

J Germán Rubino

List of Publications by Year in descending order

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81
papers

1,624
citations

279798

23
h-index

315739

38
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86
all docs

86
docs citations

86
times ranked

544
citing authors

#	ARTICLE	IF	CITATIONS
1	Effects of Fracture Connectivity on Rayleigh Wave Dispersion. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	2
2	Numerical Upscaling of Seismic Signatures of Poroelastic Rocks Containing Mesoscopic Fluid-Saturated Voids. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	4
3	Fractures in Low-Permeability Rocks: Can Poroelastic Effects Associated With Damage Zones Enhance Their Seismic Visibility?. Journal of Geophysical Research: Solid Earth, 2021, 126, e2020JB021155.	3.4	3
4	Squirt flow in partially saturated cracks: a simple analytical model. Geophysical Journal International, 2021, 227, 680-692.	2.4	5
5	Seismic Signatures of Fractured Porous Rocks: The Partially Saturated Case. Journal of Geophysical Research: Solid Earth, 2020, 125, e2020JB019960.	3.4	10
6	Impact of poroelastic effects on the inversion of fracture properties from amplitude variation with offset and azimuth data in horizontal transversely isotropic media. Geophysics, 2020, 85, N27-N39.	2.6	3
7	Fluid pressure diffusion effects on the excess compliance matrix of porous rocks containing aligned fractures. Geophysical Journal International, 2020, 222, 715-733.	2.4	1
8	Dynamic permeability functions for partially saturated porous media. Geophysical Journal International, 2020, 221, 1182-1189.	2.4	10
9	Effects of fracture connectivity on Rayleigh wave velocity dispersion. , 2020, , .		1
10	Poroelastic effects of the damaged zone on fracture reflectivity and normal compliance. , 2020, , .		0
11	Attenuation mechanisms in fractured fluid-saturated porous rocks: a numerical modelling study. Geophysical Prospecting, 2019, 67, 935-955.	1.9	32
12	Seismic attenuation and dispersion in poroelastic media with fractures of variable aperture distributions. Solid Earth, 2019, 10, 1321-1336.	2.8	18
13	Saturation Hysteresis Effects on the Seismic Signatures of Partially Saturated Heterogeneous Porous Rocks. Journal of Geophysical Research: Solid Earth, 2019, 124, 11316-11335.	3.4	13
14	Estimation of Fracture Compliance From Attenuation and Velocity Analysis of Full-Waveform Sonic Log Data. Journal of Geophysical Research: Solid Earth, 2019, 124, 2738-2761.	3.4	28
15	Modelling the effects of capillary hysteresis on the normal compliance of individual fractures. , 2019, , .		0
16	Dynamic seismic signatures of saturated porous rocks containing two orthogonal sets of fractures: theory versus numerical simulations. Geophysical Journal International, 2018, 213, 1244-1262.	2.4	19
17	Seismic dispersion and attenuation in saturated porous rocks with aligned fractures of finite thickness: Theory and numerical simulations – Part 2: Frequency-dependent anisotropy. Geophysics, 2018, 83, WA63-WA71.	2.6	44
18	Seismic Attenuation and Stiffness Modulus Dispersion in Porous Rocks Containing Stochastic Fracture Networks. Journal of Geophysical Research: Solid Earth, 2018, 123, 125-143.	3.4	45

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19	Seismic dispersion and attenuation in saturated porous rocks with aligned fractures of finite thickness: Theory and numerical simulations – Part 1: P-wave perpendicular to the fracture plane. <i>Geophysics</i> , 2018, 83, WA49-WA62.	2.6	77
20	Seismic Signatures of Fractured Reservoirs: Theory Versus Numerical Simulations. <i>ASEG Extended Abstracts</i> , 2018, 2018, 1-5.	0.1	1
21	Impact of fracture clustering on the seismic signatures of porous rocks containing aligned fractures. <i>Geophysics</i> , 2018, 83, MR295-MR308.	2.6	9
22	Deciphering fractured rock properties from seismic wavefields – Introduction. <i>Geophysics</i> , 2018, 83, WAI-WAii.	2.6	0
23	Extension of the classical linear slip model for fluid-saturated fractures: Accounting for fluid pressure diffusion effects. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 1302-1323.	3.4	18
24	Modeling Forced Imbibition Processes and the Associated Seismic Attenuation in Heterogeneous Porous Rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9031-9049.	3.4	10
25	Effects of Finite Fracture Thickness on Seismic Dispersion and Attenuation in Saturated Rocks with Aligned Penny-Shaped Cracks: Theory versus Numerical Simulation. , 2017, , .		0
26	Attenuation in Fluid-Saturated Fractured Porous Media – Quasi-Static Numerical Upscaling and Wave Propagation Modeling. , 2017, , .		1
27	Seismic Attenuation in Realistic Fracture Networks. , 2017, , .		3
28	Fracture connectivity can reduce the velocity anisotropy of seismic waves. <i>Geophysical Journal International</i> , 2017, 210, 223-227.	2.4	26
29	Effects of fracture intersections on seismic dispersion: theoretical predictions versus numerical simulations. <i>Geophysical Prospecting</i> , 2017, 65, 1264-1276.	1.9	53
30	Sensitivity of Seismic Attenuation and Phase Velocity to Intrinsic Background Anisotropy in Fractured Porous Rocks: A Numerical Study. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 8181-8199.	3.4	16
31	Fluid pressure diffusion effects on the seismic reflectivity of a single fracture. <i>Journal of the Acoustical Society of America</i> , 2016, 140, 2554-2570.	1.1	21
32	Numerical upscaling in heterogeneous poroelastic rocks: Anisotropic attenuation and dispersion of seismic waves. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 6698-6721.	3.4	61
33	Numerical upscaling of frequency-dependent P- and S-wave moduli in fractured porous media. <i>Geophysical Prospecting</i> , 2016, 64, 1166-1179.	1.9	21
34	A generalized effective anisotropic poroelastic model for periodically layered media accounting for both Biot's global and interlayer flows. <i>Geophysical Prospecting</i> , 2016, 64, 1135-1148.	1.9	10
35	An energy-based approach to estimate seismic attenuation due to wave-induced fluid flow in heterogeneous poroelastic media. <i>Geophysical Journal International</i> , 2016, 207, 823-832.	2.4	22
36	A simple hydromechanical approach for simulating squirt-type flow. <i>Geophysics</i> , 2016, 81, D335-D344.	2.6	45

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37	Representative elementary volumes for evaluating effective seismic properties of heterogeneous poroelastic media. <i>Geophysics</i> , 2016, 81, D169-D181.	2.6	20
38	Representative elementary volumes for evaluating effective seismic properties of heterogeneous poroelastic media. <i>Geophysics</i> , 2016, 81, D21-D33.	2.6	2
39	Energy dissipation of P- and S-waves in fluid-saturated rocks: An overview focusing on hydraulically connected fractures. <i>Journal of Earth Science (Wuhan, China)</i> , 2015, 26, 785-790.	3.2	8
40	Acoustics of Partially Saturated Rocks: Theory and Experiments. , 2015, , 45-75.		1
41	An analytical study of seismoelectric signals produced by 1-D mesoscopic heterogeneities. <i>Geophysical Journal International</i> , 2015, 201, 329-342.	2.4	13
42	Including poroelastic effects in the linear slip theory. <i>Geophysics</i> , 2015, 80, A51-A56.	2.6	19
43	Attenuation of sonic waves in water-saturated alluvial sediments due to wave-induced fluid flow at microscopic, mesoscopic and macroscopic scales. <i>Geophysical Journal International</i> , 2015, 203, 146-157.	2.4	10
44	Seismic anisotropy in fractured low-permeability formations: The effects of hydraulic connectivity. , 2015, , .		8
45	A simple hydro-mechanical approach to simulate squirt-type flow at any scale. , 2015, , .		2
46	Can we use seismic waves to detect hydraulic connectivity between fractures?. , 2014, , .		2
47	Velocity and attenuation characteristics of P-waves in periodically fractured media as inferred from numerical creep and relaxation tests. , 2014, , .		2
48	Seismoacoustic signatures of fracture connectivity. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 2252-2271.	3.4	93
49	Wave attenuation in partially saturated porous rocks " New observations and interpretations across scales. <i>The Leading Edge</i> , 2014, 33, 606-614.	0.7	5
50	An energy-based approach to estimate seismic attenuation due to wave-induced fluid flow. , 2014, , .		1
51	Seismic attenuation: effects of interfacial impedance on wave-induced pressure diffusion. <i>Geophysical Journal International</i> , 2014, 199, 1677-1681.	2.4	22
52	Sensitivity of S-wave attenuation to the connectivity of fractures in fluid-saturated rocks. <i>Geophysics</i> , 2014, 79, WB15-WB24.	2.6	62
53	Incorporating capillarity into models for P-wave attenuation and dispersion in partially saturated rocks. , 2014, , .		1
54	Seismic attenuation and velocity dispersion in fractured rocks: The role played by fracture contact areas. <i>Geophysical Prospecting</i> , 2014, 62, 1278-1296.	1.9	9

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55	Quantitative comparison between simulations of seismic wave propagation in heterogeneous poro-elastic media and equivalent visco-elastic solids for marine-type environments. <i>Geophysical Journal International</i> , 2013, 193, 463-474.	2.4	8
56	Fracture Connectivity Effects on Seismic Attenuation. , 2013, , .		1
57	Research note: Seismic attenuation due to wave-induced fluid flow at microscopic and mesoscopic scales. <i>Geophysical Prospecting</i> , 2013, 61, 882-889.	1.9	39
58	Do seismic waves sense fracture connectivity?. <i>Geophysical Research Letters</i> , 2013, 40, 692-696.	4.0	91
59	Seismic wave attenuation and dispersion due to wave-induced fluid flow in rocks with strong permeability fluctuations. <i>Journal of the Acoustical Society of America</i> , 2013, 134, 4742-4751.	1.1	21
60	A Comparison of Seismic Attenuation Models for Unconsolidated Surficial Sediments: Evidence from Multi-Frequency Sonic Logs. , 2013, , .		0
61	Seismoelectric effects due to mesoscopic heterogeneities. <i>Geophysical Research Letters</i> , 2013, 40, 2033-2037.	4.0	35
62	Numerical and laboratory measurements of seismic attenuation in partially saturated rocks. , 2012, , .		0
63	Dynamic permeability of heterogeneous porous rocks having strong permeability fluctuations and its effects on seismic attenuation and velocity dispersion. , 2012, , .		2
64	Seismic attenuation and velocity dispersion in heterogeneous partially saturated porous rocks. <i>Geophysical Journal International</i> , 2012, 188, 1088-1102.	2.4	67
65	Permeability effects on the seismic response of gas reservoirs. <i>Geophysical Journal International</i> , 2012, 189, 448-468.	2.4	27
66	Quantitative comparison of simulations of seismic wave propagation in heterogeneous poro-elastic media involving fluid-solid interfaces and in equivalent visco-elastic solids. , 2012, , .		0
67	Numerical analysis of wave-induced fluid flow effects on seismic data: Application to monitoring of CO ₂ storage at the Sleipner field. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	47
68	Seismic characterization of thin beds containing patchy carbon dioxide-brine distributions: A study based on numerical simulations. <i>Geophysics</i> , 2011, 76, R57-R67.	2.6	22
69	Quantitative characterization of CO ₂ -bearing thin layers at the Sleipner field using spectral inversion. , 2011, , .		4
70	Seismic attenuation in heterogeneous partially saturated rocks. , 2011, , .		0
71	A viscoelastic representation of wave attenuation in porous media. <i>Computers and Geosciences</i> , 2010, 36, 44-53.	4.2	35
72	A numerical upscaling procedure to estimate effective plane wave and shear moduli in heterogeneous fluid-saturated poroelastic media. <i>Computer Methods in Applied Mechanics and Engineering</i> , 2009, 198, 2067-2077.	6.6	23

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73	Equivalent viscoelastic solids for heterogeneous fluid-saturated porous rocks. <i>Geophysics</i> , 2009, 74, N1-N13.	2.6	135
74	Thin-bed prestack spectral inversion. <i>Geophysics</i> , 2009, 74, R49-R57.	2.6	27
75	Biot-type scattering effects in gas hydrate-bearing sediments. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	6
76	Modeling mesoscopic attenuation in a highly heterogeneous Biot's medium employing an equivalent viscoelastic model. , 2008, , .		4
77	P-wave seismic attenuation by slow-wave diffusion: Numerical experiments in partially saturated rocks. <i>Geophysics</i> , 2007, 72, N11-N21.	2.6	45
78	Simulation of upscaling effects due to wave-induced fluid flow in Biot media using the finite-element method. <i>Journal of Applied Geophysics</i> , 2007, 62, 193-203.	2.1	27
79	Statistical analysis of the effective velocity and mesoscopic attenuation in patchy saturated porous media. , 2007, , .		1
80	Reflection and transmission of waves in composite porous media: A quantification of energy conversions involving slow waves. <i>Journal of the Acoustical Society of America</i> , 2006, 120, 2425-2436.	1.1	37
81	Modeling the reflection coefficients and slow wave mode conversions at the top and bottom of a gas hydrate bearing interval. , 2006, , .		0