

Davide Gei

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5150840/publications.pdf>

Version: 2024-02-01

49
papers

1,289
citations

471509

17
h-index

361022

35
g-index

50
all docs

50
docs citations

50
times ranked

882
citing authors

#	ARTICLE	IF	CITATIONS
1	Elastic velocity models for gas-hydrate-bearing sediments-a comparison. Geophysical Journal International, 2004, 159, 573-590.	2.4	174
2	Physics and Seismic Modeling for Monitoring CO2 Storage. Pure and Applied Geophysics, 2006, 163, 175-207.	1.9	145
3	Estimation of gas hydrate concentration from multi-component seismic data at sites on the continental margins of NW Svalbard and the Storegga region of Norway. Marine and Petroleum Geology, 2008, 25, 744-758.	3.3	114
4	Acoustic properties of sediments saturated with gas hydrate, free gas and water. Geophysical Prospecting, 2003, 51, 141-158.	1.9	105
5	The peak frequency of direct waves for microseismic events. Geophysics, 2013, 78, A45-A49.	2.6	70
6	Gas-hydrate concentration estimated from P- and S-wave velocities at the Mallik 2L-38 research well, Mackenzie Delta, Canada. Journal of Applied Geophysics, 2004, 56, 73-78.	2.1	68
7	3-D wave simulation in anelastic media using the Kelvin-Voigt constitutive equation. Journal of Computational Physics, 2004, 196, 282-297.	3.8	68
8	Acoustic and electromagnetic properties of soils saturated with salt water and NAPL. Journal of Applied Geophysics, 2003, 52, 177-191.	2.1	64
9	Attenuation tomography: An application to gas-hydrate and free-gas detection. Geophysical Prospecting, 2007, 55, 655-669.	1.9	61
10	Estimation of gas-hydrate concentration and free-gas saturation at the Norwegian-Svalbard continental margin. Geophysical Prospecting, 2005, 53, 803-810.	1.9	46
11	Cross-hole electromagnetic and seismic modeling for CO2 detection and monitoring in a saline aquifer. Journal of Petroleum Science and Engineering, 2012, 100, 162-172.	4.2	45
12	Q-anisotropy in finely-layered media. Geophysical Research Letters, 2010, 37, .	4.0	29
13	The velocity of energy through a dissipative medium. Geophysics, 2010, 75, T37-T47.	2.6	26
14	Seismic modeling to monitor CO ₂ geological storage: The Atzbach-Schwanenstadt gas field. Journal of Geophysical Research, 2012, 117, .	3.3	24
15	Canonical analytical solutions of wave-induced thermoelastic attenuation. Geophysical Journal International, 2020, 221, 835-842.	2.4	24
16	Hybrid multiplicative time-reversal imaging reveals the evolution of microseismic events: Theory and field-data tests. Geophysics, 2019, 84, KS71-KS83.	2.6	22
17	Feasibility of estimating vertical transverse isotropy from microseismic data recorded by surface monitoring arrays. Geophysics, 2011, 76, WC117-WC126.	2.6	20
18	Theory and numerical simulation of fluid-pressure diffusion in anisotropic porous media. Geophysics, 2009, 74, N31-N39.	2.6	18

#	ARTICLE	IF	CITATIONS
19	Fresnel reflection coefficients for GPR CAVA analysis and detection of seawater and NAPL contaminants. Near Surface Geophysics, 2006, 4, 253-263.	1.2	17
20	Cross-well seismic and electromagnetic tomography for CO2 detection and monitoring in a saline aquifer. Journal of Petroleum Science and Engineering, 2015, 133, 245-257.	4.2	17
21	Effective VTI anisotropy for consistent monitoring of microseismic events. The Leading Edge, 2011, 30, 772-776.	0.7	13
22	Data-Driven Design of Wave Propagation Models for Shale Oil Reservoirs Based on Machine Learning. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022665.	3.4	13
23	Risk Assessment-Led Characterisation of the Site Char UK North Sea Site for the Geological Storage of CO ₂ . Oil and Gas Science and Technology, 2015, 70, 567-586.	1.4	12
24	Effect of Clay and Mineralogy on Permeability. Pure and Applied Geophysics, 2019, 176, 2581-2594.	1.9	12
25	A model for CO2 storage and seismic monitoring combining multiphase fluid flow and wave propagation simulators. The Sleipner-field case. Computational Geosciences, 2017, 21, 223-239.	2.4	11
26	Seismic modelling study of a subglacial lake. Geophysical Prospecting, 2003, 51, 501-515.	1.9	8
27	Sensitivity analysis from single-well ERT simulations to image CO ₂ migrations along wellbores. The Leading Edge, 2013, 32, 504-512.	0.7	8
28	Seismic attenuation, normal moveout stretch, and low-frequency shadows underlying bottom simulating reflector events. Geophysical Prospecting, 2018, 66, 857-871.	1.9	8
29	Windowless Q-factor tomography by the instantaneous frequency. Geophysical Prospecting, 2020, 68, 2611-2636.	1.9	5
30	On the Earthquake-Source Numerical Implementation in the Seismic Wave Equation. Journal of Earthquake Engineering, 2015, 19, 48-59.	2.5	4
31	Imaging septaria geobody in the Boom Clay using a <i>Q</i> -compensated reverse-time migration. Geologie En Mijnbouw/Netherlands Journal of Geosciences, 2016, 95, 283-291.	0.9	4
32	Backus and Wyllie Averages for Seismic Attenuation. Pure and Applied Geophysics, 2018, 175, 165-170.	1.9	4
33	Finite-element numerical simulations of seismic attenuation in finely layered rocks. Journal of the Acoustical Society of America, 2020, 148, 1978-1983.	1.1	4
34	25. Wave Theory, Simulation, and Determination of Gas-Hydrate Content in Sediments. , 2010, , 349-372.		3
35	Reply to "The peak frequency of direct waves for microseismic events" (Leo Eisner, Davide Gei). Tj ETQq1 1 0.784314 rgBT /Over X23-X25.	2.6	3
36	Analysis of capillary pressure effect on the seismic response of a CO ₂ -storage site applying multiphase flow and wave propagation simulators. International Journal of Greenhouse Gas Control, 2015, 39, 335-348.	4.6	3

#	ARTICLE	IF	CITATIONS
37	Porosity and permeability of the overburden from wireline logs: a case study from offshore Malaysia. Geomechanics and Geophysics for Geo-Energy and Geo-Resources, 2020, 6, 1.	2.9	3
38	Petrophysical and numerical seismic modelling of CO ₂ geological storage in the E6 structure, Baltic Sea, offshore Latvia. Petroleum Geoscience, 2016, 22, 153-164.	1.5	2
39	Synergy of CO ₂ Storage and Oil Recovery in Different Geological Formations: Case Study in the Baltic Sea. Energy Procedia, 2017, 114, 7047-7054.	1.8	2
40	Influence of capillary pressure on CO ₂ storage and monitoring. , 2014, , .		2
41	Seismic Numerical Modelling to Monitor CO ₂ Storage in the Baltic Sea Offshore Structure. , 2013, , .		2
42	The Peak Frequency of Direct Waves for Microseismic Events. , 2013, , .		2
43	Numerical investigation of the seismic detectability of carbonate thin beds in the Boom Clay formation. Geophysical Journal International, 2016, 206, 63-84.	2.4	1
44	Simulation of Ground Motion and Synthetic Seismograms. The 1908 Messina Earthquake.. Environmental Semeiotics, 2009, 2, 1-15.	0.5	1
45	A numerical procedure to model and monitor CO ₂ sequestration in aquifers. Journal of Physics: Conference Series, 2013, 410, 012085.	0.4	0
46	Sensitivity analysis of the petrophysical properties variations on the seismic response of a CO ₂ storage site. , 2017, , .		0
47	Seismic methods to detect and quantify gas hydrate in sediments. , 2006, , .		0
48	4-D SEISMICS, GAS-HYDRATE DETECTION AND OVERPRESSURE PREDICTION AS A COMBINED METHODOLOGY FOR APPLICATION TO CO ₂ SEQUESTRATION. , 2006, , 315-323.		0
49	Time-lapse Q-factor tomography by reflected wavesâ€™ inversion. , 2020, , .		0