

Serge A Shapiro

List of Publications by Year in descending order

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215
papers

7,552
citations

61977

43
h-index

62593

80
g-index

229
all docs

229
docs citations

229
times ranked

3610
citing authors

#	ARTICLE	IF	CITATIONS
1	A Small CO ₂ Leakage May Induce Seismicity on a Sub- ϵ Seismic Fault in a Good- ϵ Porosity Clastic Saline Aquifer. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	7
2	Stress Drop, Seismogenic Index and Fault Cohesion of Fluid-Induced Earthquakes. <i>Rock Mechanics and Rock Engineering</i> , 2021, 54, 5483-5492.	5.4	9
3	Stress Drop Variations in the Region of the 2014 <i>M_w</i> 8.1 Iquique Earthquake, Northern Chile. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020112.	3.4	5
4	Geomechanical stress conditions to induce half-moon events during hydraulic fracturing. <i>Geophysics</i> , 2021, 86, M141-M149.	2.6	0
5	Magnitude and nucleation time of the 2017 Pohang Earthquake point to its predictable artificial triggering. <i>Nature Communications</i> , 2021, 12, 6397.	12.8	9
6	Projecting seismicity induced by complex alterations of underground stresses with applications to geothermal systems. <i>Scientific Reports</i> , 2021, 11, 23560.	3.3	12
7	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	2
8	Arrival-time picking uncertainty: Theoretical estimations and their application to microseismic data. <i>Geophysics</i> , 2020, 85, U65-U76.	2.6	4
9	Fracture mechanics approach to the problem of subsidence induced by resource extraction. <i>Engineering Fracture Mechanics</i> , 2020, 236, 107173.	4.3	8
10	Towards integrated modeling of deformations, time-lapse seismic changes, and failure stresses caused by massive underground fluid operations. , 2020, , .		0
11	Geomechanical conditions to create half-moon events during hydraulic fracturing. , 2019, , .		1
12	Visualizing effects of anisotropy on seismic moments and their potency-tensor isotropic equivalent. <i>Geophysics</i> , 2018, 83, C85-C97.	2.6	9
13	Modeling fluid injection induced microseismicity in shales. <i>Journal of Geophysics and Engineering</i> , 2018, 15, 234-248.	1.4	10
14	Patterns of Rupture Directivity of Subduction Zone Earthquakes in Northern Chile. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 10,785.	3.4	10
15	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.	4.0	17
16	Seismogenic Index of Underground Fluid Injections and Productions. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 7983-7997.	3.4	22
17	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.	2.5	46
18	From Slab Coupling to Slab Pull: Stress Segmentation in the Subducting Nazca Plate. <i>Geophysical Research Letters</i> , 2018, 45, 5407-5416.	4.0	18

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19	The surge of earthquakes in Central Oklahoma has features of reservoir-induced seismicity. Scientific Reports, 2018, 8, 11505.	3.3	34
20	Estimating Rupture Directions from Local Earthquake Data Using the IPOC Observatory in Northern Chile. Seismological Research Letters, 2018, 89, 495-502.	1.9	5
21	Stress impact on elastic anisotropy of triclinic porous and fractured rocks. Journal of Geophysical Research: Solid Earth, 2017, 122, 2034-2053.	3.4	35
22	State of stress and crustal fluid migration related to west-dipping structures in the slab-forearc system in the northern Chilean subduction zone. Geophysical Journal International, 2017, 208, 1403-1413.	2.4	6
23	Elastic properties of two VTI shale samples as a function of uniaxial stress: Experimental results and application of the porosity-deformation approach. Geophysics, 2017, 82, C201-C210.	2.6	15
24	Stress and Pore-Pressure Influence on Elasticity of Arbitrarily Symmetric Porous and Fractured Rocks. , 2017, , .		0
25	Back front of seismicity induced by non-linear pore pressure diffusion. Geophysical Prospecting, 2016, 64, 170-191.	1.9	10
26	Scaling of seismicity induced after injection stop to better understand hydraulic fracturing processes. , 2016, , .		0
27	Performance test of the Seismogenic index model for forecasting magnitude distributions of fluid-injection-induced seismicity. , 2016, , .		2
28	Elastic properties of VTI and HTI shale samples as a function of stress: Laboratory measurements versus theoretical modeling. , 2016, , .		0
29	Understanding of elastic anisotropy of shale under triaxial loading: Porosity-deformation approach. Geophysics, 2016, 81, C163-C175.	2.6	11
30	Rupture directivity of fluid-induced microseismic events: Observations from an enhanced geothermal system. Journal of Geophysical Research: Solid Earth, 2016, 121, 8034-8047.	3.4	30
31	Scaling of seismicity induced by nonlinear fluid-rock interaction after an injection stop. Journal of Geophysical Research: Solid Earth, 2016, 121, 8154-8174.	3.4	14
32	Microseismic reflection imaging of the Central Andean crust. Geophysical Journal International, 2016, 204, 1396-1404.	2.4	10
33	A statistical model for seismic hazard assessment of hydraulic fracturing-induced seismicity. Geophysical Research Letters, 2015, 42, 10,601.	4.0	30
34	Stress-dependent permeability versus stiff and compliant porosity: theory and experiments. , 2015, , .		3
35	Seismic imaging of the geodynamic activity at the western Eger rift in central Europe. Tectonophysics, 2015, 647-648, 105-111.	2.2	9
36	Permeability dependency on stiff and compliant porosities: a model and some experimental examples. Journal of Geophysics and Engineering, 2015, 12, 376-385.	1.4	18

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37	Quantitative analysis of rock stress heterogeneity: Implications for the seismogenesis of fluid-injection-induced seismicity. <i>Geophysics</i> , 2015, 80, WC73-WC88.	2.6	25
38	Microseismic rupture propagation imaging. <i>Geophysics</i> , 2015, 80, WC107-WC115.	2.6	16
39	Microseismic reflection imaging and its application to the Basel geothermal reservoir. <i>Geophysics</i> , 2015, 80, WC39-WC49.	2.6	23
40	High-resolution image of the North Chilean subduction zone: seismicity, reflectivity and fluids. <i>Geophysical Journal International</i> , 2014, 197, 1744-1749.	2.4	43
41	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.	3.4	22
42	Scaling of frequency-magnitude distributions of fluid-induced seismicity. , 2014, , .		0
43	Receiver based analysis of microseismic recordings: A tool for assessing quality of time picks and event locations. , 2014, , .		3
44	Seismic reflectivity of hydraulic fractures approximated by thin fluid layers. <i>Geophysics</i> , 2013, 78, T79-T87.	2.6	14
45	Nonlinear diffusion-based interpretation of induced microseismicity: A Barnett Shale hydraulic fracturing case study. <i>Geophysics</i> , 2013, 78, B211-B226.	2.6	33
46	Seismotectonic state of reservoirs inferred from magnitude distributions of fluid-induced seismicity. <i>Journal of Seismology</i> , 2013, 17, 13-25.	1.3	71
47	Probability of inducing given magnitude earthquakes by perturbing finite volumes of rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 3557-3575.	3.4	58
48	The Pressure Dependence of Permeability as a Function of Stiff and Compliant Porosities. , 2013, , .		3
49	Comment on "Role of seepage forces on seismicity triggering" by Alexander Y. Rozhko. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	4
50	Microseismic estimates of hydraulic diffusivity in case of non-linear fluid-rock interaction. <i>Geophysical Journal International</i> , 2012, 188, 1441-1453.	2.4	37
51	Three-dimensional seismic imaging of tunnels. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2012, 49, 12-20.	5.8	33
52	Multi-source multi-receiver microseismic reflection imaging: case study Basel. , 2012, , .		1
53	Modelling of Fracture Strength Distribution in Elastically Heterogeneous Rocks. , 2012, , .		1
54	Back front signatures of seismicity induced by nonlinear fluid-rock interaction. , 2012, , .		1

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55	Microseismic permeability estimates from hydraulic fracturing of shales.. , 2012, , .		0
56	Influence of elastic heterogeneity on fracture strength distribution in rocks. , 2012, , .		0
57	Inter event times of fluid induced earthquakes suggest their Poisson nature. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	77
58	Fracturing of porous rock induced by fluid injection. Tectonophysics, 2011, 503, 129-145.	2.2	109
59	Acoustic emission induced by pore-pressure changes in sandstone samples. Geophysics, 2011, 76, MA21-MA32.	2.6	43
60	Waveform similarity analysis at Cotton Valley, Texas. , 2011, , .		2
61	Magnitude estimation for microseismicity induced during the KTB 2004/2005 injection experiment. Geophysics, 2011, 76, WC47-WC53.	2.6	7
62	Magnitudes of induced earthquakes and geometric scales of fluid-stimulated rock volumes. Geophysics, 2011, 76, WC55-WC63.	2.6	110
63	Geometric control of earthquake magnitudes by fluid injections in rocks. , 2011, , .		1
64	Application of an Arrival Time and Cross Correlation Value-based Location Algorithm to the Basel 1microseismic Data. , 2011, , .		4
65	Nonlinear diffusion estimates from hydraulic fracturing of shales. , 2011, , .		3
66	Microseismic imaging from a single geophone: KTB. , 2010, , .		15
67	Interpretation of microseismicity induced by timeâ€dependent injection pressure. , 2010, , .		9
68	Interpretation of Microseismicity Resulting from Gel and Water Fracturing of Tight Gas Reservoirs. Pure and Applied Geophysics, 2010, 167, 169-182.	1.9	19
69	Temperature dependence of seismic properties in geothermal rocks at reservoir conditions. Geothermics, 2010, 39, 115-123.	3.4	46
70	Migration-based location of seismicity recorded with an array installed in the main hole of the San Andreas Fault Observatory at Depth (SAFOD). Geophysical Journal International, 2010, , no-no.	2.4	1
71	Seismogenic index and magnitude probability of earthquakes induced during reservoir fluid stimulations. The Leading Edge, 2010, 29, 304-309.	0.7	212
72	Decay rate of fluid-induced seismicity after termination of reservoir stimulations. Geophysics, 2010, 75, MA53-MA62.	2.6	73

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73	Predicting permeability and gas production of hydraulically fractured tight sands from microseismic data. <i>Geophysics</i> , 2010, 75, B1-B10.	2.6	42
74	Seismic imaging using microseismic events: Results from the San Andreas Fault System at SAFOD. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	40
75	An Approach to Analyse Microseismic Event Similarity. , 2010, , .		1
76	Estimates of hydraulic transport parameters using microseismicity induced by nonlinear fluidâ€œrock interaction. , 2010, , .		1
77	Stress-dependent anisotropy in transversely isotropic rocks: Comparison between theory and laboratory experiment on shale. <i>Geophysics</i> , 2009, 74, D7-D12.	2.6	38
78	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.	2.4	9
79	Fluidâ€œinduced seismicity: Pressure diffusion and hydraulic fracturing. <i>Geophysical Prospecting</i> , 2009, 57, 301-310.	1.9	241
80	Reflection Image Spectroscopy across the Andean subduction zone. <i>Tectonophysics</i> , 2009, 472, 51-61.	2.2	23
81	Scaling of seismicity induced by nonlinear fluidâ€œrock interaction. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	102
82	Temporal magnitude distribution of seismicity induced by hydraulic stimulations of hydrocarbon and geothermic reservoirs. , 2009, , .		0
83	Induced seismicity after termination of rock stimulations: Possibilities for reservoir characterization. , 2009, , .		1
84	Understanding Slow Deformation Before Dynamic Failure. , 2009, , 229-247.		3
85	Active seismic imaging using microseismic events. , 2009, , .		4
86	Seismicity Based Reservoir Characterization of Basel Geothermal Site. , 2009, , .		2
87	Influence of nonlinear fluidâ€œrock interaction on estimates of hydraulic diffusivity from microseismic data. , 2009, , .		1
88	Using microseismic data to estimate the inâ€œsitu permeabilities and predict gas production of hydraulically fractured tight sands. , 2009, , .		0
89	The reflection seismic survey of project TIPTEQ-the inventory of the Chilean subduction zone at 38.2Â° S. <i>Geophysical Journal International</i> , 2008, 172, 565-571.	2.4	31
90	Microseismic signatures of hydraulic fracture growth in sediment formations: Observations and modeling. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	78

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91	Attenuation of Seismic Waves Due to Wave-Induced Flow and Scattering in Randomly Heterogeneous Poroelastic Continua. <i>Advances in Geophysics</i> , 2008, , 123-166.	2.8	9
92	Temperature-dependent fluid substitution analysis of geothermal rocks at in-situ reservoir conditions. , 2008, , .		2
93	Chapter 4 Geometrical Optics of Acoustic Media with Anisometric Random Heterogeneities. <i>Advances in Geophysics</i> , 2008, , 95-121.	2.8	1
94	Microseismic monitoring of non-linear fluid-rock interaction: Hydraulic fracturing of geothermic and hydrocarbon reservoirs. , 2008, , .		1
95	Interpretation of Microseismicity Induced by a Gel and a Water Fracturing in Tight Gas Reservoir. , 2008, , .		2
96	Finite-difference modeling of wave propagation on microscale: A snapshot of the work in progress. <i>Geophysics</i> , 2007, 72, SM293-SM300.	2.6	43
97	Fast location of seismicity: A migration-type approach with application to hydraulic-fracturing data. <i>Geophysics</i> , 2007, 72, S33-S40.	2.6	63
98	Violation of the Kaiser effect by hydraulic-fracturing-related microseismicity. <i>Journal of Geophysics and Engineering</i> , 2007, 4, 378-383.	1.4	16
99	Attenuation of P-waves due to interlayer fluid flow in hydrate-bearing sediments. <i>Journal of Geophysics and Engineering</i> , 2007, 4, 394-403.	1.4	9
100	Leaky mode: A mechanism of horizontal seismic attenuation in a gas-hydrate-bearing sediment. <i>Geophysics</i> , 2007, 72, E159-E163.	2.6	9
101	A numerical study on reflection coefficients of fractured media. <i>Geophysics</i> , 2007, 72, D61-D67.	2.6	20
102	Generalization of Gassmann equations for porous media saturated with a solid material. <i>Geophysics</i> , 2007, 72, A75-A79.	2.6	168
103	Statistics of fracture strength and fluid-induced microseismicity. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	54
104	Stress induced elastic anisotropy of the Etnean basalt: Theoretical and laboratory examination. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	24
105	Probability of a given-magnitude earthquake induced by a fluid injection. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	97
106	Microseismicity induced by hydraulic fracturing: Evaluation and interpretation in terms of the Kaiser effect. , 2007, , .		2
107	Microscale modeling of temperature-dependent reflection from poroelastic interface " Application to heavy-oil reservoirs. , 2007, , .		0
108	Rock physics modelling of elastic properties of rocks saturated with heavy oils. <i>ASEG Extended Abstracts</i> , 2007, 2007, 1-4.	0.1	0

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109	Fluid induced seismicity guided by a continental fault: Injection experiment of 2004/2005 at the German Deep Drilling Site (KTB). Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	63
110	Hydraulic-fracturing controlled dynamics of microseismic clouds. Geophysical Research Letters, 2006, 33, .	4.0	117
111	Seismic Images of Accretive and Erosive Subduction Zones from the Chilean Margin. , 2006, , 147-169.		28
112	Leaky mode: A horizontal seismic attenuation mechanism in a gas hydrate-bearing sediment. , 2006, , .		0
113	Effective elastic properties of fractured rocks: Dynamic vs. static considerations. , 2006, , .		1
114	Effective Elastic Properties of Fractured Rocks: Dynamic vs. Static Considerations. International Journal of Fracture, 2006, 139, 569-576.	2.2	33
115	Estimation of the rocks statistical parameters from travelttime measurements. Studia Geophysica Et Geodaetica, 2006, 50, 325-336.	0.5	1
116	Stress Sensitivity of Seismic and Electric Rock Properties of the Upper Continental Crust at the KTB. Pure and Applied Geophysics, 2006, 163, 1021-1029.	1.9	0
117	Two Massive Hydraulic Tests Completed in Deep KTB Pilot Hole. Scientific Drilling, 2006, , .	0.6	4
118	Transmission signatures of gashydrate bearing microstructures: A numerical study. , 2006, , .		0
119	Slow compressional wave in porous media: Finite difference simulations on microscale. , 2006, , .		0
120	Interpretation of microseismicity induced by hydraulic fracturing. , 2006, , .		0
121	Passive seismic monitoring using Gaussian beams with application to borehole data from the San Andreas Fault at Parkfield, California. , 2006, , .		0
122	Interlayer flow as a reason for P-wave attenuation in multilayered gas hydrate-bearing sediments. , 2006, , .		0
123	Numerical Considerations of Fluid Effects on Wave Propagation. , 2005, , 385-394.		0
124	Characterization of hydraulic properties of rocks using probability of fluid-induced microearthquakes. Geophysics, 2005, 70, F27-F33.	2.6	100
125	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.	5.8	1
126	Scattering and diffraction by a single crack: an accuracy analysis of the rotated staggered grid. Geophysical Journal International, 2005, 162, 25-31.	2.4	43

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127	Estimating statistical parameters of an elastic random medium from travelttime fluctuations of refracted waves. <i>Waves in Random and Complex Media</i> , 2005, 15, 43-60.	2.7	5
128	Evidence for triggering of the Vogtland swarms 2000 by pore pressure diffusion. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	63
129	Seismic effects of viscous Biot-coupling: Finite difference simulations on micro-scale. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	4.0	42
130	Porosity and elastic anisotropy of rocks under tectonic stress and pore-pressure changes. <i>Geophysics</i> , 2005, 70, N27-N38.	2.6	109
131	Fluid-Induced Seismicity: Theory, Modeling, and Applications. <i>Journal of Engineering Mechanics - ASCE</i> , 2005, 131, 947-952.	2.9	16
132	Viscous fluid effects on wave propagation: a finite difference modeling approach in combination with flow simulations. , 2005, , .		0
133	Numerical considerations of fluid effects on wave propagation. , 2005, , .		0
134	Stress sensitivity of elastic moduli and electrical resistivity in porous rocks. <i>Journal of Geophysics and Engineering</i> , 2004, 1, 1-11.	1.4	66
135	Characterization of fluid transport properties of the Hot Dry Rock reservoir Soultz-2000 using induced microseismicity. <i>Journal of Geophysics and Engineering</i> , 2004, 1, 77-83.	1.4	30
136	Effective elastic properties of randomly fractured soils: 3D numerical experiments. <i>Geophysical Prospecting</i> , 2004, 52, 183-195.	1.9	108
137	Back front of seismicity induced after termination of borehole fluid injection. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	102
138	A statistical model for the seismicity rate of fluid-injection-induced earthquakes. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	20
139	Numerical considerations of fluid effects on wave propagation: Influence of the tortuosity. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	35
140	Scattering attenuation in randomly layered structures with finite lateral extent: A hybrid Q model. <i>Geophysics</i> , 2004, 69, 1530-1534.	2.6	10
141	Fluid effects on wave propagation: A numerical study. , 2004, , .		0
142	Hydraulic diffusivity estimations based on the seismicity rate of fluid injection induced earthquakes. , 2004, , .		1
143	Reflection coefficients of fractured rocks: A numerical study. , 2004, , .		3
144	Reservoir characterization using passive seismic monitoring: Physical fundamentals and road ahead. , 2004, , .		3

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145	Location of seismicity using Gaussian beam type migration. , 2004, , .		10
146	Numerical Rock Physics: Fluid Effects on Wave Propagation. ASEG Extended Abstracts, 2004, 2004, 1-4.	0.1	0
147	Effects of Parallel Crack Distributions on Effective Elastic Properties - a Numerical Study. International Journal of Fracture, 2003, 124, L171-L178.	2.2	36
148	Triggering of Seismicity by Pore-pressure Perturbations: Permeability-related Signatures of the Phenomenon. Pure and Applied Geophysics, 2003, 160, 1051-1066.	1.9	170
149	Statistical properties of reflection traveltimes in 3-D randomly inhomogeneous and anisotropic media. Geophysical Journal International, 2003, 154, 841-851.	2.4	14
150	Amplitude fluctuations due to diffraction and refraction in anisotropic random media: implications for seismic scattering attenuation estimates. Geophysical Journal International, 2003, 155, 139-148.	2.4	14
151	Along-strike variations of crustal reflectivity related to the Andean subduction process. Geophysical Research Letters, 2003, 30, .	4.0	15
152	Seismic imaging of a convergent continental margin and plateau in the central Andes (Andean Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 46	3.3	128
153	Mutual relationship between microseismicity and seismic reflectivity: Case study at the German Continental Deep Drilling Site (KTB). Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	12
154	Pore-pressure diffusion: A possible triggering mechanism for the earthquake swarms 2000 in Vogtland/NW-Bohemia, central Europe. Geophysical Research Letters, 2003, 30, .	4.0	134
155	Microseismic monitoring of borehole fluid injections: Data modeling and inversion for hydraulic properties of rocks. Geophysics, 2003, 68, 685-689.	2.6	110
156	Elastic piezosensitivity of porous and fractured rocks. Geophysics, 2003, 68, 482-486.	2.6	255
157	Amplitude corrections for randomly distributed heterogeneities above a target reflector. Geophysics, 2003, 68, 1497-1502.	2.6	15
158	Numerical rock physics: The Gassmann equation. , 2003, , .		0
159	Variation in dynamic elastic shear modulus of sandstone upon fluid saturation and substitution. Geophysics, 2003, 68, 472-481.	2.6	74
160	Application of the piezosensitivity approach: Changes of elastic moduli of isotropic and anisotropic porous rocks under isostatic loads. , 2003, , .		1
161	Physical fundamentals of seismicity based reservoir characterization. , 2003, , .		0
162	Characterization of fluid transport properties of reservoirs using induced microseismicity. Geophysics, 2002, 67, 212-220.	2.6	287

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163	Simulation of the diffraction by single cracks: An accuracy study. , 2002, , .		4
164	Microseismic monitoring of borehole fluid injections: Data modeling and inversion for hydraulic properties of rocks. , 2002, , .		2
165	Seismic signatures of fluid transportâ€”Introduction. Geophysics, 2002, 67, 197-198.	2.6	4
166	Broad depth range seismic imaging of the subducted Nazca Slab, North Chile. Tectonophysics, 2002, 350, 273-282.	2.2	25
167	Seismogenic plane of the northern Andean Subduction Zone from aftershocks of the Antofagasta (Chile) 1995 earthquake. Geophysical Research Letters, 2002, 29, 105-1-105-4.	4.0	11
168	Effective velocities in fractured media: a numerical study using the rotated staggered finite-difference grid. Geophysical Prospecting, 2002, 50, 183-194.	1.9	133
169	Most probable ballistic waves in random media: a weak-fluctuation approximation and numerical results. Waves in Random and Complex Media, 2002, 12, 223-245.	1.5	19
170	Simulation of effective elastic properties of 3D fractured medium. , 2002, , .		1
171	Wave Propagation in Heterogeneous Media. Part 1: Effective Velocities in Fractured Media. , 2002, , 469-475.		0
172	A hybrid scattering Q model for randomly layered structures with finite lateral extent. , 2002, , .		0
173	Wave Propagation in Heterogeneous Media. Part 2: Attenuation of Seismic Waves Due to Scattering. , 2002, , 476-482.		1
174	On the stress dependence of seismic velocities in porous rocks. , 2002, , .		0
175	Seismic scattering attenuation estimates for the German KTB Area derived from well-log statistics. Geophysical Research Letters, 2001, 28, 3761-3764.	4.0	13
176	Microseismic reservoir characterization: Numerical experiments and case studies. , 2001, , .		4
177	Most probable seismic pulses in single realizations of two- and three-dimensional random media. Geophysical Journal International, 2001, 144, 83-95.	2.4	33
178	Fast repeat-modelling of time-lapse seismograms. Geophysical Prospecting, 2001, 49, 557-569.	1.9	10
179	True amplitude migration in the presence of a statistically heterogeneous overburden. , 2001, , .		0
180	A numerical study of effective velocities in fractured media: Intersecting and parallel cracks. , 2001, , .		0

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181	Reply to comment by F. H. Cornet on 'Large-scale in situ permeability tensor of rocks from induced microseismicity'. Geophysical Journal International, 2000, 140, 470-473.	2.4	26
182	An inversion for fluid transport properties of three-dimensionally heterogeneous rocks using induced microseismicity. Geophysical Journal International, 2000, 143, 931-936.	2.4	23
183	Modeling the propagation of elastic waves using a modified finite-difference grid. Wave Motion, 2000, 31, 77-92.	2.0	536
184	An approach to upscaling for seismic waves in statistically isotropic heterogeneous elastic media. Geophysics, 2000, 65, 1837-1850.	2.6	44
185	A numerical study of effective velocities in fractured media using the rotated staggered finite difference grid. , 2000, , .		1
186	Summary of Project 11172. , 2000, , 26-26.		0
187	Frequencyâ€dependent shearâ€wave splitting in thinly layered media with intrinsic anisotropy. Geophysics, 1999, 64, 604-608.	2.6	11
188	Seismic signatures of permeability in heterogeneous porous media. Geophysics, 1999, 64, 99-103.	2.6	73
189	Large-scale in situ permeability tensor of rocks from induced microseismicity. Geophysical Journal International, 1999, 137, 207-213.	2.4	152
190	An inversion for the permeability tensor by using seismic emission. , 1999, , .		4
191	Fast Repeat-Modelling with Born Approximation. , 1999, , .		1
192	Dynamic poroelasticity of thinly layered structures. International Journal of Solids and Structures, 1998, 35, 4739-4751.	2.7	88
193	Ultrasonic signal analysis to monitor damage development in short fiber-reinforced polymers. Ultrasonics, 1998, 36, 455-460.	3.9	11
194	Intrinsic anisotropy and thin multilayering-two anisotropy effects combined. Geophysical Journal International, 1998, 132, 363-373.	2.4	13
195	Scattering parameters of the lithosphere below the Massif Central, France, from teleseismic wavefield records. Geophysical Journal International, 1998, 134, 187-198.	2.4	24
196	Scattering of a compressional wave in a poroelastic medium by an ellipsoidal inclusion. Geophysical Journal International, 1998, 133, 91-103.	2.4	49
197	Making the Simulation of Monitoring Experiments More Efficient. , 1998, , .		1
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