

Jose M Carcione

List of Publications by Year in descending order

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361
papers

10,980
citations

26567

56
h-index

48187

88
g-index

375
all docs

375
docs citations

375
times ranked

3822
citing authors

#	ARTICLE	IF	CITATIONS
1	Wave propagation simulation in a linear viscoelastic medium. <i>Geophysical Journal International</i> , 1988, 95, 597-611.	1.0	280
2	P-wave seismic attenuation by slow-wave diffusion: Effects of inhomogeneous rock properties. <i>Geophysics</i> , 2006, 71, O1-O8.	1.4	236
3	Seismic modeling. <i>Geophysics</i> , 2002, 67, 1304-1325.	1.4	233
4	A Simulation of a COVID-19 Epidemic Based on a Deterministic SEIR Model. <i>Frontiers in Public Health</i> , 2020, 8, 230.	1.3	216
5	Wave propagation simulation in a linear viscoacoustic medium. <i>Geophysical Journal International</i> , 1988, 93, 393-401.	1.0	215
6	Bottom-simulating reflectors: Seismic velocities and AVO effects. <i>Geophysics</i> , 2000, 65, 54-67.	1.4	186
7	Rock anelasticity due to patchy saturation and fabric heterogeneity: A double porosity model of wave propagation. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 1949-1976.	1.4	179
8	Elastic velocity models for gas-hydrate-bearing sediments-a comparison. <i>Geophysical Journal International</i> , 2004, 159, 573-590.	1.0	174
9	Cross-property relations between electrical conductivity and the seismic velocity of rocks. <i>Geophysics</i> , 2007, 72, E193-E204.	1.4	165
10	Time-domain Modeling of Constant- Q Seismic Waves Using Fractional Derivatives. <i>Pure and Applied Geophysics</i> , 2002, 159, 1719-1736.	0.8	161
11	Wave propagation in anisotropic linear viscoelastic media: theory and simulated wavefields. <i>Geophysical Journal International</i> , 1990, 101, 739-750.	1.0	158
12	Numerical simulation of interface waves by high-order spectral modeling techniques. <i>Journal of the Acoustical Society of America</i> , 1994, 95, 681-693.	0.5	155
13	Computational poroelasticity – A review. <i>Geophysics</i> , 2010, 75, 75A229-75A243.	1.4	150
14	Biot-Rayleigh theory of wave propagation in double-porosity media. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	149
15	Physics and Seismic Modeling for Monitoring CO2 Storage. <i>Pure and Applied Geophysics</i> , 2006, 163, 175-207.	0.8	145
16	Wave propagation in anisotropic, saturated porous media: Plane-wave theory and numerical simulation. <i>Journal of the Acoustical Society of America</i> , 1996, 99, 2655-2666.	0.5	143
17	SOME ASPECTS OF THE PHYSICS AND NUMERICAL MODELING OF BIOT COMPRESSIONAL WAVES. <i>Journal of Computational Acoustics</i> , 1995, 03, 261-280.	1.0	140
18	Viscoacoustic wave propagation simulation in the earth. <i>Geophysics</i> , 1988, 53, 769-777.	1.4	136

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19	Ground-penetrating radar: Wave theory and numerical simulation in lossy anisotropic media. <i>Geophysics</i> , 1996, 61, 1664-1677.	1.4	136
20	White's model for wave propagation in partially saturated rocks: Comparison with poroelastic numerical experiments. <i>Geophysics</i> , 2003, 68, 1389-1398.	1.4	134
21	A generalization of the Fourier pseudospectral method. <i>Geophysics</i> , 2010, 75, A53-A56.	1.4	133
22	Seismic modeling in viscoelastic media. <i>Geophysics</i> , 1993, 58, 110-120.	1.4	125
23	Estimation of gas hydrate concentration from multi-component seismic data at sites on the continental margins of NW Svalbard and the Storegga region of Norway. <i>Marine and Petroleum Geology</i> , 2008, 25, 744-758.	1.5	114
24	A model for seismic velocity and attenuation in petroleum source rocks. <i>Geophysics</i> , 2000, 65, 1080-1092.	1.4	111
25	Constitutive model and wave equations for linear, viscoelastic, anisotropic media. <i>Geophysics</i> , 1995, 60, 537-548.	1.4	109
26	Acoustic properties of sediments saturated with gas hydrate, free gas and water. <i>Geophysical Prospecting</i> , 2003, 51, 141-158.	1.0	105
27	Approximating constant- Q seismic propagation in the time domain. <i>Geophysical Prospecting</i> , 2013, 61, 931-940.	1.0	105
28	Theory and modelling of constant- Q P- and S-waves using fractional spatial derivatives. <i>Geophysical Journal International</i> , 2014, 196, 1787-1795.	1.0	103
29	Theory and modeling of constant- Q P- and S-waves using fractional time derivatives. <i>Geophysics</i> , 2009, 74, T1-T11.	1.4	88
30	Compressional wave dispersion due to rock matrix stiffening by clay squirt flow. <i>Geophysical Research Letters</i> , 2016, 43, 6186-6195.	1.5	88
31	Viscoelastic effective rheologies for modelling wave propagation in porous media. <i>Geophysical Prospecting</i> , 1998, 46, 249-270.	1.0	83
32	Source-rock seismic-velocity models: Gassmann versus Backus. <i>Geophysics</i> , 2011, 76, N37-N45.	1.4	83
33	On the acoustic-electromagnetic analogy. <i>Wave Motion</i> , 1995, 21, 149-162.	1.0	81
34	Long-wave anisotropy in stratified media: A numerical test. <i>Geophysics</i> , 1991, 56, 245-254.	1.4	79
35	A spectral scheme for wave propagation simulation in 3-D elastic anisotropic media. <i>Geophysics</i> , 1992, 57, 1593-1607.	1.4	77
36	A generalized Biot-Gassmann model for the acoustic properties of shaley sandstones1. <i>Geophysical Prospecting</i> , 2000, 48, 539-557.	1.0	77

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37	Velocity and attenuation in partially saturated rocks: poroelastic numerical experiments. <i>Geophysical Prospecting</i> , 2003, 51, 551-566.	1.0	77
38	Rock-physics templates for clay-rich source rocks. <i>Geophysics</i> , 2015, 80, D481-D500.	1.4	77
39	Numerical Solution of the Poroviscoelastic Wave Equation on a Staggered Mesh. <i>Journal of Computational Physics</i> , 1999, 154, 520-527.	1.9	76
40	ANISOTROPIC Q AND VELOCITY DISPERSION OF FINELY LAYERED MEDIA1. <i>Geophysical Prospecting</i> , 1992, 40, 761-783.	1.0	75
41	The wave equation in generalized coordinates. <i>Geophysics</i> , 1994, 59, 1911-1919.	1.4	75
42	Wave Simulation in Frozen Porous Media. <i>Journal of Computational Physics</i> , 2001, 170, 676-695.	1.9	74
43	Differential form and numerical implementation of Biot's poroelasticity equations with squirt dissipation. <i>Geophysics</i> , 2011, 76, N55-N64.	1.4	74
44	3-D ground-penetrating radar simulation and plane-wave theory in anisotropic media. <i>Geophysics</i> , 2000, 65, 1527-1541.	1.4	73
45	AVO effects of a hydrocarbon source-rock layer. <i>Geophysics</i> , 2001, 66, 419-427.	1.4	68
46	Gas-hydrate concentration estimated from P- and S-wave velocities at the Mallik 2L-38 research well, Mackenzie Delta, Canada. <i>Journal of Applied Geophysics</i> , 2004, 56, 73-78.	0.9	68
47	3-D wave simulation in anelastic media using the Kelvin-Voigt constitutive equation. <i>Journal of Computational Physics</i> , 2004, 196, 282-297.	1.9	68
48	Reflection and transmission of P-q plane waves at a plane boundary between viscoelastic transversely isotropic media. <i>Geophysical Journal International</i> , 1997, 129, 669-680.	1.0	67
49	WAVE-PROPAGATION SIMULATION IN AN ELASTIC ANISOTROPIC (TRANSVERSELY ISOTROPIC) SOLID. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 1988, 41, 319-346.	0.5	66
50	Full frequency-range transient solution for compressional waves in a fluid-saturated viscoacoustic porous medium1. <i>Geophysical Prospecting</i> , 1996, 44, 99-129.	1.0	64
51	Acoustic and electromagnetic properties of soils saturated with salt water and NAPL. <i>Journal of Applied Geophysics</i> , 2003, 52, 177-191.	0.9	64
52	A rheological model for anelastic anisotropic media with applications to seismic wave propagation. <i>Geophysical Journal International</i> , 1994, 119, 338-348.	1.0	61
53	Attenuation tomography: An application to gas-hydrate and free-gas detection. <i>Geophysical Prospecting</i> , 2007, 55, 655-669.	1.0	61
54	Angular and Frequency-Dependent Wave Velocity and Attenuation in Fractured Porous Media. <i>Pure and Applied Geophysics</i> , 2013, 170, 1673-1683.	0.8	61

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55	Estimation of glacier thicknesses and basal properties using the horizontal-to-vertical component spectral ratio (HVSR) technique from passive seismic data. <i>Journal of Glaciology</i> , 2017, 63, 229-248.	1.1	61
56	An accurate and efficient scheme for wave propagation in linear viscoelastic media. <i>Geophysics</i> , 1990, 55, 1366-1379.	1.4	59
57	Staggered mesh for the anisotropic and viscoelastic wave equation. <i>Geophysics</i> , 1999, 64, 1863-1866.	1.4	59
58	Wave propagation in partially saturated porous media: simulation of a second slow wave. <i>Wave Motion</i> , 2004, 39, 227-240.	1.0	59
59	Seismic and ultrasonic velocities in permafrost. <i>Geophysical Prospecting</i> , 1998, 46, 441-454.	1.0	58
60	Physics and Simulation of Wave Propagation in Linear Thermoporoelastic Media. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 8147-8166.	1.4	58
61	Numerical simulation of the Biot slow wave in water-saturated Nivelsteiner Sandstone. <i>Geophysics</i> , 2001, 66, 890-896.	1.4	56
62	Estimation of pore microstructure by using the static and dynamic moduli. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2019, 113, 24-30.	2.6	56
63	A spectral numerical method for electromagnetic diffusion. <i>Geophysics</i> , 2006, 71, 11-19.	1.4	54
64	The physics and simulation of wave propagation at the ocean bottom. <i>Geophysics</i> , 2004, 69, 825-839.	1.4	52
65	Energy balance and fundamental relations in anisotropic-viscoelastic media. <i>Wave Motion</i> , 1993, 18, 11-20.	1.0	51
66	Wave Simulation in Biologic Media Based on the Kelvin-Voigt Fractional-Derivative Stress-Strain Relation. <i>Ultrasound in Medicine and Biology</i> , 2011, 37, 996-1004.	0.7	50
67	Modeling anelastic singular surface waves in the earth. <i>Geophysics</i> , 1992, 57, 781-792.	1.4	48
68	Simulation of stress waves in attenuating drill strings, including piezoelectric sources and sensors. <i>Journal of the Acoustical Society of America</i> , 2000, 108, 53-64.	0.5	48
69	Wave simulation in partially frozen porous media with fractal freezing conditions. <i>Journal of Applied Physics</i> , 2003, 94, 7839.	1.1	48
70	Simulation of wave propagation in linear thermoelastic media. <i>Geophysics</i> , 2019, 84, T1-T11.	1.4	48
71	Domain decomposition for wave propagation problems. <i>Journal of Scientific Computing</i> , 1991, 6, 453-472.	1.1	47
72	Wave velocities and attenuation of shaley sandstones as a function of pore pressure and partial saturation. <i>Geophysical Prospecting</i> , 2002, 50, 615-627.	1.0	47

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73	Estimation of porosity and fluid saturation in carbonates from rock-physics templates based on seismic Q . <i>Geophysics</i> , 2019, 84, M25-M36.	1.4	47
74	Effects of attenuation and anisotropy on reflection amplitude versus offset. <i>Geophysics</i> , 1998, 63, 1652-1658.	1.4	46
75	Pore pressure estimation in reservoir rocks from seismic reflection data. <i>Geophysics</i> , 2003, 68, 1569-1579.	1.4	46
76	Estimation of gas-hydrate concentration and free-gas saturation at the Norwegian-Svalbard continental margin. <i>Geophysical Prospecting</i> , 2005, 53, 803-810.	1.0	46
77	P-wave seismic attenuation by slow-wave diffusion: Numerical experiments in partially saturated rocks. <i>Geophysics</i> , 2007, 72, N11-N21.	1.4	45
78	Anisotropic poroelasticity and wave-induced fluid flow: harmonic finite-element simulations. <i>Geophysical Journal International</i> , 2011, 186, 1245-1254.	1.0	45
79	Cross-hole electromagnetic and seismic modeling for CO ₂ detection and monitoring in a saline aquifer. <i>Journal of Petroleum Science and Engineering</i> , 2012, 100, 162-172.	2.1	45
80	Gas generation and overpressure: Effects on seismic attributes. <i>Geophysics</i> , 2000, 65, 1769-1779.	1.4	44
81	Multiscale rock-physics templates for gas detection in carbonate reservoirs. <i>Journal of Applied Geophysics</i> , 2013, 93, 77-82.	0.9	41
82	Anisotropy and crystalline fabric of Whillans Ice Stream (West Antarctica) inferred from multicomponent seismic data. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 4237-4262.	1.4	41
83	Ultrasonic wave attenuation dependence on saturation in tight oil siltstones. <i>Journal of Petroleum Science and Engineering</i> , 2019, 179, 1114-1122.	2.1	41
84	SIMULATION OF WAVES IN PORO-VISCOELASTIC ROCKS SATURATED BY IMMISCIBLE FLUIDS: NUMERICAL EVIDENCE OF A SECOND SLOW WAVE. <i>Journal of Computational Acoustics</i> , 2004, 12, 1-21.	1.0	39
85	Elastic surface waves in crystals. Part 1: Review of the physics. <i>Ultrasonics</i> , 2011, 51, 653-660.	2.1	39
86	Forbidden directions for inhomogeneous pure shear waves in dissipative anisotropic media. <i>Geophysics</i> , 1995, 60, 522-530.	1.4	38
87	Elastodynamics of a non-ideal interface: Application to crack and fracture scattering. <i>Journal of Geophysical Research</i> , 1996, 101, 28177-28188.	3.3	38
88	A model for wave propagation in a composite solid matrix saturated by a single-phase fluid. <i>Journal of the Acoustical Society of America</i> , 2004, 115, 2749-2760.	0.5	38
89	Theory and simulation of time-fractional fluid diffusion in porous media. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013, 46, 345501.	0.7	38
90	Wave Propagation in Infinitely Porosity Media. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021266.	1.4	38

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91	Estimation of gas-hydrate concentration and free-gas saturation from log and seismic data. The Leading Edge, 2001, 20, 200-203.	0.4	37
92	Theory of borehole stability when drilling through salt formations. Geophysics, 2006, 71, F31-F47.	1.4	36
93	An electromagnetic modelling tool for the detection of hydrocarbons in the subsoil. Geophysical Prospecting, 2000, 48, 231-256.	1.0	35
94	A viscoelastic representation of wave attenuation in porous media. Computers and Geosciences, 2010, 36, 44-53.	2.0	35
95	Rayleigh waves in isotropic viscoelastic media. Geophysical Journal International, 1992, 108, 453-464.	1.0	34
96	Simulation of surface waves in porous media. Geophysical Journal International, 2010, 183, 820-832.	1.0	34
97	Seismic attenuation due to heterogeneities of rock fabric and fluid distribution. Geophysical Journal International, 2015, 202, 1843-1847.	1.0	34
98	Poisson's ratio at high pore pressure. Geophysical Prospecting, 2002, 50, 97-106.	1.0	33
99	On the evaluation of plane-wave reflection coefficients in anelastic media. Geophysical Journal International, 2008, 175, 94-102.	1.0	33
100	High-order spectral element method for elastic wave modeling. , 1992, , .		31
101	Wavefronts in dissipative anisotropic media. Geophysics, 1994, 59, 644-657.	1.4	31
102	A constitutive equation and generalized Gassmann modulus for multimineral porous media. Geophysics, 2005, 70, N17-N26.	1.4	31
103	Amplitude variations with offset of pressure-seal reflections. Geophysics, 2001, 66, 283-293.	1.4	31
104	A new insight into the reciprocity principle. Geophysics, 2000, 65, 1604-1612.	1.4	30
105	Seismic Rheological Model and Reflection Coefficients of the Brittle-Ductile Transition. Pure and Applied Geophysics, 2013, 170, 2021-2035.	0.8	30
106	Reflection and Transmission of Plane Elastic Waves at an Interface Between Two Double-Porosity Media: Effect of Local Fluid Flow. Surveys in Geophysics, 2020, 41, 283-322.	2.1	30
107	Attenuation and quality factor surfaces in anisotropic-viscoelastic media. Mechanics of Materials, 1995, 19, 311-327.	1.7	29
108	The seismic response to overpressure: a modelling study based on laboratory, well and seismic data. Geophysical Prospecting, 2001, 49, 523-539.	1.0	29

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109	anisotropy in finely layered media. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	29
110	Sensitivity of seismic properties to temperature variations in a geothermal reservoir. <i>Geothermics</i> , 2018, 76, 149-163.	1.5	29
111	On the Kramers-Kronig relations. <i>Rheologica Acta</i> , 2019, 58, 21-28.	1.1	29
112	Ground radar simulation for archaeological applications1. <i>Geophysical Prospecting</i> , 1996, 44, 871-888.	1.0	28
113	Joint PP and PS Pre-stack Seismic Inversion for Stratified Models Based on the Propagator Matrix Forward Engine. <i>Surveys in Geophysics</i> , 2020, 41, 987-1028.	2.1	28
114	Acoustic and mechanical response of reservoir rocks under variable saturation and effective pressure. <i>Journal of the Acoustical Society of America</i> , 2003, 113, 1801-1811.	0.5	27
115	Numerical simulation of ultrasonic waves in reservoir rocks with patchy saturation and fractal petrophysical properties. <i>Computational Geosciences</i> , 2005, 9, 1-27.	1.2	27
116	A poroelastic model for wave propagation in partially frozen orange juice. <i>Journal of Food Engineering</i> , 2007, 80, 11-17.	2.7	27
117	Simulation of upscaling effects due to wave-induced fluid flow in Biot media using the finite-element method. <i>Journal of Applied Geophysics</i> , 2007, 62, 193-203.	0.9	27
118	Theory of wave propagation in partially saturated double-porosity rocks: a triple-layer patchy model. <i>Geophysical Journal International</i> , 2016, 205, 22-37.	1.0	27
119	On the Green function of the Lord-Shulman thermoelasticity equations. <i>Geophysical Journal International</i> , 2020, 220, 393-403.	1.0	27
120	Effects of pressure and saturating fluid on wave velocity and attenuation in anisotropic rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2003, 40, 389-403.	2.6	26
121	The velocity of energy through a dissipative medium. <i>Geophysics</i> , 2010, 75, T37-T47.	1.4	26
122	Numerical simulation of wave-induced fluid flow seismic attenuation based on the Cole-Cole model. <i>Journal of the Acoustical Society of America</i> , 2017, 142, 134-145.	0.5	26
123	Seismic Wave Propagation in Partially Saturated Rocks With a Fractal Distribution of Fluid Patch Size. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	26
124	Energy balance and fundamental relations in dynamic anisotropic poro-viscoelasticity. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2001, 457, 331-348.	1.0	25
125	Numerical test of the Schoenberg-Muir theory. <i>Geophysics</i> , 2012, 77, C27-C35.	1.4	25
126	Fracture-Induced Anisotropic Attenuation. <i>Rock Mechanics and Rock Engineering</i> , 2012, 45, 929.	2.6	25

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127	A memory model of sedimentation in water reservoirs. <i>Journal of Hydrology</i> , 2013, 476, 426-432.	2.3	25
128	Rock-physics templates based on seismic Q . <i>Geophysics</i> , 2019, 84, MR13-MR23.	1.4	25
129	Hysteresis cycles and fatigue criteria using anelastic models based on fractional derivatives. <i>Rheologica Acta</i> , 2011, 50, 107-115.	1.1	24
130	Seismic modeling to monitor CO ₂ geological storage: The Atzbach-Schwanenstadt gas field. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
131	Poroacoustoelasticity of fluid-saturated rocks. <i>Geophysical Prospecting</i> , 2013, 61, 599-612.	1.0	24
132	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
133	Comparison of P -wave attenuation models of wave-induced flow. <i>Geophysical Prospecting</i> , 2015, 63, 378-390.	1.0	24
134	Joint PP and PS pre-stack AVA inversion for VTI medium based on the exact Graebner equation. <i>Journal of Petroleum Science and Engineering</i> , 2020, 194, 107416.	2.1	24
135	Canonical analytical solutions of wave-induced thermoelastic attenuation. <i>Geophysical Journal International</i> , 2020, 221, 835-842.	1.0	24
136	GPR modeling study in a contaminated area of Krzywa Air Base (Poland). <i>Geophysics</i> , 2000, 65, 521-525.	1.4	23
137	Modeling wave propagation in cracked porous media with penny-shaped inclusions. <i>Geophysics</i> , 2019, 84, WA141-WA151.	1.4	23
138	Estimation of microfracture porosity in deep carbonate reservoirs based on 3D rock-physics templates. <i>Interpretation</i> , 2020, 8, SP43-SP52.	0.5	23
139	Reflection and transmission coefficients of a fracture in transversely isotropic media. <i>Studia Geophysica Et Geodaetica</i> , 2012, 56, 307-322.	0.3	22
140	Reverse time imaging of ground-penetrating radar and SH-seismic data including the effects of wave loss. <i>Geophysics</i> , 2016, 81, H21-H32.	1.4	22
141	Hybrid multiplicative time-reversal imaging reveals the evolution of microseismic events: Theory and field-data tests. <i>Geophysics</i> , 2019, 84, KS71-KS83.	1.4	22
142	Green's function of the Lord-Shulman thermo-poroelasticity theory. <i>Geophysical Journal International</i> , 2020, 221, 1765-1776.	1.0	22
143	Wave reflection at an anelastic transversely isotropic ocean bottom. <i>Geophysics</i> , 2007, 72, SM139-SM146.	1.4	21
144	A physical solution for plane SH waves in anelastic media. <i>Geophysical Journal International</i> , 2017, 209, 661-671.	1.0	21

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145	Wavefronts in dissipative anisotropic media: Comparison of the plane-wave theory with numerical modeling. <i>Geophysics</i> , 1996, 61, 857-861.	1.4	20
146	Non-equilibrium compaction and abnormal pore-fluid pressures: effects on rock properties1. <i>Geophysical Prospecting</i> , 2000, 48, 521-537.	1.0	20
147	Kerogen to oil conversion in source rocks. Pore-pressure build-up and effects on seismic velocities. <i>Journal of Applied Geophysics</i> , 2011, 74, 229-235.	0.9	20
148	Numerical experiments of fracture-induced velocity and attenuation anisotropy. <i>Geophysical Journal International</i> , 0, , .	1.0	20
149	Reflection and transmission coefficients of a single layer in poroelastic media. <i>Journal of the Acoustical Society of America</i> , 2014, 135, 3151-3162.	0.5	20
150	Differential poroelasticity model for wave dissipation in self-similar rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2020, 128, 104281.	2.6	20
151	Modeling Extreme-Event Precursors with the Fractional Diffusion Equation. <i>Fractional Calculus and Applied Analysis</i> , 2015, 18, 208-222.	1.2	19
152	On energy definition in electromagnetism: An analogy with viscoelasticity. <i>Journal of the Acoustical Society of America</i> , 1999, 105, 626-632.	0.5	18
153	On the Acoustic-Electromagnetic Analogy for the Reflection-Refraction Problem. <i>Studia Geophysica Et Geodaetica</i> , 2002, 46, 321-346.	0.3	18
154	Optimal seismic-data acquisition in very shallow waters: Surveys in the Venice lagoon. <i>Geophysics</i> , 2008, 73, Q59-Q63.	1.4	18
155	Theory and numerical simulation of fluid-pressure diffusion in anisotropic porous media. <i>Geophysics</i> , 2009, 74, N31-N39.	1.4	18
156	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
157	Radiation patterns for 2-D GPR forward modeling. <i>Geophysics</i> , 1998, 63, 424-430.	1.4	17
158	Sound velocity of drilling mud saturated with reservoir gas. <i>Geophysics</i> , 2000, 65, 646-651.	1.4	17
159	Fresnel reflection coefficients for GPR-IVA analysis and detection of seawater and NAPL contaminants. <i>Near Surface Geophysics</i> , 2006, 4, 253-263.	0.6	17
160	Viscoelastic-stiffness tensor of anisotropic media from oscillatory numerical experiments. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011, 200, 896-904.	3.4	17
161	Cross-well seismic and electromagnetic tomography for CO2 detection and monitoring in a saline aquifer. <i>Journal of Petroleum Science and Engineering</i> , 2015, 133, 245-257.	2.1	17
162	Two-dimensional simulation of Rayleigh waves with staggered sine/cosine transforms and variable grid spacing. <i>Geophysics</i> , 2010, 75, T133-T140.	1.4	16

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163	Evaluation of the stiffness tensor of a fractured medium with harmonic experiments. Computer Methods in Applied Mechanics and Engineering, 2012, 247-248, 130-145.	3.4	16
164	Generalized Thermo-poroelasticity Equations and Wave Simulation. Surveys in Geophysics, 2021, 42, 133-157.	2.1	16
165	GPR modelling by the Fourier method: improvement of the algorithm. Geophysical Prospecting, 1999, 47, 1015-1029.	1.0	15
166	Seismic modeling study of the Earth's deep crust. Geophysics, 2003, 68, 656-664.	1.4	15
167	3D seismic modeling in geothermal reservoirs with a distribution of steam patch sizes, permeabilities and saturations, including ductility of the rock frame. Physics of the Earth and Planetary Interiors, 2018, 279, 67-78.	0.7	15
168	The Burgers/squirt-flow seismic model of the crust and mantle. Physics of the Earth and Planetary Interiors, 2018, 274, 14-22.	0.7	15
169	Plane-layered models for the analysis of wave propagation in reservoir environments1. Geophysical Prospecting, 1996, 44, 3-26.	1.0	14
170	Forbidden directions for TM waves in anisotropic conducting media. IEEE Transactions on Antennas and Propagation, 1997, 45, 133-139.	3.1	14
171	Nonlinear and dispersive acoustic wave propagation. Geophysics, 2004, 69, 840-848.	1.4	14
172	Simulation of seismic waves at the earth's crust (brittleâ€“ductile transition) based on the Burgers model. Solid Earth, 2014, 5, 1001-1010.	1.2	14
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