Hengshan Hu

List of Publications by Year
in descending order

74	1,169	331538	477173
papers	citations	21 h-index	29 g-index

77	77	77	399
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Modified multiplying-factor integration method for solving exponential function dual integrals in crack problems. Acta Mechanica Sinica/Lixue Xuebao, 2022, 38, .	1.5	1
2	Seismic Sources in Stressâ€Induced Anisotropic Media. Journal of Geophysical Research: Solid Earth, 2022, 127, .	1.4	2
3	Combination of FDTD With Analytical Methods for Simulating Elastic Scattering of 3-D Objects Outside a Fluid-Filled Borehole. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5325-5334.	2.7	3
4	Attenuation and dispersion of P-waves in fluid-saturated porous rocks with a distribution of coplanar cracks â€" Scattering approach. Geophysics, 2021, 86, MR81-MR93.	1.4	4
5	Frequency-dependent anisotropy in porous rocks with aligned cracks containing compressible fluidâ€"a model based on poroelastic spring condition and exact solution of scattering by a circular crack at oblique incidence. Geophysical Journal International, 2021, 226, 1105-1129.	1.0	6
6	Chemical free energy profiles for martensitic transformation of CuAlNi at finite temperatures. Computational Materials Science, 2021, 195, 110478.	1.4	0
7	The mechanical responses in monopole acoustic LWD and their relation with the output voltage waveform. Journal of Geophysics and Engineering, 2021, 18, 712-724.	0.7	2
8	Simulation of borehole acoustic wavefields in fractured media by combining the spectral-element method and linear-slip model. Geophysics, 2021, 86, D177-D192.	1.4	3
9	Seismic attenuation and dispersion in a cracked porous medium: An effective medium model based on poroelastic linear slip conditions. Mechanics of Materials, 2020, 140, 103229.	1.7	10
10	Dynamics anisotropy in a porous solid with aligned slit fractures. Journal of the Mechanics and Physics of Solids, 2020, 137, 103865.	2.3	14
11	Rail crack detection using acoustic emission technique by joint optimization noise clustering and time window feature detection. Applied Acoustics, 2020, 160, 107141.	1.7	22
12	Stress intensity factors of a Griffith crack in a porous medium subjected to a time-harmonic stress wave. Engineering Fracture Mechanics, 2020, 223, 106801.	2.0	7
13	Solutions of P-SV and SV-P waves in single-well imaging through reciprocity relations. Geophysics, 2020, 85, D245-D259.	1.4	6
14	P-wave attenuation and dispersion in a fluid-saturated rock with aligned rectangular cracks. Mechanics of Materials, 2020, 147, 103409.	1.7	9
15	High-resolution inversion for dispersion characteristics of acoustic logging waveforms. Journal of Geophysics and Engineering, 2020, 17, 439-450.	0.7	5
16	Measurements of the seismoelectric responses in a synthetic porous rock. Geophysical Journal International, 2020, 222, 436-448.	1.0	8
17	Effective properties of a porous medium with aligned cracks containing compressible fluid. Geophysical Journal International, 2020, 221, 60-76.	1.0	14
18	Fracture analysis on an infinite row of collinear permeable cracks in a porous medium. Engineering Fracture Mechanics, 2020, 232, 107050.	2.0	4

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19	A study on the influence of salinity interfaces on borehole seismoelectric wavefields. Geophysics, 2020, 85, D167-D180.	1.4	5
20	Elastic wave scattering by a fluid-saturated circular crack and effective properties of a solid with a sparse distribution of aligned cracks. Journal of the Acoustical Society of America, 2019, 146, 470-485.	0.5	10
21	Electromagnetic responses to an earthquake source due to the motional induction effect in a 2-D layered model. Geophysical Journal International, 2019, 219, 563-593.	1.0	14
22	Asymptotic solution to a 3D dipole single-well imaging system with combined monopole and dipole receivers with an application in elimination of azimuth ambiguity. Geophysics, 2019, 84, D191-D207.	1.4	17
23	A semianalytical approach to calculate the reflected wave of an eccentric source in a borehole. Geophysics, 2019, 84, D1-D9.	1.4	5
24	Contributions of poroelastic-wave potentials to seismoelectromagnetic wavefields and validity of the quasi-static calculation: a view from a borehole model. Geophysical Journal International, 2018, 212, 458-475.	1.0	17
25	Successive measurements of streaming potential and electroosmotic pressure with the same core-holder. Journal of Applied Geophysics, 2018, 152, 48-55.	0.9	1
26	An improved AE detection method of rail defect based on multi-level ANC with VSS-LMS. Mechanical Systems and Signal Processing, 2018, 99, 420-433.	4.4	32
27	A new rail crack detection method using LSTM network for actual application based on AE technology. Applied Acoustics, 2018, 142, 78-86.	1.7	32
28	AE detection of crack signal in tank shell using the multi-sensors with adaptive weighted fusion method. , 2018, , .		0
29	A theoretical investigation of acoustic monopole logging-while-drilling individual waves with emphasis on the collar wave and its dependence on formation. Geophysics, 2017, 82, D1-D11.	1.4	21
30	Dynamic stress intensity factor (Mode I) of a permeable penny-shaped crack in a fluid-saturated poroelastic solid. International Journal of Solids and Structures, 2017, 110-111, 127-136.	1.3	24
31	Normal compression wave scattering by a permeable crack in a fluid-saturated poroelastic solid. Acta Mechanica Sinica/Lixue Xuebao, 2017, 33, 356-367.	1.5	22
32	Numerical study of the collar wave characteristics and the effects of grooves in acoustic logging while drilling. Geophysical Journal International, 2017, 209, 749-761.	1.0	14
33	Inversion of the shear velocity of the cement in cased borehole through ultrasonic flexural waves. Geophysics, 2017, 82, D57-D68.	1.4	8
34	Seismoelectric responses to an explosive source in a fluid above a fluidâ€saturated porous medium. Journal of Geophysical Research: Solid Earth, 2017, 122, 7190-7218.	1.4	17
35	Comparison of full and quasiâ€static seismoelectric analytically based modeling. Journal of Geophysical Research: Solid Earth, 2017, 122, 8066-8106.	1.4	18
36	Rail crack detection based on the adaptive noise cancellation method of EMD at high speed. , 2017, , .		1

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37	Determination of Electroosmotic Pressure by Two Pressure Transducers. , 2017, , .		1
38	Solutions for Effective Shear Properties in a Three-Phase Poroelastic Sphere Model. , 2017, , .		0
39	Inversion of formation shear speed from dipole Scholte wave during logging while drilling in slow formations. Proceedings of Meetings on Acoustics, 2017, , .	0.3	1
40	Deriving Biot-Gassmann relationship by inclusion-based method. Geophysics, 2016, 81, D657-D667.	1.4	8
41	The evaluation of rock permeability with streaming current measurements. Geophysical Journal International, 2016, 206, 1563-1573.	1.0	17
42	Modeling of the coseismic electromagnetic fields observed during the 2004 M_w 6.0 Parkfield earthquake. Geophysical Research Letters, 2016, 43, 620-627.	1.5	44
43	Dynamic transverse shear modulus for a heterogeneous fluid-filled porous solid containing cylindrical inclusions. Geophysical Journal International, 2016, 206, 1677-1694.	1.0	13
44	Shear properties of heterogeneous fluid-filled porous media with spherical inclusions. International Journal of Solids and Structures, 2016, 83, 154-168.	1.3	24
45	Moment tensors of a dislocation in a porous medium. Pure and Applied Geophysics, 2016, 173, 2033-2045.	0.8	5
46	Simulation of the borehole quasistatic electric field excited by the acoustic wave during logging while drilling due to electrokinetic effect. Geophysics, 2015, 80, D417-D427.	1.4	16
47	Electrokinetic experimental study on saturated rock samples: zeta potential and surface conductance. Geophysical Journal International, 2015, 201, 869-877.	1.0	34
48	Experimental measurements of seismoelectric signals in borehole models. Geophysical Journal International, 2015, 203, 1937-1945.	1.0	22
49	Reciprocity relations for the elastodynamic fields generated by multipole sources in a fluidâ€“solid configuration. Geophysical Journal International, 2015, 203, 883-892.	1.0	12
50	A technique to eliminate the azimuth ambiguity in single-well imaging. Geophysics, 2014, 79, D409-D416.	1.4	19
51	Induced electromagnetic field by seismic waves in Earth's magnetic field. Journal of Geophysical Research: Solid Earth, 2014, 119, 5651-5685.	1.4	30
52	Permeability inversion from lowâ€frequency seismoelectric logs in fluidâ€saturated porous formations. Geophysical Prospecting, 2013, 61, 120-133.	1.0	37
53	Theoretical simulation of the multipole seismoelectric logging while drilling. Geophysical Journal International, 2013, 195, 1239-1250.	1.0	27
54	Finite difference modelling of dipole acoustic logs in a poroelastic formation with anisotropic permeability. Geophysical Journal International, 2013, 192, 359-374.	1.0	28

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55	Early electromagnetic waves from earthquake rupturing: II. validation and numerical experiments. Geophysical Journal International, 2013, 192, 1308-1323.	1.0	37
56	Early electromagnetic waves from earthquake rupturing: I. theoretical formulations. Geophysical Journal International, 2013, 192, 1288-1307.	1.0	33
57	Electromagnetic field generated by a finite fault due to electrokinetic effect. Journal of Geophysical Research, 2011, 116, .	3.3	60
58	The Parameter Averaging Technique in Finite-Difference Modeling of Elastic Waves in Combined Structures with Solid, Fluid and Porous Subregions. Communications in Computational Physics, 2011, 10, 695-715.	0.7	15
59	Simulation of Monopole and Multipole Seismoelectric Logging. Advances in Acoustics and Vibration, 2011, 2011, 1-10.	0.5	0
60	Single-valued definition of the multivalued function for borehole acoustic waves in transversely isotropic formations. Science China: Physics, Mechanics and Astronomy, 2010, 53, 1419-1426.	2.0	9
61	Fast and slow flexural waves in a deviated borehole in homogeneous and layered anisotropic formations. Geophysical Journal International, 2010, 181, 417-426.	1.0	28
62	Seismoelectromagnetic waves radiated by a double couple source in a saturated porous medium. Geophysical Journal International, 2010, , .	1.0	44
63	2D seismoelectric log simulation using a finiteâ€difference method. , 2009, , .		1
64	Finite-difference modeling of the monopole acoustic logs in a horizontally stratified porous formation. Journal of the Acoustical Society of America, 2009, 125, 1942-1950.	0.5	30
65	Borehole flexural modes in transversely isotropic formations: Low-frequency asymptotic velocity. Geophysics, 2009, 74, E149-E158.	1.4	27
66	The electric field induced by the fast Pâ€wave and its nonexistence in a dynamically compatible porous medium. , 2009, , .		3
67	The lowâ€frequency asymptotic velocity of pseudoâ€Rayleigh, flexural, and screw modes in anisotropic formations. , 2009, , .		0
68	Finite-difference modeling of the electroseismic logging in a fluid-saturated porous formation. Journal of Computational Physics, 2008, 227, 5633-5648.	1.9	62
69	Theoretical simulation of electroacoustic borehole logging in a fluid-saturated porous formation. Journal of the Acoustical Society of America, 2007, 122, 135-145.	0.5	65
70	Finiteâ€difference modeling of electroacoustic logging response in fluidâ€saturated porous formation. , 2007, , .		1
71	Simulation of the converted electric field during acoustoelectric logging. , 2002, , .		19
72	Simulation of seismoelectric waves using finite-difference frequency-domain method: 2D SHTE mode. Geophysical Journal International, 0, , .	1.0	8

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73	Scattering problems for a rectangular crack in a saturated porous material: application of the Chebyshev's functions. Waves in Random and Complex Media, 0, , 1-30.	1.6	0
74	Spectral element modeling of elastic wave propagation in an anisotropic background with discrete anisotropic fractures. Geophysical Journal International, 0, , .	1.0	10