

Doug A C Angus

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,200
citations

394421

19
h-index

377865

34
g-index

48
all docs

48
docs citations

48
times ranked

1211
citing authors

#	ARTICLE	IF	CITATIONS
1	Reply to comments on "Imaging the Aquistore reservoir after 36 kilotonnes of CO ₂ injection using distributed acoustic sensing" (K. Harris, D. J. White, and C. Samson, 2017, Geophysics,) Tj ETQq1 1 0.784314 rgBT /Ove the Aquistore storage site" (L. A. N. Roach, D. J. White, B. Roberts, and D. Angus, 2017, Geophysics,) Tj ETQq1 1 0.784314 rgBT /Ove	2.6	0
2	Automated seismic waveform location using Multichannel Coherency Migration (MCM) II. Application to induced and volcano-tectonic seismicity. Geophysical Journal International, 2019, 216, 1608-1632.	2.4	7
3	Automated seismic waveform location using multichannel coherency migration (MCM) I: theory. Geophysical Journal International, 2019, 216, 1842-1866.	2.4	21
4	Microseismic Full Waveform Modeling in Anisotropic Media with Moment Tensor Implementation. Surveys in Geophysics, 2018, 39, 567-611.	4.6	23
5	Initial 4D seismic results after CO ₂ injection start-up at the Aquistore storage site. Geophysics, 2017, 82, B95-B107.	2.6	22
6	Fracture parameter inversion from passive seismic shear-wave splitting: A validation study using full-waveform numerical synthetics. Tectonophysics, 2017, 712-713, 736-746.	2.2	0
7	Probabilistic analysis and comparison of stress-dependent rock physics models. Geophysical Journal International, 2017, 210, 196-209.	2.4	6
8	P. Moczo, J. Kristek & M. Galis 2014. The Finite-Difference Modelling of Earthquake Motions: Waves and Ruptures. Cambridge University Press.. Geological Magazine, 2017, 154, .	1.5	0
9	Analysis of time-lapse travel-time and amplitude changes to assess reservoir compartmentalization. Geophysical Prospecting, 2016, 64, 54-67.	1.9	5
10	The effect of CO ₂ -enriched brine injection on the mechanical properties of calcite-bearing sandstone. International Journal of Greenhouse Gas Control, 2016, 52, 84-95.	4.6	31
11	Reservoir stress path and induced seismic anisotropy: results from linking coupled fluid-flow/geomechanical simulation with seismic modelling. Petroleum Science, 2016, 13, 669-684.	4.9	10
12	Understanding a 4D geomechanical model for time-lapse seismic calibration. , 2016, , .		0
13	When do fractured media become seismically anisotropic? Some implications on quantifying fracture properties. Earth and Planetary Science Letters, 2016, 444, 150-159.	4.4	21
14	Time-lapse seismic waveform modelling and attribute analysis using hydromechanical models for a deep reservoir undergoing depletion. Geophysical Journal International, 2016, 205, 389-407.	2.4	5
15	Complementary hydro-mechanical coupled finite/discrete element and microseismic modelling to predict hydraulic fracture propagation in tight shale reservoirs. Computational Particle Mechanics, 2016, 3, 229-248.	3.0	53
16	Surface microseismic imaging in the presence of high-velocity lithologic layers. Geophysics, 2015, 80, WC117-WC131.	2.6	8
17	Feasibility of time-lapse AVO and AVOA analysis to monitor compaction-induced seismic anisotropy. Journal of Applied Geophysics, 2015, 122, 134-148.	2.1	7
18	Integrated hydro-mechanical and seismic modelling of the Valhall reservoir: A case study of predicting subsidence, AVOA and microseismicity. Geomechanics for Energy and the Environment, 2015, 2, 32-44.	2.5	37

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19	Rapid porosity and permeability changes of calcareous sandstone due to CO ₂ -enriched brine injection. <i>Geophysical Research Letters</i> , 2014, 41, 399-406.	4.0	62
20	Seismic waveforms and velocity model heterogeneity: Towards a full-waveform microseismic location algorithm. <i>Journal of Applied Geophysics</i> , 2014, 111, 228-233.	2.1	12
21	The One-Way Wave Equation: A Full-Waveform Tool for Modeling Seismic Body Wave Phenomena. <i>Surveys in Geophysics</i> , 2014, 35, 359-393.	4.6	16
22	The Impact of Geomechanics on Monitoring Techniques for CO ₂ Injection and Storage. <i>Energy Procedia</i> , 2013, 37, 4136-4144.	1.8	4
23	Investigating Stress Path Hysteresis in a CO ₂ Injection Scenario Using Coupled Geomechanical-fluid Flow Modelling. <i>Energy Procedia</i> , 2013, 37, 3833-3841.	1.8	23
24	Frequency-dependent seismic anisotropy due to fractures: Fluid flow versus scattering. <i>Geophysics</i> , 2013, 78, WA111-WA122.	2.6	26
25	Influence of a velocity model and source frequency on microseismic waveforms: some implications for microseismic locations. <i>Geophysical Prospecting</i> , 2013, 61, 334-345.	1.9	35
26	Using Microseismicity to Estimate Formation Permeability for Geological Storage of CO ₂ . <i>ISRN Geophysics</i> , 2013, 2013, 1-7.	0.7	6
27	Time-lapse Seismic Waveform Modelling - Anisotropic Ray Tracing Using Hydro-mechanical Simulation Models. , 2013, , .		2
28	Modelling converted seismic waveforms in isotropic and anisotropic 1-D gradients: discontinuous versus continuous gradient representations. <i>Studia Geophysica Et Geodaetica</i> , 2012, 56, 383-409.	0.5	5
29	Exploring Trends in Microcrack Properties of Sedimentary Rocks: An Audit of Dry and Water Saturated Sandstone Core Velocity-Stress Measurements. <i>International Journal of Geosciences</i> , 2012, 03, 822-833.	0.6	9
30	Linking microseismic event observations with geomechanical models to minimise the risks of storing CO ₂ in geological formations. <i>Earth and Planetary Science Letters</i> , 2011, 305, 143-152.	4.4	115
31	Reservoir stress path characterization and its implications for fluid-flow production simulations. <i>Petroleum Geoscience</i> , 2011, 17, 335-344.	1.5	44
32	Passive seismic monitoring of carbon dioxide storage at Weyburn. <i>The Leading Edge</i> , 2010, 29, 200-206.	0.7	60
33	Interpreting spatial variations in anisotropy: insights into the Main Ethiopian Rift from SKS waveform modelling. <i>Geophysical Journal International</i> , 2010, , .	2.4	8
34	Modelling microseismicity of a producing reservoir from coupled fluid-flow and geomechanical simulation. <i>Geophysical Prospecting</i> , 2010, 58, 901-914.	1.9	38
35	Stratigraphy of the Archean western Superior Province from P- and S-wave receiver functions: Further evidence for tectonic accretion?. <i>Physics of the Earth and Planetary Interiors</i> , 2009, 177, 206-216.	1.9	17
36	Exploring trends in microcrack properties of sedimentary rocks: An audit of dry-core velocity-stress measurements. <i>Geophysics</i> , 2009, 74, E193-E203.	2.6	41

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37	The effect of microstructure and nonlinear stress on anisotropic seismic velocities. <i>Geophysics</i> , 2008, 73, D41-D51.	2.6	74
38	Influence of fault transmissibility on seismic attributes based on coupled fluid flow and geomechanical simulation. , 2008, , .		2
39	The effects of geomechanical deformation on seismic monitoring of CO 2 sequestration. , 2008, , .		3
40	True amplitude corrections for a narrow-angle one-way elastic wave equation. <i>Geophysics</i> , 2007, 72, T19-T26.	2.6	5
41	Numerical analysis of a narrow-angle, one-way, elastic-wave equation and extension to curvilinear coordinates. <i>Geophysics</i> , 2006, 71, T137-T146.	2.6	3
42	Constraints on the interpretation of S-to-Preceiver functions. <i>Geophysical Journal International</i> , 2006, 165, 969-980.	2.4	69
43	Lithospheric structure of the Arabian and Eurasian collision zone in eastern Turkey from S-wave receiver functions. <i>Geophysical Journal International</i> , 2006, 166, 1335-1346.	2.4	195
44	Amplitude corrections for a narrow angle elastic wave equation. , 2006, , .		0
45	A one-way wave equation for modelling seismic waveform variations due to elastic heterogeneity. <i>Geophysical Journal International</i> , 2005, 162, 882-898.	2.4	9
46	A one-way wave equation for modelling variations in seismic waveforms due to elastic anisotropy. <i>Geophysical Journal International</i> , 2004, 156, 595-614.	2.4	14
47	A Fast Evaluation of the Seismic Moment Tensor for Induced Seismicity. <i>Bulletin of the Seismological Society of America</i> , 2000, 90, 1521-1527.	2.3	47