

Jose M Carcione

List of Publications by Year in descending order

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362
papers

10,980
citations

26626

56
h-index

48312

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.	2.4	280
2	P-wave seismic attenuation by slow-wave diffusion: Effects of inhomogeneous rock properties. <i>Geophysics</i> , 2006, 71, O1-O8.	2.6	236
3	Seismic modeling. <i>Geophysics</i> , 2002, 67, 1304-1325.	2.6	233
4	A Simulation of a COVID-19 Epidemic Based on a Deterministic SEIR Model. <i>Frontiers in Public Health</i> , 2020, 8, 230.	2.7	216
5	Wave propagation simulation in a linear viscoacoustic medium. <i>Geophysical Journal International</i> , 1988, 93, 393-401.	2.4	215
6	Bottom-simulating reflectors: Seismic velocities and AVO effects. <i>Geophysics</i> , 2000, 65, 54-67.	2.6	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.	3.4	179
8	Elastic velocity models for gas-hydrate-bearing sediments-a comparison. <i>Geophysical Journal International</i> , 2004, 159, 573-590.	2.4	174
9	Cross-property relations between electrical conductivity and the seismic velocity of rocks. <i>Geophysics</i> , 2007, 72, E193-E204.	2.6	165
10	Time-domain Modeling of Constant- Q Seismic Waves Using Fractional Derivatives. <i>Pure and Applied Geophysics</i> , 2002, 159, 1719-1736.	1.9	161
11	Wave propagation in anisotropic linear viscoelastic media: theory and simulated wavefields. <i>Geophysical Journal International</i> , 1990, 101, 739-750.	2.4	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.	1.1	155
13	Computational poroelasticity – A review. <i>Geophysics</i> , 2010, 75, 75A229-75A243.	2.6	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.	1.9	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.	1.1	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.	2.6	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.	2.6	136
20	White's model for wave propagation in partially saturated rocks: Comparison with poroelastic numerical experiments. <i>Geophysics</i> , 2003, 68, 1389-1398.	2.6	134
21	A generalization of the Fourier pseudospectral method. <i>Geophysics</i> , 2010, 75, A53-A56.	2.6	133
22	Seismic modeling in viscoelastic media. <i>Geophysics</i> , 1993, 58, 110-120.	2.6	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.	3.3	114
24	A model for seismic velocity and attenuation in petroleum source rocks. <i>Geophysics</i> , 2000, 65, 1080-1092.	2.6	111
25	Constitutive model and wave equations for linear, viscoelastic, anisotropic media. <i>Geophysics</i> , 1995, 60, 537-548.	2.6	109
26	Acoustic properties of sediments saturated with gas hydrate, free gas and water. <i>Geophysical Prospecting</i> , 2003, 51, 141-158.	1.9	105
27	Approximating constant- Q seismic propagation in the time domain. <i>Geophysical Prospecting</i> , 2013, 61, 931-940.	1.9	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.	2.4	103
29	Theory and modeling of constant- Q P- and S-waves using fractional time derivatives. <i>Geophysics</i> , 2009, 74, T1-T11.	2.6	88
30	Compressional wave dispersion due to rock matrix stiffening by clay squirt flow. <i>Geophysical Research Letters</i> , 2016, 43, 6186-6195.	4.0	88
31	Viscoelastic effective rheologies for modelling wave propagation in porous media. <i>Geophysical Prospecting</i> , 1998, 46, 249-270.	1.9	83
32	Source-rock seismic-velocity models: Gassmann versus Backus. <i>Geophysics</i> , 2011, 76, N37-N45.	2.6	83
33	On the acoustic-electromagnetic analogy. <i>Wave Motion</i> , 1995, 21, 149-162.	2.0	81
34	Long-wave anisotropy in stratified media: A numerical test. <i>Geophysics</i> , 1991, 56, 245-254.	2.6	79
35	A spectral scheme for wave propagation simulation in 3-D elastic anisotropic media. <i>Geophysics</i> , 1992, 57, 1593-1607.	2.6	77
36	A generalized Biot-Gassmann model for the acoustic properties of shaley sandstones1. <i>Geophysical Prospecting</i> , 2000, 48, 539-557.	1.9	77

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37	Velocity and attenuation in partially saturated rocks: poroelastic numerical experiments. <i>Geophysical Prospecting</i> , 2003, 51, 551-566.	1.9	77
38	Rock-physics templates for clay-rich source rocks. <i>Geophysics</i> , 2015, 80, D481-D500.	2.6	77
39	Numerical Solution of the Poroviscoelastic Wave Equation on a Staggered Mesh. <i>Journal of Computational Physics</i> , 1999, 154, 520-527.	3.8	76
40	ANISOTROPIC Q AND VELOCITY DISPERSION OF FINELY LAYERED MEDIA ¹ . <i>Geophysical Prospecting</i> , 1992, 40, 761-783.	1.9	75
41	The wave equation in generalized coordinates. <i>Geophysics</i> , 1994, 59, 1911-1919.	2.6	75
42	Wave Simulation in Frozen Porous Media. <i>Journal of Computational Physics</i> , 2001, 170, 676-695.	3.8	74
43	Differential form and numerical implementation of Biot's poroelasticity equations with squirt dissipation. <i>Geophysics</i> , 2011, 76, N55-N64.	2.6	74
44	3-D ground-penetrating radar simulation and plane-wave theory in anisotropic media. <i>Geophysics</i> , 2000, 65, 1527-1541.	2.6	73
45	AVO effects of a hydrocarbon source-rock layer. <i>Geophysics</i> , 2001, 66, 419-427.	2.6	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.	2.1	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.	3.8	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.	2.4	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.	1.3	66
50	Full frequency-range transient solution for compressional waves in a fluid-saturated viscoacoustic porous medium ¹ . <i>Geophysical Prospecting</i> , 1996, 44, 99-129.	1.9	64
51	Acoustic and electromagnetic properties of soils saturated with salt water and NAPL. <i>Journal of Applied Geophysics</i> , 2003, 52, 177-191.	2.1	64
52	A rheological model for anelastic anisotropic media with applications to seismic wave propagation. <i>Geophysical Journal International</i> , 1994, 119, 338-348.	2.4	61
53	Attenuation tomography: An application to gas-hydrate and free-gas detection. <i>Geophysical Prospecting</i> , 2007, 55, 655-669.	1.9	61
54	Angular and Frequency-Dependent Wave Velocity and Attenuation in Fractured Porous Media. <i>Pure and Applied Geophysics</i> , 2013, 170, 1673-1683.	1.9	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.	2.2	61
56	An accurate and efficient scheme for wave propagation in linear viscoelastic media. <i>Geophysics</i> , 1990, 55, 1366-1379.	2.6	59
57	Staggered mesh for the anisotropic and viscoelastic wave equation. <i>Geophysics</i> , 1999, 64, 1863-1866.	2.6	59
58	Wave propagation in partially saturated porous media: simulation of a second slow wave. <i>Wave Motion</i> , 2004, 39, 227-240.	2.0	59
59	Seismic and ultrasonic velocities in permafrost. <i>Geophysical Prospecting</i> , 1998, 46, 441-454.	1.9	58
60	Physics and Simulation of Wave Propagation in Linear Thermoporoelastic Media. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 8147-8166.	3.4	58
61	Numerical simulation of the Biot slow wave in water-saturated Nivelsteiner Sandstone. <i>Geophysics</i> , 2001, 66, 890-896.	2.6	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.	5.8	56
63	A spectral numerical method for electromagnetic diffusion. <i>Geophysics</i> , 2006, 71, 11-19.	2.6	54
64	The physics and simulation of wave propagation at the ocean bottom. <i>Geophysics</i> , 2004, 69, 825-839.	2.6	52
65	Energy balance and fundamental relations in anisotropic-viscoelastic media. <i>Wave Motion</i> , 1993, 18, 11-20.	2.0	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.	1.5	50
67	Modeling anelastic singular surface waves in the earth. <i>Geophysics</i> , 1992, 57, 781-792.	2.6	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.	1.1	48
69	Wave simulation in partially frozen porous media with fractal freezing conditions. <i>Journal of Applied Physics</i> , 2003, 94, 7839.	2.5	48
70	Simulation of wave propagation in linear thermoelastic media. <i>Geophysics</i> , 2019, 84, T1-T11.	2.6	48
71	Domain decomposition for wave propagation problems. <i>Journal of Scientific Computing</i> , 1991, 6, 453-472.	2.3	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.	1.9	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.	2.6	47
74	Effects of attenuation and anisotropy on reflection amplitude versus offset. <i>Geophysics</i> , 1998, 63, 1652-1658.	2.6	46
75	Pore pressure estimation in reservoir rocks from seismic reflection data. <i>Geophysics</i> , 2003, 68, 1569-1579.	2.6	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.	1.9	46
77	P-wave seismic attenuation by slow-wave diffusion: Numerical experiments in partially saturated rocks. <i>Geophysics</i> , 2007, 72, N11-N21.	2.6	45
78	Anisotropic poroelasticity and wave-induced fluid flow: harmonic finite-element simulations. <i>Geophysical Journal International</i> , 2011, 186, 1245-1254.	2.4	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.	4.2	45
80	Gas generation and overpressure: Effects on seismic attributes. <i>Geophysics</i> , 2000, 65, 1769-1779.	2.6	44
81	Multiscale rock-physics templates for gas detection in carbonate reservoirs. <i>Journal of Applied Geophysics</i> , 2013, 93, 77-82.	2.1	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.	3.4	41
83	Ultrasonic wave attenuation dependence on saturation in tight oil siltstones. <i>Journal of Petroleum Science and Engineering</i> , 2019, 179, 1114-1122.	4.2	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.	3.9	39
86	Forbidden directions for inhomogeneous pure shear waves in dissipative anisotropic media. <i>Geophysics</i> , 1995, 60, 522-530.	2.6	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.	1.1	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.	2.1	38
90	Wave Propagation in Infinitely Porosity Media. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB021266.	3.4	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.	0.7	37
92	Theory of borehole stability when drilling through salt formations. Geophysics, 2006, 71, F31-F47.	2.6	36
93	An electromagnetic modelling tool for the detection of hydrocarbons in the subsol. Geophysical Prospecting, 2000, 48, 231-256.	1.9	35
94	A viscoelastic representation of wave attenuation in porous media. Computers and Geosciences, 2010, 36, 44-53.	4.2	35
95	Rayleigh waves in isotropic viscoelastic media. Geophysical Journal International, 1992, 108, 453-464.	2.4	34
96	Simulation of surface waves in porous media. Geophysical Journal International, 2010, 183, 820-832.	2.4	34
97	Seismic attenuation due to heterogeneities of rock fabric and fluid distribution. Geophysical Journal International, 2015, 202, 1843-1847.	2.4	34
98	Poisson's ratio at high pore pressure. Geophysical Prospecting, 2002, 50, 97-106.	1.9	33
99	On the evaluation of plane-wave reflection coefficients in anelastic media. Geophysical Journal International, 2008, 175, 94-102.	2.4	33
100	High-order spectral element method for elastic wave modeling. , 1992, , .		31
101	Wavefronts in dissipative anisotropic media. Geophysics, 1994, 59, 644-657.	2.6	31
102	A constitutive equation and generalized Gassmann modulus for multimineral porous media. Geophysics, 2005, 70, N17-N26.	2.6	31
103	Amplitude variations with offset of pressure-seal reflections. Geophysics, 2001, 66, 283-293.	2.6	31
104	A new insight into the reciprocity principle. Geophysics, 2000, 65, 1604-1612.	2.6	30
105	Seismic Rheological Model and Reflection Coefficients of the Brittle-Ductile Transition. Pure and Applied Geophysics, 2013, 170, 2021-2035.	1.9	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.	4.6	30
107	Attenuation and quality factor surfaces in anisotropic-viscoelastic media. Mechanics of Materials, 1995, 19, 311-327.	3.2	29
108	The seismic response to overpressure: a modelling study based on laboratory, well and seismic data. Geophysical Prospecting, 2001, 49, 523-539.	1.9	29

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109	anisotropy in finely layered media. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	29
110	Sensitivity of seismic properties to temperature variations in a geothermal reservoir. <i>Geothermics</i> , 2018, 76, 149-163.	3.4	29
111	On the Kramers-Kronig relations. <i>Rheologica Acta</i> , 2019, 58, 21-28.	2.4	29
112	Ground radar simulation for archaeological applications1. <i>Geophysical Prospecting</i> , 1996, 44, 871-888.	1.9	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.	4.6	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.	1.1	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.	2.4	27
116	A poroelastic model for wave propagation in partially frozen orange juice. <i>Journal of Food Engineering</i> , 2007, 80, 11-17.	5.2	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.	2.1	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.	2.4	27
119	On the Green function of the Lord-Shulman thermoelasticity equations. <i>Geophysical Journal International</i> , 2020, 220, 393-403.	2.4	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.	5.8	26
121	The velocity of energy through a dissipative medium. <i>Geophysics</i> , 2010, 75, T37-T47.	2.6	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.	1.1	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, .	3.4	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.	2.1	25
125	Numerical test of the Schoenberg-Muir theory. <i>Geophysics</i> , 2012, 77, C27-C35.	2.6	25
126	Fracture-Induced Anisotropic Attenuation. <i>Rock Mechanics and Rock Engineering</i> , 2012, 45, 929.	5.4	25

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127	A memory model of sedimentation in water reservoirs. <i>Journal of Hydrology</i> , 2013, 476, 426-432.	5.4	25
128	Rock-physics templates based on seismic Q . <i>Geophysics</i> , 2019, 84, MR13-MR23.	2.6	25
129	Hysteresis cycles and fatigue criteria using anelastic models based on fractional derivatives. <i>Rheologica Acta</i> , 2011, 50, 107-115.	2.4	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.	1.9	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.	3.8	24
133	Comparison of P -wave attenuation models of wave-induced flow. <i>Geophysical Prospecting</i> , 2015, 63, 378-390.	1.9	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.	4.2	24
135	Canonical analytical solutions of wave-induced thermoelastic attenuation. <i>Geophysical Journal International</i> , 2020, 221, 835-842.	2.4	24
136	GPR modeling study in a contaminated area of Krzywa Air Base (Poland). <i>Geophysics</i> , 2000, 65, 521-525.	2.6	23
137	Modeling wave propagation in cracked porous media with penny-shaped inclusions. <i>Geophysics</i> , 2019, 84, WA141-WA151.	2.6	23
138	Estimation of microfracture porosity in deep carbonate reservoirs based on 3D rock-physics templates. <i>Interpretation</i> , 2020, 8, SP43-SP52.	1.1	23
139	Reflection and transmission coefficients of a fracture in transversely isotropic media. <i>Studia Geophysica Et Geodaetica</i> , 2012, 56, 307-322.	0.5	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.	2.6	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.	2.6	22
142	Green's function of the Lord-Shulman thermo-poroelasticity theory. <i>Geophysical Journal International</i> , 2020, 221, 1765-1776.	2.4	22
143	Wave reflection at an anelastic transversely isotropic ocean bottom. <i>Geophysics</i> , 2007, 72, SM139-SM146.	2.6	21
144	A physical solution for plane SH waves in anelastic media. <i>Geophysical Journal International</i> , 2017, 209, 661-671.	2.4	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.	2.6	20
146	Non-equilibrium compaction and abnormal pore-fluid pressures: effects on rock properties1. <i>Geophysical Prospecting</i> , 2000, 48, 521-537.	1.9	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.	2.1	20
148	Numerical experiments of fracture-induced velocity and attenuation anisotropy. <i>Geophysical Journal International</i> , 0, , .	2.4	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.	1.1	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.	5.8	20
151	Modeling Extreme-Event Precursors with the Fractional Diffusion Equation. <i>Fractional Calculus and Applied Analysis</i> , 2015, 18, 208-222.	2.2	19
152	On energy definition in electromagnetism: An analogy with viscoelasticity. <i>Journal of the Acoustical Society of America</i> , 1999, 105, 626-632.	1.1	18
153	On the Acoustic-Electromagnetic Analogy for the Reflection-Refraction Problem. <i>Studia Geophysica Et Geodaetica</i> , 2002, 46, 321-346.	0.5	18
154	Optimal seismic-data acquisition in very shallow waters: Surveys in the Venice lagoon. <i>Geophysics</i> , 2008, 73, Q59-Q63.	2.6	18
155	Theory and numerical simulation of fluid-pressure diffusion in anisotropic porous media. <i>Geophysics</i> , 2009, 74, N31-N39.	2.6	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.	2.4	18
157	Radiation patterns for 2-D GPR forward modeling. <i>Geophysics</i> , 1998, 63, 424-430.	2.6	17
158	Sound velocity of drilling mud saturated with reservoir gas. <i>Geophysics</i> , 2000, 65, 646-651.	2.6	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.	1.2	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.	6.6	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.	4.2	17
162	Two-dimensional simulation of Rayleigh waves with staggered sine/cosine transforms and variable grid spacing. <i>Geophysics</i> , 2010, 75, T133-T140.	2.6	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.	6.6	16
164	Generalized Thermo-poroelasticity Equations and Wave Simulation. Surveys in Geophysics, 2021, 42, 133-157.	4.6	16
165	GPR modelling by the Fourier method: improvement of the algorithm. Geophysical Prospecting, 1999, 47, 1015-1029.	1.9	15
166	Seismic modeling study of the Earth's deep crust. Geophysics, 2003, 68, 656-664.	2.6	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.	1.9	15
168	The Burgers/squirt-flow seismic model of the crust and mantle. Physics of the Earth and Planetary Interiors, 2018, 274, 14-22.	1.9	15
169	Plane-layered models for the analysis of wave propagation in reservoir environments1. Geophysical Prospecting, 1996, 44, 3-26.	1.9	14
170	Forbidden directions for TM waves in anisotropic conducting media. IEEE Transactions on Antennas and Propagation, 1997, 45, 133-139.	5.1	14
171	Nonlinear and dispersive acoustic wave propagation. Geophysics, 2004, 69, 840-848.	2.6	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.	2.8	14
173	Waves at fluidâ€“solid interfaces: explicit versus implicit formulation of the boundary condition. Geophysical Journal International, 2018, 215, 37-48.	2.4	14
174	Dispersion and attenuation of compressional waves in tight oil reservoirs: Experiments and simulations. Applied Geophysics, 2019, 16, 33-45.	0.6	14
175	Seismic attenuation in partially molten rocks. Physics of the Earth and Planetary Interiors, 2020, 309, 106568.	1.9	14
176	Thermoelasticity and P-wave simulation based on the Cole-Cole model. Journal of Thermal Stresses, 2020, 43, 512-527.	2.0	14
177	A telegrapher equation for electric - telemetering in drill strings. IEEE Transactions on Geoscience and Remote Sensing, 2002, 40, 1047-1053.	6.3	13
178	Vector attenuation: elliptical polarization, raypaths and the Rayleigh-window effect. Geophysical Prospecting, 2006, 54, 399-407.	1.9	13
179	Seismic lowâ€“frequency anomalies in multiple reflections from thinly layered poroelastic reservoirs. , 2007, , .		13
180	Synthetic logs of multipole sources in boreholes based on the Kelvin-Voigt stress-strain relation. Geophysical Journal International, 2008, 174, 808-814.	2.4	13

#	ARTICLE	IF	CITATIONS
181	Rock-physics analysis of clay-rich source rocks on the Norwegian Shelf. <i>The Leading Edge</i> , 2015, 34, 1340-1348.	0.7	13
182	Squirt-flow seismic dispersion models: a comparison. <i>Geophysical Journal International</i> , 2020, 222, 2068-2082.	2.4	13
183	Simulation of thermoelastic waves based on the Lord-Shulman theory. <i>Geophysics</i> , 2021, 86, T155-T164.	2.6	13
184	Data-Driven Design of Wave Propagation Models for Shale Oil Reservoirs Based on Machine Learning. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB022665.	3.4	13
185	Babinet's principle for elastic waves: A numerical test. <i>Journal of the Acoustical Society of America</i> , 1999, 105, 1485-1492.	1.1	12
186	Fast monostatic GPR modeling. <i>Geophysics</i> , 2004, 69, 466-471.	2.6	12
187	SIMULATION OF ELECTROMAGNETIC DIFFUSION IN ANISOTROPIC MEDIA. <i>Progress in Electromagnetics Research B</i> , 2010, 26, 425-450.	1.0	12
188	Effect of soil and bedrock anelasticity on the S -wave amplification function. <i>Geophysical Journal International</i> , 2017, 208, 424-431.	2.4	12
189	Effects of ellipsoidal heterogeneities on wave propagation in partially saturated double-porosity rocks. <i>Geophysics</i> , 2018, 83, WC71-WC81.	2.6	12
190	Effect of Clay and Mineralogy on Permeability. <i>Pure and Applied Geophysics</i> , 2019, 176, 2581-2594.	1.9	12
191	Effects of Fluid Rheology and Pore Connectivity on Rock Permeability Based on a Network Model. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, no.	3.4	12
192	Temperature, differential pressure, and porosity inversion for ultradeep carbonate reservoirs based on 3D rock-physics templates. <i>Geophysics</i> , 2021, 86, M77-M89.	2.6	12
193	Ground-penetrating radar and geo-electrical simulations of data from the Floridablanca archaeological site. <i>Archaeological Prospection</i> , 2005, 12, 19-30.	2.2	11
194	Determining the dilation factor in 4D monitoring of compacting reservoirs by rock-physics models. <i>Geophysical Prospecting</i> , 2007, 55, 793-804.	1.9	11
195	Simulation of axis-symmetric seismic waves in fluid-filled boreholes in the presence of a drill string. <i>Computational Geosciences</i> , 2008, 12, 593-604.	2.4	11
196	Anomalous polarization in anisotropic media. <i>European Journal of Mechanics, A/Solids</i> , 2009, 28, 704-711.	3.7	11
197	Rock physics modeling of heterogeneous carbonate reservoirs: porosity estimation and hydrocarbon detection. <i>Applied Geophysics</i> , 2014, 11, 9-22.	0.6	11
198	A model for CO ₂ storage and seismic monitoring combining multiphase fluid flow and wave propagation simulators. The Sleipner-field case. <i>Computational Geosciences</i> , 2017, 21, 223-239.	2.4	11

#	ARTICLE	IF	CITATIONS
199	A nodal discontinuous Galerkin finite element method for the poroelastic wave equation. Computational Geosciences, 2019, 23, 595-615.	2.4	11
200	A Hierarchical Prestack Seismic Inversion Scheme for VTI Media Based on the Exact Reflection Coefficient. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	6.3	11
201	Reflection tomography versus stacking velocity analysis. Journal of Applied Geophysics, 1996, 35, 1-13.	2.1	10
202	Modeling fluid injection induced microseismicity in shales. Journal of Geophysics and Engineering, 2018, 15, 234-248.	1.4	10
203	Wave simulation in double-porosity media based on the Biot-Rayleigh theory. Geophysics, 2019, 84, WA11-WA21.	2.6	10
204	Reflection of inhomogeneous plane waves at the surface of a thermo-poroelastic medium. Geophysical Journal International, 2020, 224, 1621-1639.	2.4	10
205	P- and S-wave simulation using a Cole-Cole model to incorporate thermoelastic attenuation and dispersion. Journal of the Acoustical Society of America, 2021, 149, 1946-1954.	1.1	10
206	On the Normal-Incidence Reflection Coefficient in Porous Media. Surveys in Geophysics, 2021, 42, 923-942.	4.6	10
207	Elastic-Electrical Rock-Physics Template for the Characterization of Tight-Oil Reservoir Rocks. Lithosphere, 2021, 2021, .	1.4	10
208	Simulation of seismograms in a 2-D viscoelastic Earth by pseudospectral methods. Geofisica International, 2005, 44, 123-142.	0.2	10
209	Acoustic velocity of seismic-while-drilling (SWD) borehole guided waves. Geophysics, 2002, 67, 921-927.	2.6	9
210	Elastic surface waves in crystals - Part 2: Cross-check of two full-wave numerical modeling methods. Ultrasonics, 2011, 51, 878-889.	3.9	9
211	Modeling techniques to study CO ₂ -injection induced micro-seismicity. International Journal of Greenhouse Gas Control, 2015, 42, 246-257.	4.6	9
212	Finite-element harmonic experiments to model fractured induced anisotropy in poroelastic media. Computer Methods in Applied Mechanics and Engineering, 2015, 283, 1189-1213.	6.6	9
213	Nearly perfectly matched layer absorber for viscoelastic wave equations. Geophysics, 2019, 84, T335-T345.	2.6	9
214	Rock Anelasticity, Pore Geometry and the Biot-Gardner Effect. Rock Mechanics and Rock Engineering, 2020, 53, 3969-3981.	5.4	9
215	Characterization of Gas Saturation in Tight-Sandstone Reservoirs with Rock-Physics Templates Based on Seismic Q. Journal of Energy Engineering - ASCE, 2021, 147, .	1.9	9
216	Low-frequency dispersion and attenuation in anisotropic partially saturated rocks. Geophysical Journal International, 2017, 209, 1572-1584.	2.4	9

#	ARTICLE	IF	CITATIONS
217	The generalized SH-wave equation. <i>Geophysics</i> , 1995, 60, 549-555.	2.6	8
218	Electric drill-string telemetry. <i>Journal of Computational Physics</i> , 2003, 186, 596-609.	3.8	8
219	Seismic modelling study of a subglacial lake. <i>Geophysical Prospecting</i> , 2003, 51, 501-515.	1.9	8
220	Sensitivity analysis from single-well ERT simulations to image CO ₂ migrations along wellbores. <i>The Leading Edge</i> , 2013, 32, 504-512.	0.7	8
221	Simulation of flexural waves in drill pipes including the effects of the gravitational field. <i>Wave Motion</i> , 2013, 50, 310-325.	2.0	8
222	Seismic velocity and Q anisotropy in fractured poroelastic media. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2014, 70, 212-218.	5.8	8
223	The Gassmann-Burgers Model to Simulate Seismic Waves at the Earth Crust And Mantle. <i>Pure and Applied Geophysics</i> , 2017, 174, 849-863.	1.9	8
224	Seismic attenuation, normal moveout stretch, and low-frequency shadows underlying bottom simulating reflector events. <i>Geophysical Prospecting</i> , 2018, 66, 857-871.	1.9	8
225	Seismic properties in conductive and convective hot and super-hot geothermal systems. <i>Geothermics</i> , 2019, 82, 16-33.	3.4	8
226	Modeling the wave propagation in viscoacoustic media: An efficient spectral approach in time and space domain. <i>Computers and Geosciences</i> , 2019, 126, 31-40.	4.2	8
227	Retrieving shallow shear-wave velocity profiles from 2D seismic-reflection data with severely aliased surface waves. <i>Journal of Applied Geophysics</i> , 2019, 161, 15-25.	2.1	8
228	Seismic Q of inhomogeneous plane waves in porous media. <i>Geophysics</i> , 2020, 85, T209-T224.	2.6	8
229	A rock-physics model to determine the pore microstructure of cracked porous rocks. <i>Geophysical Journal International</i> , 2020, 223, 622-631.	2.4	8
230	Bounds and averages of seismic quality factor Q. <i>Studia Geophysica Et Geodaetica</i> , 2020, 64, 100-113.	0.5	8
231	A semianalytical solution for the propagation of electromagnetic waves in 3D lossy orthotropic media. <i>Geophysics</i> , 2001, 66, 1141-1148.	2.6	8
232	Elastic medium equivalent to Fresnel's double-refraction crystal. <i>Journal of the Acoustical Society of America</i> , 2008, 124, 2053-2060.	1.1	7
233	Oscillatory numerical experiments in finely layered anisotropic viscoelastic media. <i>Computers and Geosciences</i> , 2012, 43, 83-89.	4.2	7
234	Validation of the boundary conditions to model the seismic response of fractures. <i>Geophysical Prospecting</i> , 2016, 64, 1149-1165.	1.9	7

#	ARTICLE	IF	CITATIONS
235	On the relation between sources and initial conditions for the wave and diffusion equations. Computers and Mathematics With Applications, 2017, 73, 906-913.	2.7	7
236	Broad-band viscoacoustic Q-factor imaging by seismic tomography and instantaneous frequency. Geophysical Journal International, 2018, 214, 672-686.	2.4	7
237	Effect of capillarity and relative permeability on Q anisotropy of hydrocarbon source rocks. Geophysical Journal International, 2019, 218, 1199-1209.	2.4	7
238	Waves at a fluid-solid interface: Explicit versus implicit formulation of boundary conditions using a discontinuous Galerkin method. Journal of the Acoustical Society of America, 2020, 147, 3136-3150.	1.1	7
239	Time-domain Modeling of Constant-Q Seismic Waves Using Fractional Derivatives. , 2002, , 1719-1736.		7
240	Multi-Objective Petrophysical Seismic Inversion Based on the Double-Porosity Biot's Rayleigh Model. Surveys in Geophysics, 2022, 43, 1117-1141.	4.6	7
241	Time-dependent boundary conditions for the 2-D linear anisotropic-viscoelastic wave equation. Numerical Methods for Partial Differential Equations, 1994, 10, 771-791.	3.6	6
242	Torsional waves in lossy cylinders. Journal of the Acoustical Society of America, 1998, 103, 760-766.	1.1	6
243	Weak elastic anisotropy by perturbation theory. Geophysics, 2006, 71, D45-D58.	2.6	6
244	Flexural waves in drillstring tubulars with variable loads. Geophysical Prospecting, 2013, 61, 955-972.	1.9	6
245	A rheological equation for anisotropic anelastic media and simulation of field seismograms. Wave Motion, 2014, 51, 743-757.	2.0	6
246	On Fermat's principle and Snell's law in lossy anisotropic media. Geophysics, 2016, 81, T107-T116.	2.6	6
247	A squirt-flow theory to model wave anelasticity in rocks containing compliant microfractures. Physics of the Earth and Planetary Interiors, 2020, 301, 106450.	1.9	6
248	Wave Properties of Gas-Hydrate Bearing Sediments Based on Poroelasticity. Frontiers in Earth Science, 2021, 9, .	1.8	6
249	Estimation of the Pore Microstructure of Tight-Gas Sandstone Reservoirs with Seismic Data. Frontiers in Earth Science, 2021, 9, .	1.8	6
250	3-D radiation pattern of the drilling bit source in finely stratified media. Geophysical Research Letters, 1992, 19, 717-720.	4.0	5
251	On the group velocity of guided waves in drill strings. Journal of the Acoustical Society of America, 2001, 109, 1743-1746.	1.1	5
252	Electromagnetic diffusion in anisotropic media. Radio Science, 2011, 46, .	1.6	5

#	ARTICLE	IF	CITATIONS
253	Attenuation effects on the seismic response of a bottom-simulating reflector. Journal of Natural Gas Science and Engineering, 2015, 24, 510-517.	4.4	5
254	Simultaneous inversion for velocity model and microseismic sources in layered anisotropic media. Journal of Petroleum Science and Engineering, 2019, 173, 1453-1463.	4.2	5
255	Thermoelastic Dispersion and Attenuation of P and SV Wave Scattering by Aligned Fluid-Saturated Cracks of Finite Thickness in an Isothermal Elastic Medium. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019942.	3.4	5
256	Fluid Discrimination in Ultra-Deep Reservoirs Based on a Double Double-Porosity Theory. Frontiers in Earth Science, 2021, 9, .	1.8	5
257	Poroacoustoelasticity for rocks with a dual-pore structure. Geophysics, 2021, 86, MR17-MR25.	2.6	5
258	Effect of local fluid flow on the reflection and transmission of elastic waves at an interface between an elastic solid and a double-porosity medium. Geophysics, 2020, 85, T237-T256.	2.6	5
259	Boundary conditions for wave propagation problems. Finite Elements in Analysis and Design, 1994, 16, 317-327.	3.2	4
260	The Messina-Reggio earthquake of December 28, 1908. Studia Geophysica Et Geodaetica, 2008, 52, 661-672.	0.5	4
261	On optimal NMO and generalised Dix equations for velocity determination and depth conversion. Journal of Applied Geophysics, 2014, 101, 136-141.	2.1	4
262	Numerical simulation of two-phase fluid flow. Journal of Petroleum Exploration and Production, 2014, 4, 233-243.	2.4	4
263	On the Earthquake-Source Numerical Implementation in the Seismic Wave Equation. Journal of Earthquake Engineering, 2015, 19, 48-59.	2.5	4
264	Imaging septaria geobody in the Boom Clay using a Q -compensated reverse-time migration. Geologie En Mijnbouw/Netherlands Journal of Geosciences, 2016, 95, 283-291.	0.9	4
265	Seismic spectrograms of an anelastic layer with different source-receivers configurations. Arabian Journal of Geosciences, 2016, 9, 1.	1.3	4
266	Synthetic waveforms of axial motion in a borehole with drill string. Journal of the Acoustical Society of America, 2017, 141, 828-839.	1.1	4
267	Numerical modelling of GPR electromagnetic fields for locating burial sites. E3S Web of Conferences, 2017, 24, 01002.	0.5	4
268	Backus and Wyllie Averages for Seismic Attenuation. Pure and Applied Geophysics, 2018, 175, 165-170.	1.9	4
269	Geophysical signature of a World War I tunnel-like anomaly in the Forni Glacier (Punta Linke, Italian) Tj ETQq1 1 0.784314 rgBT /Overloc	2.2	4
270	Finite-element numerical simulations of seismic attenuation in finely layered rocks. Journal of the Acoustical Society of America, 2020, 148, 1978-1983.	1.1	4

#	ARTICLE	IF	CITATIONS
271	Seismic pre-stack AVA inversion scheme based on lithology constraints. Journal of Geophysics and Engineering, 2020, 17, 411-428.	1.4	4
272	Existence and uniqueness of solutions of thermo-poroelasticity. Journal of Mathematical Analysis and Applications, 2021, 499, 124907.	1.0	4
273	Microcrack Porosity Estimation Based on Rock Physics Templates: A Case Study in Sichuan Basin, China. Energies, 2021, 14, 7225.	3.1	4
274	Reflection and transmission of thermoelastic waves in multilayered media. Geophysics, 2022, 87, MR117-MR128.	2.6	4
275	Temperature-Dependent Wave Velocities of Heavy Oil-Saturated Rocks. Lithosphere, 2022, 2021, .	1.4	4
276	Rock Acoustics of Diagenesis and Cementation. Pure and Applied Geophysics, 2022, 179, 1919-1934.	1.9	4
277	Modeling elastic waves in the presence of a borehole and free surface. , 1994, , .		3
278	25. Wave Theory, Simulation, and Determination of Gas-Hydrate Content in Sediments. , 2010, , 349-372.		3
279	Analysis of capillary pressure effect on the seismic response of a CO ₂ -storage site applying multiphase flow and wave propagation simulators. International Journal of Greenhouse Gas Control, 2015, 39, 335-348.	4.6	3
280	Porosity and permeability of the overburden from wireline logs: a case study from offshore Malaysia. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2020, 6, 1.	2.9	3
281	Basis Pursuit Anisotropic Inversion Based on the L_1 - L_2 -Norm Regularization. IEEE Geoscience and Remote Sensing Letters, 2022, 19, 1-5.	3.1	3
282	A Born-WKB Pre-Stack Seismic Inversion Based on a 3-D Structural-Geology Model Building. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-11.	6.3	3
283	Wave Simulation in Partially Saturated Porothermoelastic Media. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-14.	6.3	3
284	On the instantaneous frequency and quality factor. Geophysical Journal International, 2021, 227, 735-745.	2.4	3
285	Effective viscoelastic representation of gas-hydrate bearing sediments from finite-element harmonic experiments. Computational Geosciences, 0, , 1.	2.4	3
286	Seismic estimation of fluid saturation based on rock physics: A case study of the tight-gas sandstone reservoirs in Ordos Basin. Interpretation, 0, , 1-47.	1.1	3
287	Scattering of elastic waves by single anelastic cracks and fractures. , 1996, , .		3
288	Analysis of mesoscopic loss effects in anisotropic poroelastic media using harmonic finite element simulations. , 2011, , .		3

#	ARTICLE	IF	CITATIONS
289	Two-Phase Flow Effects on Seismic Wave Anelasticity in Anisotropic Poroelastic Media. <i>Energies</i> , 2021, 14, 6528.	3.1	3
290	EFFECT OF CAPILLARY PRESSURE ON SEISMIC VELOCITIES AND ATTENUATION. <i>Journal of Porous Media</i> , 2019, 22, 447-466.	1.9	3
291	P-wave scattering by randomly distributed aligned cracks in fractal media. <i>Geophysical Journal International</i> , 0, , .	2.4	3
292	Quality Factor of Inhomogeneous Plane Waves. <i>Acoustical Physics</i> , 2020, 66, 598-603.	1.0	3
293	Analytical solution of thermoelastic attenuation in fine layering for random variations of the GrÅ¼neisen ratio. <i>Journal of Thermal Stresses</i> , 2022, 45, 630-640.	2.0	3
294	The wave equation in generalized coordinates. , 1993, , .		2
295	Mesaverde and Green River shale anisotropies by wavefront folds and interference patterns. , 1997, , .		2
296	Observations and results of GPR modelling of sinkholes in Upper Silesia (Poland). <i>Acta Geodaetica Et Geophysica Hungarica</i> , 2001, 36, 377-389.	0.4	2
297	CNN-UM based transversely isotropic elastic wave propagation simulation. , 2007, , .		2
298	Approximating constant- Q seismic propagation in the time domain. , 2012, , .		2
299	Modeling hydraulic fracturing and induced seismicity in unconventional reservoirs using multiphase fluid-flow simulations. , 2015, , .		2
300	Seismic wave propagation in geothermal hot rocks: a review of simulation analysis and results based on Burgers models. , 2017, , .		2
301	Effect of pressure and fluid on pore geometry and anelasticity of dolomites. <i>Rheologica Acta</i> , 2020, 59, 707-716.	2.4	2
302	Wave simulation in anisotropic, saturated porous media. , 1995, , .		2
303	Three-dimensional wave propagation simulation in elastic " Anisotropic media. , 1989, , .		2
304	Influence of capillary pressure on CO ₂ storage and monitoring. , 2014, , .		2
305	Rock Physics Template Analysis of Norwegian Shelf Clay-rich Source Rocks. , 2015, , .		2
306	Mathematical analogies in physics. Thin-layer wave theory. <i>Annals of Geophysics</i> , 2014, 57, .	1.0	2

#	ARTICLE	IF	CITATIONS
307	SH-TM mathematical analogy for the two-layer case. A magnetotellurics application. <i>Advanced Electromagnetics</i> , 2017, 6, 29.	1.0	2
308	Reflection and Transmission of Inhomogeneous Plane Waves in Thermoelastic Media. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	2
309	To: "Bottom simulating reflectors: Seismic velocities and AVO effects," J. M. Carcione and U. Tinivella (<i>GEOPHYSICS</i> , 65, 54-67). <i>Geophysics</i> , 2001, 66, 984-984.	2.6	1
310	Determination of the stiffness tensor of transversely isotropic viscoelastic media using numerical oscillatory experiments. , 2010, , .		1
311	A pseudo-spectral method for simulating poro-elastic seismic wave propagation in complex borehole environments. , 2012, , .		1
312	Numerical investigation of the seismic detectability of carbonate thin beds in the Boom Clay formation. <i>Geophysical Journal International</i> , 2016, 206, 63-84.	2.4	1
313	Geophone-ground coupling with flat bases. <i>Geophysical Prospecting</i> , 2016, 64, 255-267.	1.9	1
314	Determination of a Transversely Isotropic Medium Equivalent to a Fractured Fluid-Saturated Poroelastic Medium. A Finite Element Approach. <i>SIAM Journal of Scientific Computing</i> , 2017, 39, B244-B271.	2.8	1
315	Microseismicity caused by injection of water in a gas-saturated reservoir. <i>Geophysics</i> , 2019, 84, KS183-KS189.	2.6	1
316	On the seismic response of a periodic sequence of three thin layers saturated by two-phase fluids. <i>Geophysics</i> , 2021, 86, T401-T410.	2.6	1
317	Fracture-Induced Anisotropic Attenuation. , 2012, 45, 929.		1
318	Characteristic porosity for wave dispersion in rocks. <i>Proceedings of Meetings on Acoustics</i> , 2019, , .	0.3	1
319	Estimation of gas hydrate concentration and free gas saturation from log and seismic data. , 2000, , .		1
320	Two-dimensional and three-dimensional forward modeling in isotropic viscoelastic media. , 1989, , .		1
321	3-D Rock-Physics Templates for the Seismic Prediction of Pore Microstructure in Ultra-Deep Carbonate Reservoirs. <i>Arabian Journal for Science and Engineering</i> , 0, , 1.	3.0	1
322	Radiation patterns for GPR forward modeling. , 1996, , .		1
323	Monitoring the largest North Korean nuclear explosion 2017, through Indian Seismological Network. <i>Annals of Geophysics</i> , 2019, 62, .	1.0	1
324	A New Anelasticity Model for Wave Propagation in Partially Saturated Rocks. <i>Energies</i> , 2021, 14, 7619.	3.1	1

#	ARTICLE	IF	CITATIONS
325	Estimation of the Squirt-Flow Length Based on Crack Properties in Tight Sandstones. Lithosphere, 2022, 2021, .	1.4	1
326	Wave-induced thermal flux and scattering of P waves in a medium with aligned circular cracks. Geophysics, 2022, 87, MR209-MR218.	2.6	1
327	Classical semimicroscopic model applied to doubly even titanium isotopes. Physical Review C, 1979, 19, 1535-1543.	2.9	0
328	Wavefronts in dissipative anisotropic media. , 1992, , .		0
329	Babinet's principle in acoustics. , 1998, , .		0
330	ABSORBING LAYER VIA WAVE-EQUATION SPLITTING. Journal of Computational Acoustics, 2001, 09, 1347-1354.	1.0	0
331	Low-frequency anomalies of seismic-wave reflections from poroelastic layers. , 2007, , .		0
332	18. Seismic Modeling and Wave Propagation. , 2010, , 425-441.		0
333	Correction to "Q-anisotropy in finely-layered media". Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	0
334	Determination of the stiffness tensor of a fractured medium using finite-element simulations.. , 2012, , .		0
335	Rock Physics Templates in Heterogeneous Gas Reservoir: An Application of the Biot-Rayleigh Theory. , 2013, , .		0
336	A numerical procedure to model and monitor CO2 sequestration in aquifers. Journal of Physics: Conference Series, 2013, 410, 012085.	0.4	0
337	Simulation of Poro-Elastic Seismic Wave Propagation in Complex Borehole Environments Using a Pseudo-Spectral Approach. , 2013, , .		0
338	Aligned fractures modeled as boundary conditions within saturated porous media and induced anisotropy. A finite element approach. , 2015, , .		0
339	Wave Propagation and Attenuation in Heterogeneous Reservoir Rocks. , 2015, , 9-43.		0
340	Fine Layering and Fractures: Effective Seismic Anisotropy. , 2015, , 77-155.		0
341	A Brief Overview on Seismic Attenuation. , 2019, , .		0
342	Analysis of Carbonate Rock-Physics Template Based on Seismic Q. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
343	An SEIR Epidemic Model of Fractional Order to Analyze the Evolution of the Covid-19 Epidemic in Argentina. <i>Infosys Science Foundation Series</i> , 2021, , 539-557.	0.6	0
344	Canonical solutions for wave anelasticity in rocks composed of two frames. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , 2021, 7, 1.	2.9	0
345	Effective wave dispersion and attenuation in three-periodic thin poroelastic layers saturated by two-phase fluids. , 2021, , .		0
346	Numerical study of pulse delay effects in a poroacoustic wave equation. , 2000, , .		0
347	Estimation of pore pressure by AVO inversion. , 2001, , .		0
348	Acoustic properties of an overpressured sandstone saturated by immiscible fluids. , 2001, , .		0
349	Reply by the authors to the discussion by A. T. de Hoop. <i>Geophysics</i> , 2001, 66, 975-975.	2.6	0
350	Explicit imaging expressions for weak horizontal transverse isotropy. , 2002, , .		0
351	Seismic methods to detect and quantify gas hydrate in sediments. , 2006, , .		0
352	Stoneley Wave Modeling in Heterogeneous Porous Media with Viscous Pore Fluids. , 2010, , .		0
353	Longwave anisotropy in periodically layered media: A numerical test. , 1990, , .		0
354	Two-dimensional forward modeling in anisotropic viscoelastic media. , 1990, , .		0
355	Groundpenetrating radar: Wave theory and numerical simulation in lossy anisotropic media. , 1995, , .		0
356	Multifold GPR techniques for the exploration of archaeological sites. , 1996, , .		0
357	Near-Surface Characterization of the Llanquanelo Lake Region (Argentina) by Surface-Wave Analysis of 2D Reflection Data. , 2018, , .		0
358	An efficient fully spectral method for constant-Q seismic-wave propagation. , 2018, , .		0
359	Effect of differential pressure on the pore structure and wave response of tight sandstones. , 2019, , .		0
360	P-wave attenuation characteristics of experimental observation and theoretical simulation in tight oil rocks. , 2019, , .		0

#	ARTICLE	IF	CITATIONS
361	Effective P- and S- wave moduli in finely layered thermoelastic media. , 2020, , .		0
362	Effect of mesoscopic-flow loss on seismic reflections in media with penny-shaped inclusions. Geophysical Journal International, 0, , .	2.4	0