a numerical assessment. <i>Journal of Applied Geophysics</i> , 2001, 47, 285-298.	0.9	75
16	Is it the grain size or the characteristic pore size that controls the induced polarization relaxation time of clean sands and sandstones?. <i>Water Resources Research</i> , 2012, 48, .	1.7	75
17	Evolution of soil wetting patterns preceding a hydrologically induced landslide inferred from electrical resistivity survey and point measurements of volumetric water content and pore water pressure. <i>Water Resources Research</i> , 2013, 49, 7992-8004.	1.7	75
18	Numerical modeling of borehole georadar data. <i>Geophysics</i> , 2002, 67, 1249-1257.	1.4	73

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19	Small-scale heterogeneity and large-scale velocity structure of the continental crust. <i>Journal of Geophysical Research</i> , 1992, 97, 8797-8804.	3.3	70
20	Effects of near-surface waveguides on shallow high-resolution seismic refraction and reflection data. <i>Geophysical Research Letters</i> , 1996, 23, 495-498.	1.5	67
21	Multicomponent georadar data: Some important implications for data acquisition and processing. <i>Geophysics</i> , 2000, 65, 1542-1552.	1.4	67
22	Seismic attenuation and velocity dispersion in heterogeneous partially saturated porous rocks. <i>Geophysical Journal International</i> , 2012, 188, 1088-1102.	1.0	67
23	Seismic attenuation in partially saturated Berea sandstone submitted to a range of confining pressures. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 1664-1676.	1.4	63
24	Sensitivity of S-wave attenuation to the connectivity of fractures in fluid-saturated rocks. <i>Geophysics</i> , 2014, 79, WB15-WB24.	1.4	62
25	Quantitative integration of hydrogeophysical data: Conditional geostatistical simulation for characterizing heterogeneous alluvial aquifers. <i>Geophysics</i> , 2005, 70, H1-H10.	1.4	61
26	Numerical upscaling in 2D heterogeneous poroelastic rocks: Anisotropic attenuation and dispersion of seismic waves. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 6698-6721.	1.4	61
27	Impact of changes in grain size and pore space on the hydraulic conductivity and spectral induced polarization response of sand. <i>Hydrology and Earth System Sciences</i> , 2011, 15, 1785-1794.	1.9	60
28	Stochastic regularization: Smoothness or similarity?. <i>Geophysical Research Letters</i> , 1998, 25, 2889-2892.	1.5	58
29	A finite-difference time-domain simulation tool for ground-penetrating radar antennas. <i>Geophysics</i> , 2003, 68, 971-987.	1.4	58
30	Nature and origin of upper crustal seismic velocity fluctuations and associated scaling properties: Combined stochastic analyses of KTB velocity and lithology logs. <i>Journal of Geophysical Research</i> , 1999, 104, 13169-13182.	3.3	53
31	Results of 3-D georadar surveying and trenching the San Andreas fault near its northern landward limit. <i>Tectonophysics</i> , 2003, 368, 7-23.	0.9	53
32	Seismic scattering in the upper crystalline crust based on evidence from sonic logs. <i>Geophysical Journal International</i> , 1997, 128, 65-72.	1.0	50
33	Some attributes of wavefields scattered from Ivrea-type lower crust. <i>Tectonophysics</i> , 1994, 232, 267-279.	0.9	49
34	Guided waves in near-surface seismic surveys. <i>Geophysical Research Letters</i> , 1998, 25, 1071-1074.	1.5	49
35	Simulated-annealing-based conditional simulation for the local-scale characterization of heterogeneous aquifers. <i>Journal of Applied Geophysics</i> , 2009, 68, 60-70.	0.9	48
36	A simple hydromechanical approach for simulating squirt-type flow. <i>Geophysics</i> , 2016, 81, D335-D344.	1.4	45

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37	Seismic Attenuation and Stiffness Modulus Dispersion in Porous Rocks Containing Stochastic Fracture Networks. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 125-143.	1.4	45
38	Results of NFP 20 seismic reflection profiling along the Alpine section of the European Geotraverse (EGT). <i>Geophysical Journal International</i> , 1991, 105, 85-102.	1.0	43
39	Effects of fractal fluctuations in topographic relief, permittivity and conductivity on ground-penetrating radar antenna radiation. <i>Geophysics</i> , 2003, 68, 1934-1944.	1.4	43
40	Stochastic characterization and seismic response of upper and middle crustal rocks based on the Lewisian gneiss complex, Scotland. <i>Geophysical Journal International</i> , 1994, 119, 243-259.	1.0	42
41	Localization and characterization of an active fault in an urbanized area in central Guatemala by means of geoelectrical imaging. <i>Tectonophysics</i> , 2010, 480, 88-98.	0.9	42
42	Structure and seismic response of extended continental crust: Stochastic analysis of the Strona-Ceneri and Ivrea zones, Italy. <i>Geology</i> , 1994, 22, 79.	2.0	40
43	Research note: Seismic attenuation due to wave-induced fluid flow at microscopic and mesoscopic scales. <i>Geophysical Prospecting</i> , 2013, 61, 882-889.	1.0	39
44	Title is missing!. <i>Subsurface Sensing Technologies and Applications</i> , 2003, 4, 19-40.	0.9	38
45	Relating the permeability of quartz sands to their grain size and spectral induced polarization characteristics. <i>Geophysical Journal International</i> , 2012, 190, 230-242.	1.0	37
46	Inversion of crosshole seismic data in heterogeneous environments: Comparison of waveform and ray-based approaches. <i>Journal of Applied Geophysics</i> , 2009, 68, 85-94.	0.9	36
47	A simplified Lax-Wendroff correction for staggered-grid FDTD modeling of electromagnetic wave propagation in frequency-dependent media. <i>Geophysics</i> , 1999, 64, 1369-1377.	1.4	35
48	Enhancing the vertical resolution of surface georadar data. <i>Journal of Applied Geophysics</i> , 2009, 68, 26-35.	0.9	35
49	Seismoelectric effects due to mesoscopic heterogeneities. <i>Geophysical Research Letters</i> , 2013, 40, 2033-2037.	1.5	35
50	Simulation of surface waves in porous media. <i>Geophysical Journal International</i> , 2010, 183, 820-832.	1.0	34
51	Full-waveform inversion of Crosshole GPR data: Implications for porosity estimation in chalk. <i>Journal of Applied Geophysics</i> , 2017, 140, 102-116.	0.9	34
52	Seismic structure of gneissic/granititic upper crust: geological and petrophysical evidence from the Strona-Ceneri Zone (northern Italy) and implications for crustal seismic exploration. <i>Geophysical Journal International</i> , 1994, 119, 497-510.	1.0	33
53	Lower crustal reflectivity modeled by rheological controls on mafic intrusions. <i>Geology</i> , 1994, 22, 367-370.	2.0	33
54	Realistic FDTD modelling of borehole georadar antenna radiation: methodology and application. <i>Near Surface Geophysics</i> , 2006, 4, 19-30.	0.6	33

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55	On the evaluation of plane-wave reflection coefficients in anelastic media. <i>Geophysical Journal International</i> , 2008, 175, 94-102.	1.0	33
56	Numerical properties of staggered finite-difference solutions of Maxwell's equations for ground-penetrating radar modeling. <i>Geophysical Research Letters</i> , 1996, 23, 45-48.	1.5	32
57	Regional-scale integration of multiresolution hydrological and geophysical data using a two-step Bayesian sequential simulation approach. <i>Geophysical Journal International</i> , 2013, 194, 289-303.	1.0	32
58	Attenuation mechanisms in fractured fluid-saturated porous rocks: a numerical modelling study. <i>Geophysical Prospecting</i> , 2019, 67, 935-955.	1.0	32
59	Estimation of the lateral correlation structure of subsurface water content from surface-based ground-penetrating radar reflection images. <i>Water Resources Research</i> , 2009, 45, .	1.7	31
60	Which Path to Choose in Sequential Gaussian Simulation. <i>Mathematical Geosciences</i> , 2018, 50, 97-120.	1.4	31
61	Modeling of seismic wave propagation near the earth's surface. <i>Physics of the Earth and Planetary Interiors</i> , 1997, 104, 193-211.	0.7	30
62	Inversion of source-generated noise in high-resolution seismic data. <i>The Leading Edge</i> , 1999, 18, 1402-1406.	0.4	30
63	Data-driven adaptive decomposition of multicomponent seabed recordings. <i>Geophysics</i> , 2004, 69, 1329-1337.	1.4	30
64	A Comparison of the Moho Interpreted From Gravity Data and From Deep Seismic Reflection Data In the Northern North Sea. <i>Geophysical Journal International</i> , 1989, 97, 247-258.	1.0	29
65	Resistively loaded antennas for ground-penetrating radar: A modeling approach. <i>Geophysics</i> , 2005, 70, K23-K32.	1.4	28
66	Estimation of Fracture Compliance From Attenuation and Velocity Analysis of Full-Waveform Sonic Log Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 2738-2761.	1.4	28
67	Permeability effects on the seismic response of gas reservoirs. <i>Geophysical Journal International</i> , 2012, 189, 448-468.	1.0	27
68	Accurate and efficient FDTD modeling of ground-penetrating radar antenna radiation. <i>Geophysical Research Letters</i> , 1998, 25, 3883-3886.	1.5	26
69	Prestack depth migration of primary and surface-related multiple reflections: Part II " Identification and removal of residual multiples. <i>Geophysics</i> , 2007, 72, S71-S76.	1.4	26
70	Rate and processes of river network rearrangement during incipient faulting: The case of the Cahabon River, Guatemala. <i>Numerische Mathematik</i> , 2012, 312, 449-507.	0.7	26
71	Fracture connectivity can reduce the velocity anisotropy of seismic waves. <i>Geophysical Journal International</i> , 2017, 210, 223-227.	1.0	26
72	Shallow geometry and displacements on the San Andreas Fault near Point Arena based on trenching and 3-D georadar surveying. <i>Geophysical Research Letters</i> , 2002, 29, 34-1-34-4.	1.5	25

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73	Quaternary seismo-tectonic activity of the Polochic Fault, Guatemala. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	25
74	Frequency scaling of seismic attenuation in rocks saturated with two fluid phases. <i>Geophysical Journal International</i> , 2017, 208, 221-225.	1.0	25
75	Sensitivity of the lateral correlation function in deep seismic reflection data. <i>Geophysical Research Letters</i> , 1992, 19, 2263-2266.	1.5	24
76	A hybrid wave propagation simulation technique for ocean acoustic problems. <i>Journal of Geophysical Research</i> , 1996, 101, 11225-11241.	3.3	24
77	The non-geometric P -wave in high-resolution seismic data: observations and modelling. <i>Geophysical Journal International</i> , 2000, 140, F5-F11.	1.0	24
78	A pseudo-spectral method for the simulation of poro-elastic seismic wave propagation in 2D polar coordinates using domain decomposition. <i>Journal of Computational Physics</i> , 2013, 235, 846-864.	1.9	24
79	Stochastic analysis of sonic logs from the upper crystalline crust: methodology. <i>Tectonophysics</i> , 1996, 264, 341-356.	0.9	22
80	Spectral analyses of the KTB sonic and density logs using robust nonparametric methods. <i>Journal of Geophysical Research</i> , 1997, 102, 18391-18403.	3.3	22
81	Detection and characterization of hydraulically active fractures in a carbonate aquifer: results from self-potential, temperature and fluid electrical conductivity logging in the Combioula hydrothermal system in the southwestern Swiss Alps. <i>Hydrogeology Journal</i> , 2008, 16, 1319-1328.	0.9	22
82	An energy-based approach to estimate seismic attenuation due to wave-induced fluid flow in heterogeneous poroelastic media. <i>Geophysical Journal International</i> , 2016, 207, 823-832.	1.0	22
83	Numerically quantifying energy loss caused by squirt flow. <i>Geophysical Prospecting</i> , 2019, 67, 2196-2212.	1.0	22
84	Comparison of high-frequency seismic sources at the Grimsel test site, central Alps, Switzerland. <i>Geophysics</i> , 1998, 63, 1363-1370.	1.4	21
85	Estimation of the correlation structure of crustal velocity heterogeneity from seismic reflection data. <i>Geophysical Journal International</i> , 2010, 183, 1408-1428.	1.0	21
86	Estimating vadose zone hydraulic properties using ground penetrating radar: The impact of prior information. <i>Water Resources Research</i> , 2011, 47, .	1.7	21
87	Bayesian Markov Chain Monte Carlo Inversion of Time-Lapse Crosshole GPR Data to Characterize the Vadose Zone at the Arrenaes Site, Denmark. <i>Vadose Zone Journal</i> , 2012, 11, vz2011.0153.	1.3	21
88	Seismic wave attenuation and dispersion due to wave-induced fluid flow in rocks with strong permeability fluctuations. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 4742-4751.	0.5	21
89	Fluid pressure diffusion effects on the seismic reflectivity of a single fracture. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 2554-2570.	0.5	21
90	Numerical upscaling of frequency-dependent P - and S -wave moduli in fractured porous media. <i>Geophysical Prospecting</i> , 2016, 64, 1166-1179.	1.0	21

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91	Use of high-resolution geophysical data to characterize heterogeneous aquifers: Influence of data integration method on hydrological predictions. <i>Water Resources Research</i> , 2009, 45, .	1.7	20
92	Representative elementary volumes for evaluating effective seismic properties of heterogeneous poroelastic media. <i>Geophysics</i> , 2016, 81, D169-D181.	1.4	20
93	Waveform Inversion of Crosshole Georadar Data: Influence of Source Wavelet Variability and the Suitability of a Single Wavelet Assumption. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2012, 50, 4610-4625.	2.7	19
94	Integration of hydrological and geophysical data beyond the local scale: Application of Bayesian sequential simulation to field data from the Saint-Lambert-de-Lauzon site, QuÃ©bec, Canada. <i>Journal of Hydrology</i> , 2014, 514, 271-280.	2.3	19
95	Systematic evaluation of sequential geostatistical resampling within MCMC for posterior sampling of near-surface geophysical inverse problems. <i>Geophysical Journal International</i> , 2015, 202, 961-975.	1.0	19
96	Including poroelastic effects in the linear slip theory. <i>Geophysics</i> , 2015, 80, A51-A56.	1.4	19
97	Fault scaling and 1/f noise scaling of seismic velocity fluctuations in the upper crystalline crust. <i>Geology</i> , 1996, 24, 1103.	2.0	18
98	Effects of gas- and water-filled boreholes on the amplitudes of crosshole georadar data as inferred from experimental evidence. <i>Geophysics</i> , 2004, 69, 1255-1260.	1.4	18
99	Geostatistical inversion of seismic and ground-penetrating radar reflection images: What can we actually resolve?. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	18
100	A pseudospectral method for the simulation of 3-D ultrasonic and seismic waves in heterogeneous poroelastic borehole environments. <i>Geophysical Journal International</i> , 2014, 196, 1134-1151.	1.0	18
101	Extension of the classical linear slip model for fluid-saturated fractures: Accounting for fluid pressure diffusion effects. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 1302-1323.	1.4	18
102	A Generic Model for the 1/f-Nature of Seismic Velocity Fluctuations. , 2003, , 131-154.		18
103	Attenuation of broad-band (50-1500 Hz) seismic waves in granitic rocks near the Earth's surface. <i>Geophysical Research Letters</i> , 1996, 23, 1981-1984.	1.5	17
104	Sensitivity of Seismic Attenuation and Phase Velocity to Intrinsic Background Anisotropy in Fractured Porous Rocks: A Numerical Study. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8181-8199.	1.4	16
105	Accelerating Sequential Gaussian Simulation with a constant path. <i>Computers and Geosciences</i> , 2018, 112, 121-132.	2.0	16
106	Effects of the shallow subsurface on upper crustal seismic reflection images. <i>Tectonophysics</i> , 1998, 286, 161-169.	0.9	15
107	An analytical study of seismoelectric signals produced by 1-D mesoscopic heterogeneities. <i>Geophysical Journal International</i> , 2015, 201, 329-342.	1.0	13
108	Saturation Hysteresis Effects on the Seismic Signatures of Partially Saturated Heterogeneous Porous Rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 11316-11335.	1.4	13

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109	Fully-automated adaptive mesh refinement for media embedding complex heterogeneities: application to poroelastic fluid pressure diffusion. <i>Computational Geosciences</i> , 2020, 24, 1101-1120.	1.2	13
110	Seismic reflectivity of detachment faults of the Iberian and Tethyan distal continental margins based on geological and petrophysical data. <i>Tectonophysics</i> , 2002, 350, 127-156.	0.9	12
111	Tectonic nature and seismic response of top-basement detachment faults in magma-poor rifted margins. <i>Tectonics</i> , 2003, 22, n/a-n/a.	1.3	12
112	Data-driven adaptive decomposition of multicomponent seabed seismic recordings: Application to shallow-water data from the North Sea. <i>Geophysics</i> , 2007, 72, V133-V142.	1.4	12
113	Calibration of high-resolution geophysical data with tracer test measurements to improve hydrological predictions. <i>Advances in Water Resources</i> , 2010, 33, 55-68.	1.7	12
114	High-resolution velocity estimation from surface-based common-offset GPR reflection data. <i>Geophysical Journal International</i> , 2022, 230, 131-144.	1.0	12
115	Effects of stochastic heterogeneity on ray-based tomographic inversion of crosshole georadar amplitude data. <i>Journal of Applied Geophysics</i> , 2004, 56, 177-193.	0.9	11
116	Seismic reflectivity of the sediment-covered seafloor: effects of velocity gradients and fine-scale layering. <i>Geophysical Journal International</i> , 2010, 181, 521-531.	1.0	11
117	Surfaceâ€Wave Dispersion in Partially Saturated Soils: The Role of Capillary Forces. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022074.	1.4	11
118	<title>3D ground penetrating radar applied to paleoseismology: examples from the Wellington Fault, New Zealand</title>. , 2000, 4084, 478.		10
119	Perturbation analysis of an explicit wavefield separation scheme for Pâ€and Sâ€waves. <i>Geophysics</i> , 2002, 67, 1972-1982.	1.4	10
120	Prestack depth migration of primary and surfaceâ€related multiple reflections. , 2005, , .		10
121	Constraints on the Permeability Structure of Alluvial Aquifers From the Poro-Elastic Inversion of Multifrequency P-Wave Sonic Velocity Logs. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 1937-1948.	2.7	10
122	Examining the information content of time-lapse crosshole GPR data collected under different infiltration conditions to estimate unsaturated soil hydraulic properties. <i>Advances in Water Resources</i> , 2013, 54, 38-56.	1.7	10
123	Attenuation of sonic waves in water-saturated alluvial sediments due to wave-induced fluid flow at microscopic, mesoscopic and macroscopic scales. <i>Geophysical Journal International</i> , 2015, 203, 146-157.	1.0	10
124	A generalized effective anisotropic poroelastic model for periodically layered media accounting for both Biot's global and interlayer flows. <i>Geophysical Prospecting</i> , 2016, 64, 1135-1148.	1.0	10
125	Modeling Forced Imbibition Processes and the Associated Seismic Attenuation in Heterogeneous Porous Rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9031-9049.	1.4	10
126	Seismic Signatures of Fractured Porous Rocks: The Partially Saturated Case. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2020JB019960.	1.4	10

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127	Dynamic permeability functions for partially saturated porous media. <i>Geophysical Journal International</i> , 2020, 221, 1182-1189.	1.0	10
128	Title is missing!. <i>Marine Geophysical Researches</i> , 2002, 23, 319-334.	0.5	9
129	Seismic attenuation and velocity dispersion in fractured rocks: The role played by fracture contact areas. <i>Geophysical Prospecting</i> , 2014, 62, 1278-1296.	1.0	9
130	Impact of fracture clustering on the seismic signatures of porous rocks containing aligned fractures. <i>Geophysics</i> , 2018, 83, MR295-MR308.	1.4	9
131	Simulation of fine-scale electrical conductivity fields using resolution-limited tomograms and area-to-point kriging. <i>Geophysical Journal International</i> , 2019, 218, 1322-1335.	1.0	9
132	9. Analysis of the Velocity Dispersion and Attenuation Behavior of Multifrequency Sonic Logs. , 2010, , 153-166.		9
133	Quantitative comparison between simulations of seismic wave propagation in heterogeneous poro-elastic media and equivalent visco-elastic solids for marine-type environments. <i>Geophysical Journal International</i> , 2013, 193, 463-474.	1.0	8
134	Energy dissipation of P- and S-waves in fluid-saturated rocks: An overview focusing on hydraulically connected fractures. <i>Journal of Earth Science (Wuhan, China)</i> , 2015, 26, 785-790.	1.1	8
135	Estimation of the 3D correlation structure of an alluvial aquifer from surface-based multi-frequency ground-penetrating radar reflection data. <i>Geophysical Prospecting</i> , 2020, 68, 678-689.	1.0	8
136	Seismic anisotropy in fractured low-permeability formations: The effects of hydraulic connectivity. , 2015, , .		8
137	<title>Numerical modeling of a complete ground-penetrating radar system</title>. , 2001, , .		7
138	Near-surface seismic properties for elastic wavefield decomposition: Estimates based on multicomponent land and seabed recordings. <i>Geophysics</i> , 2003, 68, 2073-2081.	1.4	7
139	Evaluation of the reconstruction limits of a frequency-independent crosshole georadar waveform inversion scheme in the presence of dispersion. <i>Journal of Applied Geophysics</i> , 2012, 78, 9-19.	0.9	7
140	Analysis of an iterative deconvolution approach for estimating the source wavelet during waveform inversion of crosshole georadar data. <i>Journal of Applied Geophysics</i> , 2012, 78, 20-30.	0.9	7
141	Laboratory measurements of seismic attenuation and Young's modulus dispersion in a partially and fully water-saturated porous sample made of sintered borosilicate glass. <i>Geophysical Prospecting</i> , 2018, 66, 1384-1401.	1.0	7
142	Characterization and imaging of a hydrothermally active near-vertical fault zone in crystalline rocks based on hydrophone VSP data. <i>Tectonophysics</i> , 2019, 750, 153-176.	0.9	6
143	Estimates of Individual Fracture Compliances Along Boreholes From Full-Waveform Sonic Log Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022015.	1.4	6
144	Detection and Characterization of Preferential Flow Paths in the Downstream Area of a Hazardous Landfill. <i>Journal of Environmental and Engineering Geophysics</i> , 2008, 13, 343-350.	1.0	6

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145	Bayesian full-waveform inversion of tube waves to estimate fracture aperture and compliance. Solid Earth, 2020, 11, 657-668.	1.2	6
146	Characteristics of a fracture network surrounding a hydrothermally altered shear zone from geophysical borehole logs. Solid Earth, 2020, 11, 829-854.	1.2	6
147	Integrated analysis of seismic normal incidence and wide-angle reflection measurements across the eastern Swiss Alps. Geodynamic Series, 1991, , 195-205.	0.1	5
148	Anisotropic seismic tomography of a potential hot dry rock reservoir before and during induced pressurization. Geophysical Research Letters, 1998, 25, 1991-1994.	1.5	5
149	Realistic modelling of surface ground-penetrating radar antenna systems: where do we stand?. Near Surface Geophysics, 2004, 2, 15-23.	0.6	5
150	Full-waveform inversion of crosshole georadar data. , 2005, , .		5
151	Squirt flow in partially saturated cracks: a simple analytical model. Geophysical Journal International, 2021, 227, 680-692.	1.0	5
152	Conditional stochastic inversion of common-offset ground-penetrating radar reflection data. Geophysics, 2021, 86, WB89-WB99.	1.4	5
153	Multi-Offset Vertical Radar Profiling for Subsurface Reflection Imaging. Journal of Environmental and Engineering Geophysics, 2006, 11, 289-298.	1.0	5
154	Estimating reservoir permeability with borehole radar. Geophysics, 2020, 85, H51-H60.	1.4	5
155	Modeling of the Acoustic Reverberation Special Research Program deep ocean seafloor scattering experiments using a hybrid wave propagation simulation technique. Journal of Geophysical Research, 1996, 101, 3085-3101.	3.3	4
156	<title>Combining cross-hole georadar velocity and attenuation tomography for site characterization: a case study in an unconsolidated aquifer</title>. , 2002, , .		4
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