

Serge A Shapiro

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.

183
papers

5,690
citations

40
h-index

70
g-index

228
ext. papers

6,841
ext. citations

3.2
avg, IF

6.01
L-index

#	Paper	IF	Citations
183	Magnitude and nucleation time of the 2017 Pohang Earthquake point to its predictable artificial triggering. <i>Nature Communications</i> , 2021 , 12, 6397	17.4	1
182	Stress Drop Variations in the Region of the 2014 MW8.1 Iquique Earthquake, Northern Chile. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB020112	3.6	0
181	Geomechanical stress conditions to induce half-moon events during hydraulic fracturing. <i>Geophysics</i> , 2021 , 86, M141-M149	3.1	
180	Stress Drop, Seismogenic Index and Fault Cohesion of Fluid-Induced Earthquakes. <i>Rock Mechanics and Rock Engineering</i> , 2021 , 54, 5483	5.7	1
179	Projecting seismicity induced by complex alterations of underground stresses with applications to geothermal systems. <i>Scientific Reports</i> , 2021 , 11, 23560	4.9	1
178	Arrival-time picking uncertainty: Theoretical estimations and their application to microseismic data. <i>Geophysics</i> , 2020 , 85, U65-U76	3.1	1
177	Fracture mechanics approach to the problem of subsidence induced by resource extraction. <i>Engineering Fracture Mechanics</i> , 2020 , 236, 107173	4.2	1
176	Understanding Vectorial Migration Patterns of Wastewater-Induced Earthquakes in the United States. <i>Bulletin of the Seismological Society of America</i> , 2020 , 110, 2295-2307	2.3	1
175	Visualizing effects of anisotropy on seismic moments and their potency-tensor isotropic equivalent. <i>Geophysics</i> , 2018 , 83, C85-C97	3.1	5
174	Modeling fluid injection induced microseismicity in shales. <i>Journal of Geophysics and Engineering</i> , 2018 , 15, 234-248	1.3	8
173	The surge of earthquakes in Central Oklahoma has features of reservoir-induced seismicity. <i>Scientific Reports</i> , 2018 , 8, 11505	4.9	21
172	Estimating Rupture Directions from Local Earthquake Data Using the IPOC Observatory in Northern Chile. <i>Seismological Research Letters</i> , 2018 , 89, 495-502	3	4
171	Patterns of Rupture Directivity of Subduction Zone Earthquakes in Northern Chile. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 10,785	3.6	3
170	Fluids Along the Plate Interface Influencing the Frictional Regime of the Chilean Subduction Zone, Northern Chile. <i>Geophysical Research Letters</i> , 2018 , 45, 10,378-10,388	4.9	6
169	Seismogenic Index of Underground Fluid Injections and Productions. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 7983-7997	3.6	11
168	Watching Dehydration: Seismic Indication for Transient Fluid Pathways in the Oceanic Mantle of the Subducting Nazca Slab. <i>Geochemistry, Geophysics, Geosystems</i> , 2018 , 19, 3189-3207	3.6	24
167	From Slab Coupling to Slab Pull: Stress Segmentation in the Subducting Nazca Plate. <i>Geophysical Research Letters</i> , 2018 , 45, 5407-5416	4.9	12

166	Stress impact on elastic anisotropy of triclinic porous and fractured rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 2034	3.6	18
165	State of stress and crustal fluid migration related to west-dipping structures in the slab-forearc system in the northern Chilean subduction zone. <i>Geophysical Journal International</i> , 2017 , 208, 1403-1413 ^{2.6}	3.6	3
164	Elastic properties of two VTI shale samples as a function of uniaxial stress: Experimental results and application of the porosity-deformation approach. <i>Geophysics</i> , 2017 , 82, C201-C210	3.1	8
163	Understanding of elastic anisotropy of shale under triaxial loading: Porosity-deformation approach. <i>Geophysics</i> , 2016 , 81, C163-C175	3.1	6
162	Rupture directivity of fluid-induced microseismic events: Observations from an enhanced geothermal system. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 8034-8047	3.6	22
161	Scaling of seismicity induced by nonlinear fluid-rock interaction after an injection stop. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 8154-8174	3.6	11
160	Microseismic reflection imaging of the Central Andean crust. <i>Geophysical Journal International</i> , 2016 , 204, 1396-1404	2.6	7
159	Back front of seismicity induced by non-linear pore pressure diffusion. <i>Geophysical Prospecting</i> , 2016 , 64, 170-191	1.9	7
158	Performance test of the Seismogenic index model for forecasting magnitude distributions of fluid-injection-induced seismicity 2016 ,		1
157	Seismic imaging of the geodynamic activity at the western Eger rift in central Europe. <i>Tectonophysics</i> , 2015 , 647-648, 105-111	3.1	8
156	Permeability dependency on stiff and compliant porosities: a model and some experimental examples. <i>Journal of Geophysics and Engineering</i> , 2015 , 12, 376-385	1.3	12
155	Quantitative analysis of rock stress heterogeneity: Implications for the seismogenesis of fluid-injection-induced seismicity. <i>Geophysics</i> , 2015 , 80, WC73-WC88	3.1	18
154	Microseismic rupture propagation imaging. <i>Geophysics</i> , 2015 , 80, WC107-WC115	3.1	10
153	Microseismic reflection imaging and its application to the Basel geothermal reservoir. <i>Geophysics</i> , 2015 , 80, WC39-WC49	3.1	12
152	A statistical model for seismic hazard assessment of hydraulic-fracturing-induced seismicity. <i>Geophysical Research Letters</i> , 2015 , 42, 10,601-10,606	4.9	20
151	Stress-dependent permeability versus stiff and compliant porosity: theory and experiments 2015 ,		2
150	Fluid-Induced Seismicity 2015 ,		114
149	Receiver based analysis of microseismic recordings: A tool for assessing quality of time picks and event locations 2014 ,		2

148	High-resolution image of the North Chilean subduction zone: seismicity, reflectivity and fluids. <i>Geophysical Journal International</i> , 2014 , 197, 1744-1749	2.6	33
147	Gutenberg-Richter relation originates from Coulomb stress fluctuations caused by elastic rock heterogeneity. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 1220-1234	3.6	16
146	Seismic reflectivity of hydraulic fractures approximated by thin fluid layers. <i>Geophysics</i> , 2013 , 78, T79-T83.1		7
145	Nonlinear diffusion-based interpretation of induced microseismicity: A Barnett Shale hydraulic fracturing case study. <i>Geophysics</i> , 2013 , 78, B211-B226	3.1	27
144	Seismotectonic state of reservoirs inferred from magnitude distributions of fluid-induced seismicity. <i>Journal of Seismology</i> , 2013 , 17, 13-25	1.5	51
143	Probability of inducing given-magnitude earthquakes by perturbing finite volumes of rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 3557-3575	3.6	46
142	The Pressure Dependence of Permeability as a Function of Stiff and Compliant Porosities 2013 ,		3
141	Three-dimensional seismic imaging of tunnels. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2012 , 49, 12-20	6	24
140	Comment on Role of seepage forces on seismicity triggering by Alexander Y. Rozhko. <i>Journal of Geophysical Research</i> , 2012 , 117,		2
139	Microseismic estimates of hydraulic diffusivity in case of non-linear fluid-rock interaction. <i>Geophysical Journal International</i> , 2012 , 188, 1441-1453	2.6	23
138	Multi-source multi-receiver microseismic reflection imaging: case study Basel 2012 ,		1
137	Inter event times of fluid induced earthquakes suggest their Poisson nature. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	59
136	Fracturing of porous rock induced by fluid injection. <i>Tectonophysics</i> , 2011 , 503, 129-145	3.1	89
135	Acoustic emission induced by pore-pressure changes in sandstone samples. <i>Geophysics</i> , 2011 , 76, MA21-MA32	3.1	36
134	Waveform similarity analysis at Cotton Valley, Texas 2011 ,		2
133	Magnitude estimation for microseismicity induced during the KTB 2004/2005 injection experiment. <i>Geophysics</i> , 2011 , 76, WC47-WC53	3.1	5
132	Magnitudes of induced earthquakes and geometric scales of fluid-stimulated rock volumes. <i>Geophysics</i> , 2011 , 76, WC55-WC63	3.1	76
131	Geometric control of earthquake magnitudes by fluid injections in rocks 2011 ,		1

130	Application of an Arrival Time and Cross Correlation Value-based Location Algorithm to the Basel 1 microseismic Data 2011 ,		3
129	Nonlinear diffusion estimates from hydraulic fracturing of shales 2011 ,		2
128	Migration-based location of seismicity recorded with an array installed in the main hole of the San Andreas Fault Observatory at Depth (SAFOD). <i>Geophysical Journal International</i> , 2010 , no-no	2.6	1
127	Stress triggering and stress memory observed from acoustic emission records in a salt mine. <i>Geophysical Journal International</i> , 2010 , 182, 933-948	2.6	22
126	Seismogenic index and magnitude probability of earthquakes induced during reservoir fluid stimulations. <i>The Leading Edge</i> , 2010 , 29, 304-309	1	145
125	Decay rate of fluid-induced seismicity after termination of reservoir stimulations. <i>Geophysics</i> , 2010 , 75, MA53-MA62	3.1	59
124	Predicting permeability and gas production of hydraulically fractured tight sands from microseismic data. <i>Geophysics</i> , 2010 , 75, B1-B10	3.1	31
123	Seismic imaging using microseismic events: Results from the San Andreas Fault System at SAFOD. <i>Journal of Geophysical Research</i> , 2010 , 115,		29
122	Microseismic imaging from a single geophone: KTB 2010 ,		7
121	Interpretation of microseismicity induced by time-dependent injection pressure 2010 ,		7
120	Interpretation of Microseismicity Resulting from Gel and Water Fracturing of Tight Gas Reservoirs. <i>Pure and Applied Geophysics</i> , 2010 , 167, 169-182	2.2	16
119	Temperature dependence of seismic properties in geothermal rocks at reservoir conditions. <i>Geothermics</i> , 2010 , 39, 115-123	4.3	31
118	Stress-dependent anisotropy in transversely isotropic rocks: Comparison between theory and laboratory experiment on shale. <i>Geophysics</i> , 2009 , 74, D7-D12	3.1	23
117	Temperature-dependent poroelastic and viscoelastic effects on microscale-modelling of seismic reflections in heavy oil reservoirs. <i>Geophysical Journal International</i> , 2009 , 176, 822-832	2.6	8
116	Fluid-induced seismicity: Pressure diffusion and hydraulic fracturing. <i>Geophysical Prospecting</i> , 2009 , 57, 301-310	1.9	178
115	Reflection Image Spectroscopy across the Andean subduction zone. <i>Tectonophysics</i> , 2009 , 472, 51-61	3.1	22
114	Scaling of seismicity induced by nonlinear fluid-rock interaction. <i>Journal of Geophysical Research</i> , 2009 , 114,		80
113	Induced seismicity after termination of rock stimulations: Possibilities for reservoir characterization 2009 ,		1

112	Active seismic imaging using microseismic events 2009 ,		2
111	Seismicity Based Reservoir Characterization of Basel Geothermal Site 2009 ,		2
110	Understanding Slow Deformation Before Dynamic Failure 2009 , 229-247		2
109	The reflection seismic survey of project TIPTEQ-the inventory of the Chilean subduction zone at 38.2°S. <i>Geophysical Journal International</i> , 2008 , 172, 565-571	2.6	30
108	Microseismic signatures of hydraulic fracture growth in sediment formations: Observations and modeling. <i>Journal of Geophysical Research</i> , 2008 , 113,		61
107	Attenuation of Seismic Waves Due to Wave-Induced Flow and Scattering in Randomly Heterogeneous Poroelastic Continua. <i>Advances in Geophysics</i> , 2008 , 123-166	4.8	8
106	Temperature-dependent fluid substitution analysis of geothermal rocks at in-situ reservoir conditions 2008 ,		2
105	Chapter 4 Geometrical Optics of Acoustic Media with Anisometric Random Heterogeneities. <i>Advances in Geophysics</i> , 2008 , 95-121	4.8	1
104	Microseismic monitoring of non-linear fluid-rock interaction: Hydraulic fracturing of geothermic and hydrocarbon reservoirs 2008 ,		1
103	Interpretation of Microseismicity Induced by a Gel and a Water Fracturing in Tight Gas Reservoir 2008 ,		2
102	Microseismicity: a tool for reservoir characterization (OTE 2) 2008 ,		15
101	Statistics of fracture strength and fluid-induced microseismicity. <i>Journal of Geophysical Research</i> , 2007 , 112,		40
100	Stress induced elastic anisotropy of the Etnean basalt: Theoretical and laboratory examination. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	20
99	Probability of a given-magnitude earthquake induced by a fluid injection. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	69
98	Microseismicity induced by hydraulic fracturing: Evaluation and interpretation in terms of the Kaiser effect 2007 ,		1
97	Finite-difference modeling of wave propagation on microscale: A snapshot of the work in progress. <i>Geophysics</i> , 2007 , 72, SM293-SM300	3.1	35
96	Fast location of seismicity: A migration-type approach with application to hydraulic-fracturing data. <i>Geophysics</i> , 2007 , 72, S33-S40	3.1	51
95	Violation of the Kaiser effect by hydraulic-fracturing-related microseismicity. <i>Journal of Geophysics and Engineering</i> , 2007 , 4, 378-383	1.3	14

94	Attenuation of P-waves due to interlayer fluid flow in hydrate-bearing sediments. <i>Journal of Geophysics and Engineering</i> , 2007 , 4, 394-403	1.3	7
93	Leaky mode: A mechanism of horizontal seismic attenuation in a gas-hydrate-bearing sediment. <i>Geophysics</i> , 2007 , 72, E159-E163	3.1	5
92	A numerical study on reflection coefficients of fractured media. <i>Geophysics</i> , 2007 , 72, D61-D67	3.1	18
91	Generalization of Gassmann equations for porous media saturated with a solid material. <i>Geophysics</i> , 2007 , 72, A75-A79	3.1	102
90	Rock physics modelling of elastic properties of rocks saturated with heavy oils. <i>ASEG Extended Abstracts</i> , 2007 , 2007, 1-4	0.2	
89	Stress Sensitivity of Seismic and Electric Rock Properties of the Upper Continental Crust at the KTB. <i>Pure and Applied Geophysics</i> , 2006 , 163, 1021-1029	2.2	
88	Fluid induced seismicity guided by a continental fault: Injection experiment of 2004/2005 at the German Deep Drilling Site (KTB). <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	52
87	Hydraulic-fracturing controlled dynamics of microseismic clouds. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	87
86	Seismic Images of Accretive and Erosive Subduction Zones from the Chilean Margin 2006 , 147-169		27
85	Effective elastic properties of fractured rocks: Dynamic vs. static considerations 2006 ,		1
84	Effective Elastic Properties of Fractured Rocks: Dynamic vs. Static Considerations. <i>International Journal of Fracture</i> , 2006 , 139, 569-576	2.3	30
83	Estimation of the rocks statistical parameters from travelttime measurements. <i>Studia Geophysica Et Geodaetica</i> , 2006 , 50, 325-336	0.7	1
82	Considerations of the Biot Velocity Relations: Viscous Finite-difference Calculations in Combination with Flow Simulations 2006 , 279-288		
81	Stress Sensitivity of Seismic and Electric Rock Properties of the Upper Continental Crust at the KTB 2006 , 1021-1029		
80	Evidence for triggering of the Vogtland swarms 2000 by pore pressure diffusion. <i>Journal of Geophysical Research</i> , 2005 , 110,		50
79	Seismic effects of viscous Biot-coupling: Finite difference simulations on micro-scale. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	33
78	Porosity and elastic anisotropy of rocks under tectonic stress and pore-pressure changes. <i>Geophysics</i> , 2005 , 70, N27-N38	3.1	71
77	Fluid-Induced Seismicity: Theory, Modeling, and Applications. <i>Journal of Engineering Mechanics - ASCE</i> , 2005 , 131, 947-952	2.4	10

76 Numerical Considerations of Fluid Effects on Wave Propagation **2005**, 385-394

75 Characterization of hydraulic properties of rocks using probability of fluid-induced microearthquakes. *Geophysics*, **2005**, 70, F27-F33 3.1 76

74 Determination of criticality and diffusivity heterogeneities based on seismic data analysis: Case study of Vogtland, NW-Bohemia. *International Journal of Rock Mechanics and Minings Sciences*, **2005**, 42, 1088-1093 6 1

73 Scattering and diffraction by a single crack: an accuracy analysis of the rotated staggered grid. *Geophysical Journal International*, **2005**, 162, 25-31 2.6 37

72 Estimating statistical parameters of an elastic random medium from traveltime fluctuations of refracted waves. *Waves in Random and Complex Media*, **2005**, 15, 43-60 1.9 5

71 Stress sensitivity of elastic moduli and electrical resistivity in porous rocks. *Journal of Geophysics and Engineering*, **2004**, 1, 1-11 1.3 55

70 Characterization of fluid transport properties of the Hot Dry Rock reservoir Soultz-2000 using induced microseismicity. *Journal of Geophysics and Engineering*, **2004**, 1, 77-83 1.3 25

69 Effective elastic properties of randomly fractured soils: 3D numerical experiments. *Geophysical Prospecting*, **2004**, 52, 183-195 1.9 90

68 Back front of seismicity induced after termination of borehole fluid injection. *Geophysical Research Letters*, **2004**, 31, 4.9 81

67 A statistical model for the seismicity rate of fluid-injection-induced earthquakes. *Geophysical Research Letters*, **2004**, 31, n/a-n/a 4.9 18

66 Numerical considerations of fluid effects on wave propagation: Influence of the tortuosity. *Geophysical Research Letters*, **2004**, 31, n/a-n/a 4.9 30

65 Scattering attenuation in randomly layered structures with finite lateral extent: A hybrid Q model. *Geophysics*, **2004**, 69, 1530-1534 3.1 9

64 Hydraulic diffusivity estimations based on the seismicity rate of fluid-injection-induced earthquakes **2004**, 1

63 Reflection coefficients of fractured rocks: A numerical study **2004**, 3

62 Reservoir characterization using passive seismic monitoring: Physical fundamentals and road ahead **2004**, 1

61 Location of seismicity using Gaussian beam type migration **2004**, 7

60 Numerical Rock Physics: Fluid Effects on Wave Propagation. *ASEG Extended Abstracts*, **2004**, 2004, 1-4 0.2

59 Amplitude corrections for randomly distributed heterogeneities above a target reflector. *Geophysics*, **2003**, 68, 1497-1502 3.1 10

58	Variation in dynamic elastic shear modulus of sandstone upon fluid saturation and substitution. <i>Geophysics</i> , 2003 , 68, 472-481	3.1	60
57	Effects of Parallel Crack Distributions on Effective Elastic Properties - a Numerical Study. <i>International Journal of Fracture</i> , 2003 , 124, L171-L178	2.3	31
56	Triggering of Seismicity by Pore-pressure Perturbations: Permeability-related Signatures of the Phenomenon. <i>Pure and Applied Geophysics</i> , 2003 , 160, 1051-1066	2.2	147
55	Statistical properties of reflection traveltimes in 3-D randomly inhomogeneous and anisotropic media. <i>Geophysical Journal International</i> , 2003 , 154, 841-851	2.6	11
54	Amplitude fluctuations due to diffraction and refraction in anisotropic random media: implications for seismic scattering attenuation estimates. <i>Geophysical Journal International</i> , 2003 , 155, 139-148	2.6	13
53	Along-strike variations of crustal reflectivity related to the Andean subduction process. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	15
52	Seismic imaging of a convergent continental margin and plateau in the central Andes (Andean Continental Research Project 1996 (ANCORP'96)). <i>Journal of Geophysical Research</i> , 2003 , 108,		107
51	Mutual relationship between microseismicity and seismic reflectivity: Case study at the German Continental Deep Drilling Site (KTB). <i>Geophysical Research Letters</i> , 2003 , 30, n/a-n/a	4.9	10
50	Pore-pressure diffusion: A possible triggering mechanism for the earthquake swarms 2000 in Vogtland/NW-Bohemia, central Europe. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	97
49	Microseismic monitoring of borehole fluid injections: Data modeling and inversion for hydraulic properties of rocks. <i>Geophysics</i> , 2003 , 68, 685-689	3.1	87
48	Elastic piezosensitivity of porous and fractured rocks. <i>Geophysics</i> , 2003 , 68, 482-486	3.1	183
47	Effective velocities in fractured media: a numerical study using the rotated staggered finite-difference grid. <i>Geophysical Prospecting</i> , 2002 , 50, 183-194	1.9	107
46	Characterization of fluid transport properties of reservoirs using induced microseismicity. <i>Geophysics</i> , 2002 , 67, 212-220	3.1	209
45	Simulation of the diffraction by single cracks: An accuracy study 2002 ,		4
44	Microseismic monitoring of borehole fluid injections: Data modeling and inversion for hydraulic properties of rocks 2002 ,		2
43	Seismic signatures of fluid transport Introduction. <i>Geophysics</i> , 2002 , 67, 197-198	3.1	4
42	Broad depth range seismic imaging of the subducted Nazca Slab, North Chile. <i>Tectonophysics</i> , 2002 , 350, 273-282	3.1	25
41	Seismogenic plane of the northern Andean Subduction Zone from aftershocks of the Antofagasta (Chile) 1995 earthquake. <i>Geophysical Research Letters</i> , 2002 , 29, 105-1-105-4	4.9	10

40	Simulation of effective elastic properties of 3D fractured medium 2002 ,		1
39	Wave Propagation in Heterogeneous Media. Part 1: Effective Velocities in Fractured Media 2002 , 469-475		
38	Wave Propagation in Heterogeneous Media. Part 2: Attenuation of Seismic Waves Due to Scattering 2002 , 476-482		1
37	Most probable ballistic waves in random media: a weak-fluctuation approximation and numerical results. <i>Waves in Random and Complex Media</i> , 2002 , 12, 223-245		19
36	Microseismic reservoir characterization: Numerical experiments and case studies 2001 ,		4
35	Most probable seismic pulses in single realizations of two- and three-dimensional random media. <i>Geophysical Journal International</i> , 2001 , 144, 83-95	2.6	30
34	Fast repeat-modelling of time-lapse seismograms. <i>Geophysical Prospecting</i> , 2001 , 49, 557-569	1.9	10
33	Seismic scattering attenuation estimates for the German KTB Area derived from well-log statistics. <i>Geophysical Research Letters</i> , 2001 , 28, 3761-3764	4.9	10
32	Reply to comment by F. H. Cornet on 'Large-scale in situ permeability tensor of rocks from induced microseismicity'. <i>Geophysical Journal International</i> , 2000 , 140, 470-473	2.6	20
31	An inversion for fluid transport properties of three-dimensionally heterogeneous rocks using induced microseismicity. <i>Geophysical Journal International</i> , 2000 , 143, 931-936	2.6	18
30	Modeling the propagation of elastic waves using a modified finite-difference grid. <i>Wave Motion</i> , 2000 , 31, 77-92	1.8	414
29	An approach to upscaling for seismic waves in statistically isotropic heterogeneous elastic media. <i>Geophysics</i> , 2000 , 65, 1837-1850	3.1	32
28	A numerical study of effective velocities in fractured media using the rotated staggered finite difference grid 2000 ,		1
27	Summary of Project 11172 2000 , 26-26		
26	Frequency-dependent shear-wave splitting in thinly layered media with intrinsic anisotropy. <i>Geophysics</i> , 1999 , 64, 604-608	3.1	11
25	Seismic signatures of permeability in heterogeneous porous media. <i>Geophysics</i> , 1999 , 64, 99-103	3.1	68
24	Large-scale in situ permeability tensor of rocks from induced microseismicity. <i>Geophysical Journal International</i> , 1999 , 137, 207-213	2.6	124
23	An inversion for the permeability tensor by using seismic emission 1999 ,		3

22	Dynamic poroelasticity of thinly layered structures. <i>International Journal of Solids and Structures</i> , 1998 , 35, 4739-4751	3.1	66
21	Ultrasonic signal analysis to monitor damage development in short fiber-reinforced polymers. <i>Ultrasonics</i> , 1998 , 36, 455-460	3.5	10
20	Intrinsic anisotropy and thin multilayering-two anisotropy effects combined. <i>Geophysical Journal International</i> , 1998 , 132, 363-373	2.6	12
19	Scattering parameters of the lithosphere below the Massif Central, France, from teleseismic wavefield records. <i>Geophysical Journal International</i> , 1998 , 134, 187-198	2.6	24
18	Scattering of a compressional wave in a poroelastic medium by an ellipsoidal inclusion. <i>Geophysical Journal International</i> , 1998 , 133, 91-103	2.6	36
17	Poroelastic Backus averaging for anisotropic layered fluid- and gas-saturated sediments. <i>Geophysics</i> , 1997 , 62, 1867-1878	3.1	63
16	Multiple scattering of seismic waves in multilayered structures. <i>Physics of the Earth and Planetary Interiors</i> , 1997 , 104, 147-159	2.3	9
15	Estimating the crust permeability from fluid-injection-induced seismic emission at the KTB site. <i>Geophysical Journal International</i> , 1997 , 131, F15-F18	2.6	344
14	Dynamic-equivalent medium approach for thinly layered saturated sediments. <i>Geophysical Journal International</i> , 1997 , 128, F1-F4	2.6	49
13	AVO correction for scalar waves in the case of a thinly layered reflector overburden. <i>Geophysics</i> , 1996 , 61, 520-528	3.1	27
12	Elastic waves in finely layered sediments: The equivalent medium and generalized O'Doherty-Anstey formulas. <i>Geophysics</i> , 1996 , 61, 1282-1300	3.1	37
11	The effect of random isotropic inhomogeneities on the phase velocity of seismic waves. <i>Geophysical Journal International</i> , 1996 , 127, 783-794	2.6	42
10	Reflectivity/transmissivity for one-dimensional inhomogeneous random elastic media: dynamic-equivalent-medium approach. <i>Geophysical Journal International</i> , 1996 , 126, 184-196	2.6	15
9	Viscoacoustic wave propagation in 2-D random media and separation of absorption and scattering attenuation. <i>Geophysics</i> , 1995 , 60, 459-467	3.1	25
8	A generalized O'Doherty-Anstey formula for waves in finely layered media. <i>Geophysics</i> , 1994 , 59, 1750-1762	3.2	41
7	The O'Doherty-Anstey formula and localization of seismic waves. <i>Geophysics</i> , 1993 , 58, 736-740	3.1	39
6	Seismic Attenuation By Scattering: Theory and Numerical Results. <i>Geophysical Journal International</i> , 1993 , 114, 373-391	2.6	82
5	The Born approximation in the problem of elastic wave scattering by a spherical inhomogeneity in a fluid-saturated porous medium. <i>Applied Physics Letters</i> , 1992 , 61, 1275-1277	3.4	6

- 4 Fractal properties of fault systems by scattering of body seismic waves. *Tectonophysics*, **1992**, 202, 177-181 5
- 3 Elastic waves scattering and radiation by fractal inhomogeneity of a medium. *Geophysical Journal International*, **1992**, 110, 591-600 2.6 16
- 2 Seismicity and linear diffusion of pore pressure 118-163
- 1 On stress drop, cohesion and seismogenic index of fluid-induced seismicity 2