

Serge A Shapiro

List of Publications by Year in descending order

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215
papers

7,552
citations

61984

43
h-index

62596

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-€Seismic Fault in a Good-€Porosity Clastic Saline Aquifer. Geophysical Research Letters, 2022, 49, .	4.0	7
2	Stress Drop, Seismogenic Index and Fault Cohesion of Fluid-Induced Earthquakes. Rock Mechanics and Rock Engineering, 2021, 54, 5483-5492.	5.4	9
3	Stress Drop Variations in the Region of the 2014 <i>M</i>_{<i>W</i>}8.1 Iquique Earthquake, Northern Chile. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB020112.	3.4	5
4	Geomechanical stress conditions to induce half-moon events during hydraulic fracturing. Geophysics, 2021, 86, M141-M149.	2.6	0
5	Magnitude and nucleation time of the 2017 Pohang Earthquake point to its predictable artificial triggering. Nature Communications, 2021, 12, 6397.	12.8	9
6	Projecting seismicity induced by complex alterations of underground stresses with applications to geothermal systems. Scientific Reports, 2021, 11, 23560.	3.3	12
7	Understanding Vectorial Migration Patterns of Wastewater-Induced Earthquakes in the United States. Bulletin of the Seismological Society of America, 2020, 110, 2295-2307.	2.3	2
8	Arrival-time picking uncertainty: Theoretical estimations and their application to microseismic data. Geophysics, 2020, 85, U65-U76.	2.6	4
9	Fracture mechanics approach to the problem of subsidence induced by resource extraction. Engineering Fracture Mechanics, 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. Geophysics, 2018, 83, C85-C97.	2.6	9
13	Modeling fluid injection induced microseismicity in shales. Journal of Geophysics and Engineering, 2018, 15, 234-248.	1.4	10
14	Patterns of Rupture Directivity of Subduction Zone Earthquakes in Northern Chile. Journal of Geophysical Research: Solid Earth, 2018, 123, 10,785.	3.4	10
15	Fluids Along the Plate Interface Influencing the Frictional Regime of the Chilean Subduction Zone, Northern Chile. Geophysical Research Letters, 2018, 45, 10,378.	4.0	17
16	Seismogenic Index of Underground Fluid Injections and Productions. Journal of Geophysical Research: Solid Earth, 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. Geochemistry, Geophysics, Geosystems, 2018, 19, 3189-3207.	2.5	46
18	From Slab Coupling to Slab Pull: Stress Segmentation in the Subducting Nazca Plate. Geophysical Research Letters, 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 fluidâ€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 fluidâ€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 hydraulicâ€fracturingâ€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 1 microseismic 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. Geophysics, 2010, 75, B1-B10.	2.6	42
74	Seismic imaging using microseismic events: Results from the San Andreas Fault System at SAFOD. Journal of Geophysical Research, 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€rock interaction. , 2010, , .		1
77	Stress-dependent anisotropy in transversely isotropic rocks: Comparison between theory and laboratory experiment on shale. Geophysics, 2009, 74, D7-D12.	2.6	38
78	Temperature-dependent poroelastic and viscoelastic effects on microscale-modelling of seismic reflections in heavy oil reservoirs. Geophysical Journal International, 2009, 176, 822-832.	2.4	9
79	Fluidâ€induced seismicity: Pressure diffusion and hydraulic fracturing. Geophysical Prospecting, 2009, 57, 301-310.	1.9	241
80	Reflection Image Spectroscopy across the Andean subduction zone. Tectonophysics, 2009, 472, 51-61.	2.2	23
81	Scaling of seismicity induced by nonlinear fluidâ€rock interaction. Journal of Geophysical Research, 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€rock interaction on estimates of hydraulic diffusivity from microseismic data. , 2009, , .		1
88	Using microseismic data to estimate the inâ€situ 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. Geophysical Journal International, 2008, 172, 565-571.	2.4	31
90	Microseismic signatures of hydraulic fracture growth in sediment formations: Observations and modeling. Journal of Geophysical Research, 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. Waves in Random and Complex Media, 2005, 15, 43-60.	2.7	5
128	Evidence for triggering of the Vogtland swarms 2000 by pore pressure diffusion. Journal of Geophysical Research, 2005, 110, .	3.3	63
129	Seismic effects of viscous Biot-coupling: Finite difference simulations on micro-scale. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	42
130	Porosity and elastic anisotropy of rocks under tectonic stress and pore-pressure changes. Geophysics, 2005, 70, N27-N38.	2.6	109
131	Fluid-Induced Seismicity: Theory, Modeling, and Applications. Journal of Engineering Mechanics - ASCE, 2005, 131, 947-952.	2.9	16
132	Viscous fluid effects on wave propagation: a finiteâ€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. Journal of Geophysics and Engineering, 2004, 1, 1-11.	1.4	66
135	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.	1.4	30
136	Effective elastic properties of randomly fractured soils: 3D numerical experiments. Geophysical Prospecting, 2004, 52, 183-195.	1.9	108
137	Back front of seismicity induced after termination of borehole fluid injection. Geophysical Research Letters, 2004, 31, .	4.0	102
138	A statistical model for the seismicity rate of fluid-injection-induced earthquakes. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	20
139	Numerical considerations of fluid effects on wave propagation: Influence of the tortuosity. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	35
140	Scattering attenuation in randomly layered structures with finite lateral extent: A hybrid Q model. Geophysics, 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 fluidâ€injectionâ€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 transport – 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
198	Poroelastic Backus averaging for anisotropic layered fluidâ€and gasâ€saturated sediments. Geophysics, 1997, 62, 1867-1878.	2.6	103

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199	Multiple scattering of seismic waves in multilayered structures. Physics of the Earth and Planetary Interiors, 1997, 104, 147-159.	1.9	11
200	Estimating the crust permeability from fluid-injection-induced seismic emission at the KTB site. Geophysical Journal International, 1997, 131, F15-F18.	2.4	446
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202	Dynamic "equivalent" medium approach for layered saturated and porous sediments. , 1996, , .		0
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