

Jose M Carcione

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319
papers

7,418
citations

48
h-index

71
g-index

373
ext. papers

9,623
ext. citations

2.8
avg, IF

6.46
L-index

#	Paper	IF	Citations
319	Wave propagation simulation in a linear viscoelastic medium. <i>Geophysical Journal International</i> , 1988 , 95, 597-611	2.6	211
318	Seismic modeling. <i>Geophysics</i> , 2002 , 67, 1304-1325	3.1	178
317	P-wave seismic attenuation by slow-wave diffusion: Effects of inhomogeneous rock properties. <i>Geophysics</i> , 2006 , 71, O1-O8	3.1	167
316	Bottom-simulating reflectors: Seismic velocities and AVO effects. <i>Geophysics</i> , 2000 , 65, 54-67	3.1	154
315	Elastic velocity models for gas-hydrate-bearing sediments-a comparison. <i>Geophysical Journal International</i> , 2004 , 159, 573-590	2.6	142
314	Wave propagation simulation in a linear viscoacoustic medium. <i>Geophysical Journal International</i> , 1988 , 93, 393-401	2.6	124
313	Numerical simulation of interface waves by high-order spectral modeling techniques. <i>Journal of the Acoustical Society of America</i> , 1994 , 95, 681-693	2.2	120
312	Physics and Seismic Modeling for Monitoring CO2 Storage. <i>Pure and Applied Geophysics</i> , 2006 , 163, 175-207		118
311	A Simulation of a COVID-19 Epidemic Based on a Deterministic SEIR Model. <i>Frontiers in Public Health</i> , 2020 , 8, 230	6	117
310	Time-domain Modeling of Constant-Q Seismic Waves Using Fractional Derivatives. <i>Pure and Applied Geophysics</i> , 2002 , 159, 1719-1736	2.2	117
309	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	2.2	114
308	Computational poroelasticity [A review]. <i>Geophysics</i> , 2010 , 75, 75A229-75A243	3.1	109
307	Cross-property relations between electrical conductivity and the seismic velocity of rocks. <i>Geophysics</i> , 2007 , 72, E193-E204	3.1	109
306	White's model for wave propagation in partially saturated rocks: Comparison with poroelastic numerical experiments. <i>Geophysics</i> , 2003 , 68, 1389-1398	3.1	107
305	Wave propagation in anisotropic linear viscoelastic media: theory and simulated wavefields. <i>Geophysical Journal International</i> , 1990 , 101, 739-750	2.6	105
304	A generalization of the Fourier pseudospectral method. <i>Geophysics</i> , 2010 , 75, A53-A56	3.1	97
303	SOME ASPECTS OF THE PHYSICS AND NUMERICAL MODELING OF BIOT COMPRESSIONAL WAVES. <i>Journal of Computational Acoustics</i> , 1995 , 03, 261-280		96

302	Viscoacoustic wave propagation simulation in the earth. <i>Geophysics</i> , 1988 , 53, 769-777	3.1	96
301	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	4.7	95
300	Ground-penetrating radar: Wave theory and numerical simulation in lossy anisotropic media. <i>Geophysics</i> , 1996 , 61, 1664-1677	3.1	93
299	Biot-Rayleigh theory of wave propagation in double-porosity media. <i>Journal of Geophysical Research</i> , 2011 , 116,		89
298	Seismic modeling in viscoelastic media. <i>Geophysics</i> , 1993 , 58, 110-120	3.1	87
297	Acoustic properties of sediments saturated with gas hydrate, free gas and water. <i>Geophysical Prospecting</i> , 2003 , 51, 141-158	1.9	76
296	A model for seismic velocity and attenuation in petroleum source rocks. <i>Geophysics</i> , 2000 , 65, 1080-1092	3.1	76
295	Constitutive model and wave equations for linear, viscoelastic, anisotropic media. <i>Geophysics</i> , 1995 , 60, 537-548	3.1	75
294	Rock anelasticity due to patchy saturation and fabric heterogeneity: A double double-porosity model of wave propagation. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 1949	3.6	70
293	Viscoelastic effective rheologies for modelling wave propagation in porous media. <i>Geophysical Prospecting</i> , 1998 , 46, 249-270	1.9	69
292	Theory and modelling of constant-Q P- and S-waves using fractional spatial derivatives. <i>Geophysical Journal International</i> , 2014 , 196, 1787-1795	2.6	64
291	Compressional wave dispersion due to rock matrix stiffening by clay squirt flow. <i>Geophysical Research Letters</i> , 2016 , 43, 6186-6195	4.9	62
290	Velocity and attenuation in partially saturated rocks: poroelastic numerical experiments. <i>Geophysical Prospecting</i> , 2003 , 51, 551-566	1.9	61
289	Numerical Solution of the Poroviscoelastic Wave Equation on a Staggered Mesh. <i>Journal of Computational Physics</i> , 1999 , 154, 520-527	4.1	60
288	On the acoustic-electromagnetic analogy. <i>Wave Motion</i> , 1995 , 21, 149-162	1.8	59
287	The wave equation in generalized coordinates. <i>Geophysics</i> , 1994 , 59, 1911-1919	3.1	59
286	A generalized Biot-Cassmann model for the acoustic properties of shaley sandstones1. <i>Geophysical Prospecting</i> , 2000 , 48, 539-557	1.9	56
285	Rock-physics templates for clay-rich source rocks. <i>Geophysics</i> , 2015 , 80, D481-D500	3.1	55

284	Approximating constant-Q seismic propagation in the time domain. <i>Geophysical Prospecting</i> , 2013 , 61, 931-940	1.9	55
283	Theory and modeling of constant-Q P- and S-waves using fractional time derivatives. <i>Geophysics</i> , 2009 , 74, T1-T11	3.1	55
282	Differential form and numerical implementation of Biot's poroelasticity equations with squirt dissipation. <i>Geophysics</i> , 2011 , 76, N55-N64	3.1	54
281	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	1.7	54
280	Long-wave anisotropy in stratified media: A numerical test. <i>Geophysics</i> , 1991 , 56, 245-254	3.1	54
279	A spectral scheme for wave propagation simulation in 3-D elastic-anisotropic media. <i>Geophysics</i> , 1992 , 57, 1593-1607	3.1	54
278	Source-rock seismic-velocity models: Gassmann versus Backus. <i>Geophysics</i> , 2011 , 76, N37-N45	3.1	52
277	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	52
276	WAVE-PROPAGATION SIMULATION IN AN ELASTIC ANISOTROPIC (TRANSVERSELY ISOTROPIC) SOLID. <i>Quarterly Journal of Mechanics and Applied Mathematics</i> , 1988 , 41, 319-346	1	52
275	A rheological model for anelastic anisotropic media with applications to seismic wave propagation. <i>Geophysical Journal International</i> , 1994 , 119, 338-348	2.6	51
274	ANISOTROPIC Q AND VELOCITY DISPERSION OF FINELY LAYERED MEDIA ¹ . <i>Geophysical Prospecting</i> , 1992 , 40, 761-783	1.9	49
273	Reflection and transmission of qP-qS plane waves at a plane boundary between viscoelastic transversely isotropic media. <i>Geophysical Journal International</i> , 1997 , 129, 669-680	2.6	48
272	Acoustic and electromagnetic properties of soils saturated with salt water and NAPL. <i>Journal of Applied Geophysics</i> , 2003 , 52, 177-191	1.7	48
271	Seismic and ultrasonic velocities in permafrost. <i>Geophysical Prospecting</i> , 1998 , 46, 441-454	1.9	47
270	3-D wave simulation in anelastic media using the Kelvin-Voigt constitutive equation. <i>Journal of Computational Physics</i> , 2004 , 196, 282-297	4.1	47
269	Numerical simulation of the Biot slow wave in water-saturated Nivelsteiner Sandstone. <i>Geophysics</i> , 2001 , 66, 890-896	3.1	45
268	Wave Simulation in Frozen Porous Media. <i>Journal of Computational Physics</i> , 2001 , 170, 676-695	4.1	44
267	Wave propagation in partially saturated porous media: simulation of a second slow wave. <i>Wave Motion</i> , 2004 , 39, 227-240	1.8	43

266	Staggered mesh for the anisotropic and viscoelastic wave equation. <i>Geophysics</i> , 1999 , 64, 1863-1866	3.1	43
265	Attenuation tomography: An application to gas-hydrate and free-gas detection. <i>Geophysical Prospecting</i> , 2007 , 55, 655-669	1.9	42
264	3-D ground-penetrating radar simulation and plane-wave theory in anisotropic media. <i>Geophysics</i> , 2000 , 65, 1527-1541	3.1	42
263	Energy balance and fundamental relations in anisotropic-viscoelastic media. <i>Wave Motion</i> , 1993 , 18, 11-208		41
262	Angular and Frequency-Dependent Wave Velocity and Attenuation in Fractured Porous Media. <i>Pure and Applied Geophysics</i> , 2013 , 170, 1673-1683	2.2	40
261	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	40
260	An accurate and efficient scheme for wave propagation in linear viscoelastic media. <i>Geophysics</i> , 1990 , 55, 1366-1379	3.1	39
259	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	3.5	38
258	The physics and simulation of wave propagation at the ocean bottom. <i>Geophysics</i> , 2004 , 69, 825-839	3.1	38
257	Effects of attenuation and anisotropy on reflection amplitude versus offset. <i>Geophysics</i> , 1998 , 63, 1652-1658	3.1	38
256	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	37
255	AVO effects of a hydrocarbon source-rock layer. <i>Geophysics</i> , 2001 , 66, 419-427	3.1	37
254	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	2.2	36
253	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	3.4	34
252	Physics and Simulation of Wave Propagation in Linear Thermoporoelastic Media. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 8147-8166	3.6	33
251	A viscoelastic representation of wave attenuation in porous media. <i>Computers and Geosciences</i> , 2010 , 36, 44-53	4.5	33
250	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		33
249	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	3.6	32

248	Modeling anelastic singular surface waves in the earth. <i>Geophysics</i> , 1992 , 57, 781-792	3.1	32
247	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	2.2	31
246	Domain decomposition for wave propagation problems. <i>Journal of Scientific Computing</i> , 1991 , 6, 453-472.	3	31
245	Anisotropic poroelasticity and wave-induced fluid flow: harmonic finite-element simulations. <i>Geophysical Journal International</i> , 2011 , 186, 1245-1254	2.6	30
244	P-wave seismic attenuation by slow-wave diffusion: Numerical experiments in partially saturated rocks. <i>Geophysics</i> , 2007 , 72, N11-N21	3.1	30
243	Pore pressure estimation in reservoir rocks from seismic reflection data. <i>Geophysics</i> , 2003 , 68, 1569-1579.	3.1	30
242	Wave simulation in partially frozen porous media with fractal freezing conditions. <i>Journal of Applied Physics</i> , 2003 , 94, 7839	2.5	29
241	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	6	29
240	Simulation of wave propagation in linear thermoelastic media. <i>Geophysics</i> , 2019 , 84, T1-T11	3.1	29
239	Multiscale rock-physics templates for gas detection in carbonate reservoirs. <i>Journal of Applied Geophysics</i> , 2013 , 93, 77-82	1.7	28
238	Estimation of gas-hydrate concentration and free-gas saturation from log and seismic data. <i>The Leading Edge</i> , 2001 , 20, 200-203	1	28
237	Estimation of porosity and fluid saturation in carbonates from rock-physics templates based on seismic Q. <i>Geophysics</i> , 2019 , 84, M25-M36	3.1	27
236	Cross-hole electromagnetic and seismic modeling for CO2 detection and monitoring in a saline aquifer. <i>Journal of Petroleum Science and Engineering</i> , 2012 , 100, 162-172	4.4	27
235	Elastic surface waves in crystals. Part 1: review of the physics. <i>Ultrasonics</i> , 2011 , 51, 653-60	3.5	27
234	On the evaluation of plane-wave reflection coefficients in anelastic media. <i>Geophysical Journal International</i> , 2008 , 175, 94-102	2.6	27
233	Theory of borehole stability when drilling through salt formations. <i>Geophysics</i> , 2006 , 71, F31-F47	3.1	27
232	Ultrasonic wave attenuation dependence on saturation in tight oil siltstones. <i>Journal of Petroleum Science and Engineering</i> , 2019 , 179, 1114-1122	4.4	26
231	Seismic attenuation due to heterogeneities of rock fabric and fluid distribution. <i>Geophysical Journal International</i> , 2015 , 202, 1843-1847	2.6	26

230	Forbidden directions for inhomogeneous pure shear waves in dissipative anisotropic media. <i>Geophysics</i> , 1995 , 60, 522-530	3.1	26
229	Ground radar simulation for archaeological applications ¹ . <i>Geophysical Prospecting</i> , 1996 , 44, 871-888	1.9	26
228	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	1.7	25
227	A spectral numerical method for electromagnetic diffusion. <i>Geophysics</i> , 2006 , 71, 11-19	3.1	25
226	Gas generation and overpressure: Effects on seismic attributes. <i>Geophysics</i> , 2000 , 65, 1769-1779	3.1	25
225	Seismic Rheological Model and Reflection Coefficients of the Brittle-Ductile Transition. <i>Pure and Applied Geophysics</i> , 2013 , 170, 2021-2035	2.2	24
224	Theory and simulation of time-fractional fluid diffusion in porous media. <i>Journal of Physics A: Mathematical and Theoretical</i> , 2013 , 46, 345501	2	24
223	Simulation of surface waves in porous media. <i>Geophysical Journal International</i> , 2010 , 183, 820-832	2.6	24
222	An electromagnetic modelling tool for the detection of hydrocarbons in the subsoil. <i>Geophysical Prospecting</i> , 2000 , 48, 231-256	1.9	24
221	The seismic response to overpressure: a modelling study based on laboratory, well and seismic data. <i>Geophysical Prospecting</i> , 2001 , 49, 523-539	1.9	23
220	Wavefronts in dissipative anisotropic media. <i>Geophysics</i> , 1994 , 59, 644-657	3.1	23
219	Numerical simulation of ultrasonic waves in reservoir rocks with patchy saturation and fractal petrophysical properties. <i>Computational Geosciences</i> , 2005 , 9, 1-27	2.7	22
218	Elastodynamics of a non-ideal interface: Application to crack and fracture scattering. <i>Journal of Geophysical Research</i> , 1996 , 101, 28177-28188		22
217	High-order spectral element method for elastic wave modeling 1992 ,		22
216	Rayleigh waves in isotropic viscoelastic media. <i>Geophysical Journal International</i> , 1992 , 108, 453-464	2.6	22
215	A constitutive equation and generalized Gassmann modulus for multimineral porous media. <i>Geophysics</i> , 2005 , 70, N17-N26	3.1	21
214	Poisson's ratio at high pore pressure. <i>Geophysical Prospecting</i> , 2002 , 50, 97-106	1.9	21
213	Amplitude variations with offset of pressure-seal reflections. <i>Geophysics</i> , 2001 , 66, 283-293	3.1	21

212	The velocity of energy through a dissipative medium. <i>Geophysics</i> , 2010 , 75, T37-T47	3.1	20
211	Q-anisotropy in finely-layered media. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	20
210	A poroelastic model for wave propagation in partially frozen orange juice. <i>Journal of Food Engineering</i> , 2007 , 80, 11-17	6	20
209	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	2.4	20
208	Attenuation and quality factor surfaces in anisotropic-viscoelastic media. <i>Mechanics of Materials</i> , 1995 , 19, 311-327	3.3	20
207	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	2.2	19
206	Hysteresis cycles and fatigue criteria using anelastic models based on fractional derivatives. <i>Rheologica Acta</i> , 2011 , 50, 107-115	2.3	19
205	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	6	19
204	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	7.6	19
203	Theory of wave propagation in partially saturated double-porosity rocks: a triple-layer patchy model. <i>Geophysical Journal International</i> , 2016 , 205, 22-37	2.6	18
202	Seismic modeling to monitor CO2 geological storage: The Atzbach-Schwanenstadt gas field. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		18
201	Acoustic and mechanical response of reservoir rocks under variable saturation and effective pressure. <i>Journal of the Acoustical Society of America</i> , 2003 , 113, 1801-11	2.2	18
200	Sensitivity of seismic properties to temperature variations in a geothermal reservoir. <i>Geothermics</i> , 2018 , 76, 149-163	4.3	17
199	A memory model of sedimentation in water reservoirs. <i>Journal of Hydrology</i> , 2013 , 476, 426-432	6	17
198	On the Kramers-Kronig relations. <i>Rheologica Acta</i> , 2019 , 58, 21-28	2.3	17
197	On the Green function of the LordBulman thermoelasticity equations. <i>Geophysical Journal International</i> , 2020 , 220, 393-403	2.6	17
196	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	4.4	16
195	Numerical test of the Schoenberg-Muir theory. <i>Geophysics</i> , 2012 , 77, C27-C35	3.1	16

194	Wave reflection at an anelastic transversely isotropic ocean bottom. <i>Geophysics</i> , 2007 , 72, SM139-SM146	3.1	16
193	A new insight into the reciprocity principle. <i>Geophysics</i> , 2000 , 65, 1604-1612	3.1	16
192	Rock-physics templates based on seismic Q. <i>Geophysics</i> , 2019 , 84, MR13-MR23	3.1	16
191	Reflection and Transmission of Plane Elastic Waves at an Interface Between Two Double-Porosity Media: Effect of Local Fluid Flow. <i>Surveys in Geophysics</i> , 2020 , 41, 283-322	7.6	16
190	Modeling Extreme-Event Precursors with the Fractional Diffusion Equation. <i>Fractional Calculus and Applied Analysis</i> , 2015 , 18, 208-222	2.7	15
189	Comparison of P-wave attenuation models of wave-induced flow. <i>Geophysical Prospecting</i> , 2015 , 63, 378-390	3.9	15
188	GPR modeling study in a contaminated area of Krzywa Air Base (Poland). <i>Geophysics</i> , 2000 , 65, 521-525	3.1	15
187	Wavefronts in dissipative anisotropic media: Comparison of the plane-wave theory with numerical modeling. <i>Geophysics</i> , 1996 , 61, 857-861	3.1	15
186	Estimation of microfracture porosity in deep carbonate reservoirs based on 3D rock-physics templates. <i>Interpretation</i> , 2020 , 8, SP43-SP52	1.4	15
185	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	4.1	14
184	A physical solution for plane SH waves in anelastic media. <i>Geophysical Journal International</i> , 2017 , 209, 661-671	2.6	14
183	Fracture-Induced Anisotropic Attenuation. <i>Rock Mechanics and Rock Engineering</i> , 2012 , 45, 929	5.7	14
182	Reflection and transmission coefficients of a fracture in transversely isotropic media. <i>Studia Geophysica Et Geodaetica</i> , 2012 , 56, 307-322	0.7	14
181	Optimal seismic-data acquisition in very shallow waters: Surveys in the Venice lagoon. <i>Geophysics</i> , 2008 , 73, Q59-Q63	3.1	14
180	Fresnel reflection coefficients for GPR-AVA analysis and detection of seawater and NAPL contaminants. <i>Near Surface Geophysics</i> , 2006 , 4, 253-263	1.6	14
179	GPR modelling by the Fourier method: improvement of the algorithm. <i>Geophysical Prospecting</i> , 1999 , 47, 1015-1029	1.9	14
178	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	1.7	13
177	Theory and numerical simulation of fluid-pressure diffusion in anisotropic porous media. <i>Geophysics</i> , 2009 , 74, N31-N39	3.1	13

176	Nonlinear and dispersive acoustic wave propagation. <i>Geophysics</i> , 2004 , 69, 840-848	3.1	13
175	Radiation patterns for 2-D GPR forward modeling. <i>Geophysics</i> , 1998 , 63, 424-430	3.1	13
174	Hybrid multiplicative time-reversal imaging reveals the evolution of microseismic events: Theory and field-data tests. <i>Geophysics</i> , 2019 , 84, KS71-KS83	3.1	13
173	Canonical analytical solutions of wave-induced thermoelastic attenuation. <i>Geophysical Journal International</i> , 2020 , 221, 835-842	2.6	13
172	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	4.4	12
171	Reflection and transmission coefficients of a single layer in poroelastic media. <i>Journal of the Acoustical Society of America</i> , 2014 , 135, 3151-62	2.2	12
170	Non-equilibrium compaction and abnormal pore-fluid pressures: effects on rock properties1. <i>Geophysical Prospecting</i> , 2000 , 48, 521-537	1.9	12
169	Sound velocity of drilling mud saturated with reservoir gas. <i>Geophysics</i> , 2000 , 65, 646-651	3.1	12
168	Reverse time imaging of ground-penetrating radar and SH-seismic data including the effects of wave loss. <i>Geophysics</i> , 2016 , 81, H21-H32	3.1	12
167	Modeling wave propagation in cracked porous media with penny-shaped inclusions. <i>Geophysics</i> , 2019 , 84, WA141-WA151	3.1	11
166	Rock-physics analysis of clay-rich source rocks on the Norwegian Shelf. <i>The Leading Edge</i> , 2015 , 34, 1340-1348		11
165	Green's function of the Lord-Shulman thermo-poroelasticity theory. <i>Geophysical Journal International</i> , 2020 , 221, 1765-1776	2.6	11
164	Poro-acoustoelasticity of fluid-saturated rocks. <i>Geophysical Prospecting</i> , 2013 , 61, 599-612	1.9	11
163	Simulation of seismic waves at the earth's crust (brittle-ductile transition) based on the Burgers model. <i>Solid Earth</i> , 2014 , 5, 1001-1010	3.3	11
162	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	2.6	11
161	Evaluation of the stiffness tensor of a fractured medium with harmonic experiments. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2012 , 247-248, 130-145	5.7	11
160	On energy definition in electromagnetism: An analogy with viscoelasticity. <i>Journal of the Acoustical Society of America</i> , 1999 , 105, 626-632	2.2	11
159	Viscoelastic-stiffness tensor of anisotropic media from oscillatory numerical experiments. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2011 , 200, 896-904	5.7	10

158	Two-dimensional simulation of Rayleigh waves with staggered sine/cosine transforms and variable grid spacing. <i>Geophysics</i> , 2010 , 75, T133-T140	3.1	10
157	Reflection tomography versus stacking velocity analysis. <i>Journal of Applied Geophysics</i> , 1996 , 35, 1-13	1.7	10
156	Dispersion and attenuation of compressional waves in tight oil reservoirs: Experiments and simulations. <i>Applied Geophysics</i> , 2019 , 16, 33-45	0.5	9
155	3D seismic modeling in geothermal reservoirs with a distribution of steam patch sizes, permeabilities and saturations, including ductility of the rock frame. <i>Physics of the Earth and Planetary Interiors</i> , 2018 , 279, 67-78	2.3	9
154	The Burgers/squirt-flow seismic model of the crust and mantle. <i>Physics of the Earth and Planetary Interiors</i> , 2018 , 274, 14-22	2.3	9
153	Rock physics modeling of heterogeneous carbonate reservoirs: porosity estimation and hydrocarbon detection. <i>Applied Geophysics</i> , 2014 , 11, 9-22	0.5	9
152	SIMULATION OF ELECTROMAGNETIC DIFFUSION IN ANISOTROPIC MEDIA. <i>Progress in Electromagnetics Research B</i> , 2010 , 26, 425-450	0.7	9
151	Seismic low-frequency anomalies in multiple reflections from thinly layered poroelastic reservoirs 2007 ,		9
150	Vector attenuation: elliptical polarization, raypaths and the Rayleigh-window effect. <i>Geophysical Prospecting</i> , 2006 , 54, 399-407	1.9	9
149	On the Acoustic-Electromagnetic Analogy for the Reflection-Refraction Problem. <i>Studia Geophysica Et Geodaetica</i> , 2002 , 46, 321-346	0.7	9
148	A telegrapher equation for electric - telemetering in drill strings. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2002 , 40, 1047-1053	8.1	9
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