

Hengshan Hu

List of Publications by Year in descending order

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74
papers

1,169
citations

331259

21
h-index

476904

29
g-index

77
all docs

77
docs citations

77
times ranked

399
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Finite-difference modeling of the electroseismic logging in a fluid-saturated porous formation. Journal of Computational Physics, 2008, 227, 5633-5648.	1.9	62
3	Electromagnetic field generated by a finite fault due to electrokinetic effect. Journal of Geophysical Research, 2011, 116, .	3.3	60
4	Seismoelectromagnetic waves radiated by a double couple source in a saturated porous medium. Geophysical Journal International, 2010, , .	1.0	44
5	Modeling of the coseismic electromagnetic fields observed during the 2004 <i>M_w</i> 6.0 Parkfield earthquake. Geophysical Research Letters, 2016, 43, 620-627.	1.5	44
6	Permeability inversion from low-frequency seismoelectric logs in fluid-saturated porous formations. Geophysical Prospecting, 2013, 61, 120-133.	1.0	37
7	Early electromagnetic waves from earthquake rupturing: II. validation and numerical experiments. Geophysical Journal International, 2013, 192, 1308-1323.	1.0	37
8	Electrokinetic experimental study on saturated rock samples: zeta potential and surface conductance. Geophysical Journal International, 2015, 201, 869-877.	1.0	34
9	Early electromagnetic waves from earthquake rupturing: I. theoretical formulations. Geophysical Journal International, 2013, 192, 1288-1307.	1.0	33
10	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
11	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
12	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
13	Induced electromagnetic field by seismic waves in Earth's magnetic field. Journal of Geophysical Research: Solid Earth, 2014, 119, 5651-5685.	1.4	30
14	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
15	Finite difference modelling of dipole acoustic logs in a poroelastic formation with anisotropic permeability. Geophysical Journal International, 2013, 192, 359-374.	1.0	28
16	Borehole flexural modes in transversely isotropic formations: Low-frequency asymptotic velocity. Geophysics, 2009, 74, E149-E158.	1.4	27
17	Theoretical simulation of the multipole seismoelectric logging while drilling. Geophysical Journal International, 2013, 195, 1239-1250.	1.0	27
18	Shear properties of heterogeneous fluid-filled porous media with spherical inclusions. International Journal of Solids and Structures, 2016, 83, 154-168.	1.3	24

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19	Dynamic stress intensity factor (Mode I) of a permeable penny-shaped crack in a fluid-saturated poroelastic solid. <i>International Journal of Solids and Structures</i> , 2017, 110-111, 127-136.	1.3	24
20	Experimental measurements of seismoelectric signals in borehole models. <i>Geophysical Journal International</i> , 2015, 203, 1937-1945.	1.0	22
21	Normal compression wave scattering by a permeable crack in a fluid-saturated poroelastic solid. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2017, 33, 356-367.	1.5	22
22	Rail crack detection using acoustic emission technique by joint optimization noise clustering and time window feature detection. <i>Applied Acoustics</i> , 2020, 160, 107141.	1.7	22
23	A theoretical investigation of acoustic monopole logging-while-drilling individual waves with emphasis on the collar wave and its dependence on formation. <i>Geophysics</i> , 2017, 82, D1-D11.	1.4	21
24	Simulation of the converted electric field during acoustoelectric logging. , 2002, , .		19
25	A technique to eliminate the azimuth ambiguity in single-well imaging. <i>Geophysics</i> , 2014, 79, D409-D416.	1.4	19
26	Comparison of full and quasi-static seismoelectric analytically based modeling. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8066-8106.	1.4	18
27	The evaluation of rock permeability with streaming current measurements. <i>Geophysical Journal International</i> , 2016, 206, 1563-1573.	1.0	17
28	Seismoelectric responses to an explosive source in a fluid above a fluid-saturated porous medium. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 7190-7218.	1.4	17
29	Contributions of poroelastic-wave potentials to seismoelectromagnetic wavefields and validity of the quasi-static calculation: a view from a borehole model. <i>Geophysical Journal International</i> , 2018, 212, 458-475.	1.0	17
30	Asymptotic solution to a 3D dipole single-well imaging system with combined monopole and dipole receivers with an application in elimination of azimuth ambiguity. <i>Geophysics</i> , 2019, 84, D191-D207.	1.4	17
31	Simulation of the borehole quasistatic electric field excited by the acoustic wave during logging while drilling due to electrokinetic effect. <i>Geophysics</i> , 2015, 80, D417-D427.	1.4	16
32	The Parameter Averaging Technique in Finite-Difference Modeling of Elastic Waves in Combined Structures with Solid, Fluid and Porous Subregions. <i>Communications in Computational Physics</i> , 2011, 10, 695-715.	0.7	15
33	Numerical study of the collar wave characteristics and the effects of grooves in acoustic logging while drilling. <i>Geophysical Journal International</i> , 2017, 209, 749-761.	1.0	14
34	Electromagnetic responses to an earthquake source due to the motional induction effect in a 2-D layered model. <i>Geophysical Journal International</i> , 2019, 219, 563-593.	1.0	14
35	Dynamics anisotropy in a porous solid with aligned slit fractures. <i>Journal of the Mechanics and Physics of Solids</i> , 2020, 137, 103865.	2.3	14
36	Effective properties of a porous medium with aligned cracks containing compressible fluid. <i>Geophysical Journal International</i> , 2020, 221, 60-76.	1.0	14

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37	Dynamic transverse shear modulus for a heterogeneous fluid-filled porous solid containing cylindrical inclusions. <i>Geophysical Journal International</i> , 2016, 206, 1677-1694.	1.0	13
38	Reciprocity relations for the elastodynamic fields generated by multipole sources in a fluid-solid configuration. <i>Geophysical Journal International</i> , 2015, 203, 883-892.	1.0	12
39	Elastic wave scattering by a fluid-saturated circular crack and effective properties of a solid with a sparse distribution of aligned cracks. <i>Journal of the Acoustical Society of America</i> , 2019, 146, 470-485.	0.5	10
40	Seismic attenuation and dispersion in a cracked porous medium: An effective medium model based on poroelastic linear slip conditions. <i>Mechanics of Materials</i> , 2020, 140, 103229.	1.7	10
41	Spectral element modeling of elastic wave propagation in an anisotropic background with discrete anisotropic fractures. <i>Geophysical Journal International</i> , 0, , .	1.0	10
42	Single-valued definition of the multivalued function for borehole acoustic waves in transversely isotropic formations. <i>Science China: Physics, Mechanics and Astronomy</i> , 2010, 53, 1419-1426.	2.0	9
43	P-wave attenuation and dispersion in a fluid-saturated rock with aligned rectangular cracks. <i>Mechanics of Materials</i> , 2020, 147, 103409.	1.7	9
44	Deriving Biot-Gassmann relationship by inclusion-based method. <i>Geophysics</i> , 2016, 81, D657-D667.	1.4	8
45	Inversion of the shear velocity of the cement in cased borehole through ultrasonic flexural waves. <i>Geophysics</i> , 2017, 82, D57-D68.	1.4	8
46	Simulation of seismoelectric waves using finite-difference frequency-domain method: 2D SHTE mode. <i>Geophysical Journal International</i> , 0, , .	1.0	8
47	Measurements of the seismoelectric responses in a synthetic porous rock. <i>Geophysical Journal International</i> , 2020, 222, 436-448.	1.0	8
48	Stress intensity factors of a Griffith crack in a porous medium subjected to a time-harmonic stress wave. <i>Engineering Fracture Mechanics</i> , 2020, 223, 106801.	2.0	7
49	Solutions of P-SV and SV-P waves in single-well imaging through reciprocity relations. <i>Geophysics</i> , 2020, 85, D245-D259.	1.4	6
50	Frequency-dependent anisotropy in porous rocks with aligned cracks containing compressible fluid-a model based on poroelastic spring condition and exact solution of scattering by a circular crack at oblique incidence. <i>Geophysical Journal International</i> , 2021, 226, 1105-1129.	1.0	6
51	Moment tensors of a dislocation in a porous medium. <i>Pure and Applied Geophysics</i> , 2016, 173, 2033-2045.	0.8	5
52	A semianalytical approach to calculate the reflected wave of an eccentric source in a borehole. <i>Geophysics</i> , 2019, 84, D1-D9.	1.4	5
53	High-resolution inversion for dispersion characteristics of acoustic logging waveforms. <i>Journal of Geophysics and Engineering</i> , 2020, 17, 439-450.	0.7	5
54	A study on the influence of salinity interfaces on borehole seismoelectric wavefields. <i>Geophysics</i> , 2020, 85, D167-D180.	1.4	5

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55	Fracture analysis on an infinite row of collinear permeable cracks in a porous medium. <i>Engineering Fracture Mechanics</i> , 2020, 232, 107050.	2.0	4
56	Attenuation and dispersion of P-waves in fluid-saturated porous rocks with a distribution of coplanar cracks – Scattering approach. <i>Geophysics</i> , 2021, 86, MR81-MR93.	1.4	4
57	Combination of FDTD With Analytical Methods for Simulating Elastic Scattering of 3-D Objects Outside a Fluid-Filled Borehole. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 5325-5334.	2.7	3
58	Simulation of borehole acoustic wavefields in fractured media by combining the spectral-element method and linear-slip model. <i>Geophysics</i> , 2021, 86, D177-D192.	1.4	3
59	The electric field induced by the fast P-wave and its nonexistence in a dynamically compatible porous medium. , 2009, , .		3
60	The mechanical responses in monopole acoustic LWD and their relation with the output voltage waveform. <i>Journal of Geophysics and Engineering</i> , 2021, 18, 712-724.	0.7	2
61	Seismic Sources in Stress-Induced Anisotropic Media. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	2
62	Finite-difference modeling of electroacoustic logging response in fluid-saturated porous formation. , 2007, , .		1
63	2D seismoelectric log simulation using a finite-difference method. , 2009, , .		1
64	Rail crack detection based on the adaptive noise cancellation method of EMD at high speed. , 2017, , .		1
65	Determination of Electroosmotic Pressure by Two Pressure Transducers. , 2017, , .		1
66	Inversion of formation shear speed from dipole Scholte wave during logging while drilling in slow formations. <i>Proceedings of Meetings on Acoustics</i> , 2017, , .	0.3	1
67	Successive measurements of streaming potential and electroosmotic pressure with the same core-holder. <i>Journal of Applied Geophysics</i> , 2018, 152, 48-55.	0.9	1
68	Modified multiplying-factor integration method for solving exponential function dual integrals in crack problems. <i>Acta Mechanica Sinica/Lixue Xuebao</i> , 2022, 38, .	1.5	1
69	Simulation of Monopole and Multipole Seismoelectric Logging. <i>Advances in Acoustics and Vibration</i> , 2011, 2011, 1-10.	0.5	0
70	Solutions for Effective Shear Properties in a Three-Phase Poroelastic Sphere Model. , 2017, , .		0
71	AE detection of crack signal in tank shell using the multi-sensors with adaptive weighted fusion method. , 2018, , .		0
72	Scattering problems for a rectangular crack in a saturated porous material: application of the Chebyshev's functions. <i>Waves in Random and Complex Media</i> , 0, , 1-30.	1.6	0

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73	Chemical free energy profiles for martensitic transformation of CuAlNi at finite temperatures. Computational Materials Science, 2021, 195, 110478.	1.4	0
74	The low-frequency asymptotic velocity of pseudo-Rayleigh, flexural, and screw modes in anisotropic formations. , 2009, , .		0