

# Jose M Carcione

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	A Hierarchical Prestack Seismic Inversion Scheme for VTI media based on the Exact Reflection Coefficient. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2022</b> , 1-1	8.1	3
318	Seismic Rock Physics of Gas-Hydrate Bearing Sediments <b>2022</b> , 55-63		0
317	Microcrack Porosity Estimation Based on Rock Physics Templates: A Case Study in Sichuan Basin, China. <i>Energies</i> , <b>2021</b> , 14, 7225	3.1	0
316	A New Anelasticity Model for Wave Propagation in Partially Saturated Rocks. <i>Energies</i> , <b>2021</b> , 14, 7619	3.1	
315	Data-Driven Design of Wave-Propagation Models for Shale-Oil Reservoirs Based on Machine Learning. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2021</b> , 126, e2021JB022665	3.6	3
314	Two-Phase Flow Effects on Seismic Wave Anelasticity in Anisotropic Poroelastic Media. <i>Energies</i> , <b>2021</b> , 14, 6528	3.1	
313	Wave Propagation in Infinituple-Porosity Media. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2021</b> , 126, e2020JB021266	3.6	6
312	P- and S-wave simulation using a Cole-Cole model to incorporate thermoelastic attenuation and dispersion. <i>Journal of the Acoustical Society of America</i> , <b>2021</b> , 149, 1946	2.2	4
311	Simulation of thermoelastic waves based on the Lord-Shulman theory. <i>Geophysics</i> , <b>2021</b> , 86, T155-T164	3.1	6
310	Wave Properties of Gas-Hydrate Bearing Sediments Based on Poroelasticity. <i>Frontiers in Earth Science</i> , <b>2021</b> , 9,	3.5	1
309	Temperature, differential pressure, and porosity inversion for ultradeep carbonate reservoirs based on 3D rock-physics templates. <i>Geophysics</i> , <b>2021</b> , 86, M77-M89	3.1	6
308	Canonical solutions for wave anelasticity in rocks composed of two frames. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , <b>2021</b> , 7, 1	3.8	
307	Fluid Discrimination in Ultra-Deep Reservoirs Based on a Double Double-Porosity Theory. <i>Frontiers in Earth Science</i> , <b>2021</b> , 9,	3.5	2
306	On the Normal-Incidence Reflection Coefficient in Porous Media. <i>Surveys in Geophysics</i> , <b>2021</b> , 42, 923-942	2.6	3
305	Characterization of Gas Saturation in Tight-Sandstone Reservoirs with Rock-Physics Templates Based on Seismic Q. <i>Journal of Energy Engineering - ASCE</i> , <b>2021</b> , 147,	1.7	3
304	Estimation of the Pore Microstructure of Tight-Gas Sandstone Reservoirs with Seismic Data. <i>Frontiers in Earth Science</i> , <b>2021</b> , 9,	3.5	2
303	Elastic-Electrical Rock-Physics Template for the Characterization of Tight-Oil Reservoir Rocks. <i>Lithosphere</i> , <b>2021</b> , 2021,	2.7	3

302	Existence and uniqueness of solutions of thermo-poroelasticity. <i>Journal of Mathematical Analysis and Applications</i> , <b>2021</b> , 499, 124907	1.1	1
301	. <i>IEEE Geoscience and Remote Sensing Letters</i> , <b>2021</b> , 1-5	4.1	1
300	A Born-WKBJ Pre-Stack Seismic Inversion Based on a 3-D Structural-Geology Model Building. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-11	8.1	2
299	Wave Simulation in Partially Saturated Porothermoelastic Media. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , <b>2021</b> , 1-14	8.1	1
298	An SEIR Epidemic Model of Fractional Order to Analyze the Evolution of the Covid-19 Epidemic in Argentina. <i>Infosys Science Foundation Series</i> , <b>2021</b> , 539-557	0.1	
297	Generalized Thermo-poroelasticity Equations and Wave Simulation. <i>Surveys in Geophysics</i> , <b>2021</b> , 42, 133-157	1.57	6
296	On the seismic response of a periodic sequence of three thin layers saturated by two-phase fluids. <i>Geophysics</i> , <b>2021</b> , 86, T401-T410	3.1	1
295	Poroacoustoelasticity for rocks with a dual-pore structure. <i>Geophysics</i> , <b>2021</b> , 86, MR17-MR25	3.1	1
294	Waves at a fluid-solid interface: Explicit versus implicit formulation of boundary conditions using a discontinuous Galerkin method. <i>Journal of the Acoustical Society of America</i> , <b>2020</b> , 147, 3136	2.2	3
293	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> , <b>2020</b> , 194, 107416	4.4	16
292	Squirt-flow seismic dispersion models: a comparison. <i>Geophysical Journal International</i> , <b>2020</b> , 222, 2068-2082	2.02	8
291	A Simulation of a COVID-19 Epidemic Based on a Deterministic SEIR Model. <i>Frontiers in Public Health</i> , <b>2020</b> , 8, 230	6	117
290	Rock Anelasticity, Pore Geometry and the Biot-Gardner Effect. <i>Rock Mechanics and Rock Engineering</i> , <b>2020</b> , 53, 3969-3981	5.7	6
289	Differential poroelasticity model for wave dissipation in self-similar rocks. <i>International Journal of Rock Mechanics and Minings Sciences</i> , <b>2020</b> , 128, 104281	6	7
288	Green's function of the Lord-Shulman thermo-poroelasticity theory. <i>Geophysical Journal International</i> , <b>2020</b> , 221, 1765-1776	2.6	11
287	Thermoelasticity and P-wave simulation based on the Cole-Cole model. <i>Journal of Thermal Stresses</i> , <b>2020</b> , 43, 512-527	2.2	7
286	Seismic Q of inhomogeneous plane waves in porous media. <i>Geophysics</i> , <b>2020</b> , 85, T209-T224	3.1	6
285	A rock-physics model to determine the pore microstructure of cracked porous rocks. <i>Geophysical Journal International</i> , <b>2020</b> , 223, 622-631	2.6	1

284	A squirt-flow theory to model wave anelasticity in rocks containing compliant microfractures. <i>Physics of the Earth and Planetary Interiors</i> , <b>2020</b> , 301, 106450	2.3	2
283	Seismic pre-stack AVA inversion scheme based on lithology constraints. <i>Journal of Geophysics and Engineering</i> , <b>2020</b> , 17, 411-428	1.3	1
282	Effects of Fluid Rheology and Pore Connectivity on Rock Permeability Based on a Network Model. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, no	3.6	6
281	Bounds and averages of seismic quality factor Q. <i>Studia Geophysica Et Geodaetica</i> , <b>2020</b> , 64, 100-113	0.7	2
280	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. <i>Geophysics</i> , <b>2020</b> , 85, T237-T256	3.1	2
279	Quality Factor of Inhomogeneous Plane Waves. <i>Acoustical Physics</i> , <b>2020</b> , 66, 598-603	1.1	2
278	Seismic attenuation in partially molten rocks. <i>Physics of the Earth and Planetary Interiors</i> , <b>2020</b> , 309, 106568	1.9	7
277	Reflection of inhomogeneous plane waves at the surface of a thermo-poroelastic medium. <i>Geophysical Journal International</i> , <b>2020</b> , 224, 1621-1639	2.6	5
276	Estimation of microfracture porosity in deep carbonate reservoirs based on 3D rock-physics templates. <i>Interpretation</i> , <b>2020</b> , 8, SP43-SP52	1.4	15
275	Joint PP and PS Pre-stack Seismic Inversion for Stratified Models Based on the Propagator Matrix Forward Engine. <i>Surveys in Geophysics</i> , <b>2020</b> , 41, 987-1028	7.6	19
274	Porosity and permeability of the overburden from wireline logs: a case study from offshore Malaysia. <i>Geomechanics and Geophysics for Geo-Energy and Geo-Resources</i> , <b>2020</b> , 6, 1	3.8	1
273	Finite-element numerical simulations of seismic attenuation in finely layered rocks. <i>Journal of the Acoustical Society of America</i> , <b>2020</b> , 148, 1978	2.2	1
272	Effect of pressure and fluid on pore geometry and anelasticity of dolomites. <i>Rheologica Acta</i> , <b>2020</b> , 59, 707-716	2.3	0
271	Thermoelastic Dispersion and Attenuation of P and SV Wave Scattering by Aligned Fluid-Saturated Cracks of Finite Thickness in an Isothermal Elastic Medium. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2020</b> , 125, e2020JB019942	3.6	3
270	On the Green function of the Lord-Bulman thermoelasticity equations. <i>Geophysical Journal International</i> , <b>2020</b> , 220, 393-403	2.6	17
269	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> , <b>2020</b> , 41, 283-322	7.6	16
268	Canonical analytical solutions of wave-induced thermoelastic attenuation. <i>Geophysical Journal International</i> , <b>2020</b> , 221, 835-842	2.6	13
267	Nearly perfectly matched layer absorber for viscoelastic wave equations. <i>Geophysics</i> , <b>2019</b> , 84, T335-T345	3.1	2

266	Seismic properties in conductive and convective hot and super-hot geothermal systems. <i>Geothermics</i> , <b>2019</b> , 82, 16-33	4.3	4
265	Effect of capillarity and relative permeability on Q anisotropy of hydrocarbon source rocks. <i>Geophysical Journal International</i> , <b>2019</b> , 218, 1199-1209	2.6	5
264	Dispersion and attenuation of compressional waves in tight oil reservoirs: Experiments and simulations. <i>Applied Geophysics</i> , <b>2019</b> , 16, 33-45	0.5	9
263	Ultrasonic wave attenuation dependence on saturation in tight oil siltstones. <i>Journal of Petroleum Science and Engineering</i> , <b>2019</b> , 179, 1114-1122	4.4	26
262	Modeling wave propagation in cracked porous media with penny-shaped inclusions. <i>Geophysics</i> , <b>2019</b> , 84, WA141-WA151	3.1	11
261	Modeling the wave propagation in viscoacoustic media: An efficient spectral approach in time and space domain. <i>Computers and Geosciences</i> , <b>2019</b> , 126, 31-40	4.5	7
260	A nodal discontinuous Galerkin finite element method for the poroelastic wave equation. <i>Computational Geosciences</i> , <b>2019</b> , 23, 595-615	2.7	7
259	Estimation of porosity and fluid saturation in carbonates from rock-physics templates based on seismic Q. <i>Geophysics</i> , <b>2019</b> , 84, M25-M36	3.1	27
258	Microseismicity caused by injection of water in a gas-saturated reservoir. <i>Geophysics</i> , <b>2019</b> , 84, KS183-KS189	3.8	1
257	Physics and Simulation of Wave Propagation in Linear Thermoporoelastic Media. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 8147-8166	3.6	33
256	Geophysical signature of a World War I tunnel-like anomaly in the Forni Glacier (Punta Linke, Italian Alps). <i>Journal of Glaciology</i> , <b>2019</b> , 65, 798-812	3.4	1
255	Effect of Clay and Mineralogy on Permeability. <i>Pure and Applied Geophysics</i> , <b>2019</b> , 176, 2581-2594	2.2	6
254	Retrieving shallow shear-wave velocity profiles from 2D seismic-reflection data with severely aliased surface waves. <i>Journal of Applied Geophysics</i> , <b>2019</b> , 161, 15-25	1.7	6
253	Estimation of pore microstructure by using the static and dynamic moduli. <i>International Journal of Rock Mechanics and Minings Sciences</i> , <b>2019</b> , 113, 24-30	6	29
252	On the Kramers-Kronig relations. <i>Rheologica Acta</i> , <b>2019</b> , 58, 21-28	2.3	17
251	Hybrid multiplicative time-reversal imaging reveals the evolution of microseismic events: Theory and field-data tests. <i>Geophysics</i> , <b>2019</b> , 84, KS71-KS83	3.1	13
250	Wave simulation in double-porosity media based on the Biot-Rayleigh theory. <i>Geophysics</i> , <b>2019</b> , 84, WA131-WA231	3.1	1
249	Simultaneous inversion for velocity model and microseismic sources in layered anisotropic media. <i>Journal of Petroleum Science and Engineering</i> , <b>2019</b> , 173, 1453-1463	4.4	1

248	Simulation of wave propagation in linear thermoelastic media. <i>Geophysics</i> , <b>2019</b> , 84, T1-T11	3.1	29
247	Rock-physics templates based on seismic Q. <i>Geophysics</i> , <b>2019</b> , 84, MR13-MR23	3.1	16
246	Effects of ellipsoidal heterogeneities on wave propagation in partially saturated double-porosity rocks. <i>Geophysics</i> , <b>2018</b> , 83, WC71-WC81	3.1	6
245	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> , <b>2018</b> , 279, 67-78	2.3	9
244	Seismic attenuation, normal moveout stretch, and low-frequency shadows underlying bottom simulating reflector events. <i>Geophysical Prospecting</i> , <b>2018</b> , 66, 857-871	1.9	5
243	Broad-band viscoacoustic Q-factor imaging by seismic tomography and instantaneous frequency. <i>Geophysical Journal International</i> , <b>2018</b> , 214, 672-686	2.6	3
242	The Burgers/squirt-flow seismic model of the crust and mantle. <i>Physics of the Earth and Planetary Interiors</i> , <b>2018</b> , 274, 14-22	2.3	9
241	Backus and Wyllie Averages for Seismic Attenuation. <i>Pure and Applied Geophysics</i> , <b>2018</b> , 175, 165-170	2.2	4
240	Modeling fluid injection induced microseismicity in shales. <i>Journal of Geophysics and Engineering</i> , <b>2018</b> , 15, 234-248	1.3	8
239	Waves at fluid-solid interfaces: explicit versus implicit formulation of the boundary condition. <i>Geophysical Journal International</i> , <b>2018</b> , 215, 37-48	2.6	6
238	Sensitivity of seismic properties to temperature variations in a geothermal reservoir. <i>Geothermics</i> , <b>2018</b> , 76, 149-163	4.3	17
237	On the relation between sources and initial conditions for the wave and diffusion equations. <i>Computers and Mathematics With Applications</i> , <b>2017</b> , 73, 906-913	2.7	5
236	Synthetic waveforms of axial motion in a borehole with drill string. <i>Journal of the Acoustical Society of America</i> , <b>2017</b> , 141, 828	2.2	2
235	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> , <b>2017</b> , 39, B244-B271	2.6	0
234	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> , <b>2017</b> , 63, 229-248	3.4	34
233	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> , <b>2017</b> , 122, 1949	3.6	70
232	A model for CO <sub>2</sub> storage and seismic monitoring combining multiphase fluid flow and wave propagation simulators. The Sleipner-field case. <i>Computational Geosciences</i> , <b>2017</b> , 21, 223-239	2.7	4
231	The Gassmann-Burgers Model to Simulate Seismic Waves at the Earth Crust And Mantle. <i>Pure and Applied Geophysics</i> , <b>2017</b> , 174, 849-863	2.2	7

230	Numerical modelling of GPR electromagnetic fields for locating burial sites. <i>E3S Web of Conferences</i> , <b>2017</b> , 24, 01002	0.5	1
229	A physical solution for plane SH waves in anelastic media. <i>Geophysical Journal International</i> , <b>2017</b> , 209, 661-671	2.6	14
228	Numerical simulation of wave-induced fluid flow seismic attenuation based on the Cole-Cole model. <i>Journal of the Acoustical Society of America</i> , <b>2017</b> , 142, 134	2.2	19
227	Effect of soil and bedrock anelasticity on the S-wave amplification function. <i>Geophysical Journal International</i> , <b>2017</b> , 208, 424-431	2.6	8
226	Seismic wave propagation in geothermal hot rocks: a review of simulation analysis and results based on Burgers models <b>2017</b> ,		2
225	Low-frequency dispersion and attenuation in anisotropic partially saturated rocks. <i>Geophysical Journal International</i> , <b>2017</b> , 209, 1572-1584	2.6	5
224	Validation of the boundary conditions to model the seismic response of fractures. <i>Geophysical Prospecting</i> , <b>2016</b> , 64, 1149-1165	1.9	5
223	Geophone-ground coupling with flat bases. <i>Geophysical Prospecting</i> , <b>2016</b> , 64, 255-267	1.9	1
222	Theory of wave propagation in partially saturated double-porosity rocks: a triple-layer patchy model. <i>Geophysical Journal International</i> , <b>2016</b> , 205, 22-37	2.6	18
221	Compressional wave dispersion due to rock matrix stiffening by clay squirt flow. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 6186-6195	4.9	62
220	Reverse time imaging of ground-penetrating radar and SH-seismic data including the effects of wave loss. <i>Geophysics</i> , <b>2016</b> , 81, H21-H32	3.1	12
219	Imaging septaria geobody in the Boom Clay using a Q-compensated reverse-time migration. <i>Geologie En Mijnbouw/Netherlands Journal of Geosciences</i> , <b>2016</b> , 95, 283-291	1.1	2
218	Numerical investigation of the seismic detectability of carbonate thin beds in the Boom Clay formation. <i>Geophysical Journal International</i> , <b>2016</b> , 206, 63-84	2.6	0
217	Seismic spectrograms of an anelastic layer with different source-receivers configurations. <i>Arabian Journal of Geosciences</i> , <b>2016</b> , 9, 1	1.8	3
216	On Fermat's principle and Snell's law in lossy anisotropic media. <i>Geophysics</i> , <b>2016</b> , 81, T107-T116	3.1	2
215	Wave Propagation and Attenuation in Heterogeneous Reservoir Rocks <b>2015</b> , 9-43		
214	Fine Layering and Fractures: Effective Seismic Anisotropy <b>2015</b> , 77-155		
213	Seismic attenuation due to heterogeneities of rock fabric and fluid distribution. <i>Geophysical Journal International</i> , <b>2015</b> , 202, 1843-1847	2.6	26



212	Analysis of capillary pressure effect on the seismic response of a CO <sub>2</sub> -storage site applying multiphase flow and wave propagation simulators. <i>International Journal of Greenhouse Gas Control</i> , <b>2015</b> , 39, 335-348	4.2	2
211	Modeling Extreme-Event Precursors with the Fractional Diffusion Equation. <i>Fractional Calculus and Applied Analysis</i> , <b>2015</b> , 18, 208-222	2.7	15
210	Cross-well seismic and electromagnetic tomography for CO <sub>2</sub> detection and monitoring in a saline aquifer. <i>Journal of Petroleum Science and Engineering</i> , <b>2015</b> , 133, 245-257	4.4	12
209	Attenuation effects on the seismic response of a bottom-simulating reflector. <i>Journal of Natural Gas Science and Engineering</i> , <b>2015</b> , 24, 510-517	4.6	3
208	Rock-physics analysis of clay-rich source rocks on the Norwegian Shelf. <i>The Leading Edge</i> , <b>2015</b> , 34, 1340-1348		11
207	Rock-physics templates for clay-rich source rocks. <i>Geophysics</i> , <b>2015</b> , 80, D481-D500	3.1	55
206	Modeling techniques to study CO <sub>2</sub> -injection induced micro-seismicity. <i>International Journal of Greenhouse Gas Control</i> , <b>2015</b> , 42, 246-257	4.2	7
205	On the Earthquake-Source Numerical Implementation in the Seismic Wave Equation. <i>Journal of Earthquake Engineering</i> , <b>2015</b> , 19, 48-59	1.8	2
204	Finite-element harmonic experiments to model fractured induced anisotropy in poroelastic media. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2015</b> , 283, 1189-1213	5.7	7
203	Modeling hydraulic fracturing and induced seismicity in unconventional reservoirs using multiphase fluid-flow simulations <b>2015</b> ,		1
202	Anisotropy and crystalline fabric of Whillans Ice Stream (West Antarctica) inferred from multicomponent seismic data. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2015</b> , 120, 4237-4262	3.6	32
201	Comparison of P-wave attenuation models of wave-induced flow. <i>Geophysical Prospecting</i> , <b>2015</b> , 63, 378-390		15
200	Rock Physics Template Analysis of Norwegian Shelf Clay-rich Source Rocks <b>2015</b> ,		2
199	Theory and modelling of constant-Q P- and S-waves using fractional spatial derivatives. <i>Geophysical Journal International</i> , <b>2014</b> , 196, 1787-1795	2.6	64
198	On optimal NMO and generalised Dix equations for velocity determination and depth conversion. <i>Journal of Applied Geophysics</i> , <b>2014</b> , 101, 136-141	1.7	4
197	Numerical simulation of two-phase fluid flow. <i>Journal of Petroleum Exploration and Production</i> , <b>2014</b> , 4, 233-243	2.2	2
196	Rock physics modeling of heterogeneous carbonate reservoirs: porosity estimation and hydrocarbon detection. <i>Applied Geophysics</i> , <b>2014</b> , 11, 9-22	0.5	9
195	A rheological equation for anisotropic-elastic media and simulation of field seismograms. <i>Wave Motion</i> , <b>2014</b> , 51, 743-757	1.8	5



194	Seismic velocity and Q anisotropy in fractured poroelastic media. <i>International Journal of Rock Mechanics and Minings Sciences</i> , <b>2014</b> , 70, 212-218	6	4
193	Simulation of seismic waves at the earth's crust (brittle-ductile transition) based on the Burgers model. <i>Solid Earth</i> , <b>2014</b> , 5, 1001-1010	3.3	11
192	Reflection and transmission coefficients of a single layer in poroelastic media. <i>Journal of the Acoustical Society of America</i> , <b>2014</b> , 135, 3151-62	2.2	12
191	A pseudospectral method for the simulation of 3-D ultrasonic and seismic waves in heterogeneous poroelastic borehole environments. <i>Geophysical Journal International</i> , <b>2014</b> , 196, 1134-1151	2.6	11
190	Influence of capillary pressure on CO2 storage and monitoring <b>2014</b> ,		2
189	Mathematical analogies in physics. Thin-layer wave theory. <i>Annals of Geophysics</i> , <b>2014</b> , 57,	1.1	2
188	Poro-acoustoelasticity of fluid-saturated rocks. <i>Geophysical Prospecting</i> , <b>2013</b> , 61, 599-612	1.9	11
187	Angular and Frequency-Dependent Wave Velocity and Attenuation in Fractured Porous Media. <i>Pure and Applied Geophysics</i> , <b>2013</b> , 170, 1673-1683	2.2	40
186	Seismic Rheological Model and Reflection Coefficients of the Brittle-Ductile Transition. <i>Pure and Applied Geophysics</i> , <b>2013</b> , 170, 2021-2035	2.2	24
185	Sensitivity analysis from single-well ERT simulations to image CO2 migrations along wellbores. <i>The Leading Edge</i> , <b>2013</b> , 32, 504-512	1	8
184	Approximating constant-Q seismic propagation in the time domain. <i>Geophysical Prospecting</i> , <b>2013</b> , 61, 931-940	1.9	55
183	Multiscale rock-physics templates for gas detection in carbonate reservoirs. <i>Journal of Applied Geophysics</i> , <b>2013</b> , 93, 77-82	1.7	28
182	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> , <b>2013</b> , 235, 846-864	4.1	14
181	A memory model of sedimentation in water reservoirs. <i>Journal of Hydrology</i> , <b>2013</b> , 476, 426-432	6	17
180	Simulation of flexural waves in drill pipes including the effects of the gravitational field. <i>Wave Motion</i> , <b>2013</b> , 50, 310-325	1.8	5
179	Flexural waves in drill-string tubulars with variable loads. <i>Geophysical Prospecting</i> , <b>2013</b> , 61, 955-972	1.9	4
178	Theory and simulation of time-fractional fluid diffusion in porous media. <i>Journal of Physics A: Mathematical and Theoretical</i> , <b>2013</b> , 46, 345501	2	24
177	A numerical procedure to model and monitor CO2 sequestration in aquifers. <i>Journal of Physics: Conference Series</i> , <b>2013</b> , 410, 012085	0.3	

176	Cross-hole electromagnetic and seismic modeling for CO2 detection and monitoring in a saline aquifer. <i>Journal of Petroleum Science and Engineering</i> , <b>2012</b> , 100, 162-172	4.4	27
175	Fracture-Induced Anisotropic Attenuation. <i>Rock Mechanics and Rock Engineering</i> , <b>2012</b> , 45, 929	5.7	14
174	Numerical experiments of fracture-induced velocity and attenuation anisotropy. <i>Geophysical Journal International</i> , <b>2012</b> ,	2.6	8
173	Evaluation of the stiffness tensor of a fractured medium with harmonic experiments. <i>Computer Methods in Applied Mechanics and Engineering</i> , <b>2012</b> , 247-248, 130-145	5.7	11
172	A pseudo-spectral method for simulating poro-elastic seismic wave propagation in complex borehole environments <b>2012</b> ,		1
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