Davide Gei

List of Publications by Year
in descending order

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	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
2	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
3	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
4	Windowless Q‐factor tomography by the instantaneous frequency. Geophysical Prospecting, 2020, 68, 2611-2636.	1.9	5
5	Canonical analytical solutions of wave-induced thermoelastic attenuation. Geophysical Journal International, 2020, 221, 835-842.	2.4	24
6	Time-lapse Q-factor tomography by reflected waves' inversion. , 2020, , .		0
7	Effect of Clay and Mineralogy on Permeability. Pure and Applied Geophysics, 2019, 176, 2581-2594.	1.9	12
8	Hybrid multiplicative time-reversal imaging reveals the evolution of microseismic events: Theory and field-data tests. Geophysics, 2019, 84, KS71-KS83.	2.6	22
9	Seismic attenuation, normal moveout stretch, and low‐frequency shadows underlying bottom simulating reflector events. Geophysical Prospecting, 2018, 66, 857-871.	1.9	8
10	Backus and Wyllie Averages for Seismic Attenuation. Pure and Applied Geophysics, 2018, 175, 165-170.	1.9	4
11	A model for CO_2 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
12	Sensitivity analysis of the petrophysical properties variations on the seismic response of a CO_2 storage site. , 2017, , .		0
13	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
14	Imaging septaria geobody in the Boom Clay using a Q-compensated reverse-time migration. Geologie En Mijnbouw/Netherlands Journal of Geosciences, 2016, 95, 283-291.	0.9	4
15	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
16	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
17	Risk Assessment-Led Characterisation of the SiteChar UK North Sea Site for the Geological Storage of CO_2. Oil and Gas Science and Technology, 2015, 70, 567-586.	1.4	12
18	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

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19	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
20	On the Earthquake-Source Numerical Implementation in the Seismic Wave Equation. Journal of Earthquake Engineering, 2015, 19, 48-59.	2.5	4
21	Reply to â€œThe peak frequency of direct waves for microseismic eventsâ€•(Leo Eisner, Davide Gei,) Tj ETQq1 1 0.784314 rgBT /Over X23-X25.	2.6	3
22	Influence of capillary pressure on CO_2 storage and monitoring. , 2014, , .		2
23	Sensitivity analysis from single-well ERT simulations to image CO_2 migrations along wellbores. The Leading Edge, 2013, 32, 504-512.	0.7	8
24	The peak frequency of direct waves for microseismic events. Geophysics, 2013, 78, A45-A49.	2.6	70
25	A numerical procedure to model and monitor CO2 sequestration in aquifers. Journal of Physics: Conference Series, 2013, 410, 012085.	0.4	0
26	Seismic Numerical Modelling to Monitor CO2 Storage in the Baltic Sea Offshore Structure. , 2013, , .		2
27	The Peak Frequency of Direct Waves for Microseismic Events. , 2013, , .		2
28	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
29	Seismic modeling to monitor CO_2 geological storage: The Atzbachâ€Schwanenstadt gas field. Journal of Geophysical Research, 2012, 117, .	3.3	24
30	Feasibility of estimating vertical transverse isotropy from microseismic data recorded by surface monitoring arrays. Geophysics, 2011, 76, WC117-WC126.	2.6	20
31	Effective VTI anisotropy for consistent monitoring of microseismic events. The Leading Edge, 2011, 30, 772-776.	0.7	13
32	25. Wave Theory, Simulation, and Determination of Gas-Hydrate Content in Sediments. , 2010, , 349-372.		3
33	The velocity of energy through a dissipative medium. Geophysics, 2010, 75, T37-T47.	2.6	26
34	Qâ€anisotropy in finelyâ€layered media. Geophysical Research Letters, 2010, 37, .	4.0	29
35	Theory and numerical simulation of fluid-pressure diffusion in anisotropic porous media. Geophysics, 2009, 74, N31-N39.	2.6	18
36	Simulation of Ground Motion and Synthetic Seismograms. The 1908 Messina Earthquake.. Environmental Semeiotics, 2009, 2, 1-15.	0.5	1

#	Article	IF	Citations
37	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
38	Attenuation tomography: An application to gas‐hydrate and free‐gas detection. Geophysical Prospecting, 2007, 55, 655-669.	1.9	61
39	Fresnel reflection coefficients for GPR‐AVA analysis and detection of seawater and NAPL contaminants. Near Surface Geophysics, 2006, 4, 253-263.	1.2	17
40	Physics and Seismic Modeling for Monitoring CO2 Storage. Pure and Applied Geophysics, 2006, 163, 175-207.	1.9	145
41	Seismic methods to detect and quantify gas hydrate in sediments. , 2006, , .		0
42	4-D SEISMICS, GAS-HYDRATE DETECTION AND OVERPRESSURE PREDICTION AS A COMBINED METHODOLOGY FOR APPLICATION TO CO2 SEQUESTRATION. , 2006, , 315-323.		0
43	Estimation of gas-hydrate concentration and free-gas saturation at the Norwegian-Svalbard continental margin. Geophysical Prospecting, 2005, 53, 803-810.	1.9	46
44	Elastic velocity models for gas-hydrate-bearing sediments-a comparison. Geophysical Journal International, 2004, 159, 573-590.	2.4	174
45	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
46	3-D wave simulation in anelastic media using the Kelvin–Voigt constitutive equation. Journal of Computational Physics, 2004, 196, 282-297.	3.8	68
47	Acoustic and electromagnetic properties of soils saturated with salt water and NAPL. Journal of Applied Geophysics, 2003, 52, 177-191.	2.1	64
48	Acoustic properties of sediments saturated with gas hydrate, free gas and water. Geophysical Prospecting, 2003, 51, 141-158.	1.9	105
49	Seismic modelling study of a subglacial lake. Geophysical Prospecting, 2003, 51, 501-515.	1.9	8