

# 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	Lithospheric structure of the Arabian and Eurasian collision zone in eastern Turkey from <i>S</i> -wave receiver functions. <i>Geophysical Journal International</i> , 2006, 166, 1335-1346.	2.4	195
2	Linking microseismic event observations with geomechanical models to minimise the risks of storing CO <sub>2</sub> in geological formations. <i>Earth and Planetary Science Letters</i> , 2011, 305, 143-152.	4.4	115
3	The effect of microstructure and nonlinear stress on anisotropic seismic velocities. <i>Geophysics</i> , 2008, 73, D41-D51.	2.6	74
4	Constraints on the interpretation of <i>S</i> -to-Preceiver functions. <i>Geophysical Journal International</i> , 2006, 165, 969-980.	2.4	69
5	Rapid porosity and permeability changes of calcareous sandstone due to CO <sub>2</sub> -enriched brine injection. <i>Geophysical Research Letters</i> , 2014, 41, 399-406.	4.0	62
6	Passive seismic monitoring of carbon dioxide storage at Weyburn. <i>The Leading Edge</i> , 2010, 29, 200-206.	0.7	60
7	Complementary hydro-mechanical coupled finite/discrete element and microseismic modelling to predict hydraulic fracture propagation in tight shale reservoirs. <i>Computational Particle Mechanics</i> , 2016, 3, 229-248.	3.0	53
8	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
9	Reservoir stress path characterization and its implications for fluid-flow production simulations. <i>Petroleum Geoscience</i> , 2011, 17, 335-344.	1.5	44
10	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
11	Modelling microseismicity of a producing reservoir from coupled fluid-flow and geomechanical simulation. <i>Geophysical Prospecting</i> , 2010, 58, 901-914.	1.9	38
12	Integrated hydro-mechanical and seismic modelling of the Valhall reservoir: A case study of predicting subsidence, AVOA and microseismicity. <i>Geomechanics for Energy and the Environment</i> , 2015, 2, 32-44.	2.5	37
13	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
14	The effect of CO <sub>2</sub> -enriched brine injection on the mechanical properties of calcite-bearing sandstone. <i>International Journal of Greenhouse Gas Control</i> , 2016, 52, 84-95.	4.6	31
15	Frequency-dependent seismic anisotropy due to fractures: Fluid flow versus scattering. <i>Geophysics</i> , 2013, 78, WA111-WA122.	2.6	26
16	Investigating Stress Path Hysteresis in a CO <sub>2</sub> Injection Scenario Using Coupled Geomechanical-fluid Flow Modelling. <i>Energy Procedia</i> , 2013, 37, 3833-3841.	1.8	23
17	Microseismic Full Waveform Modeling in Anisotropic Media with Moment Tensor Implementation. <i>Surveys in Geophysics</i> , 2018, 39, 567-611.	4.6	23
18	Initial 4D seismic results after CO <sub>2</sub> injection start-up at the Aquistore storage site. <i>Geophysics</i> , 2017, 82, B95-B107.	2.6	22

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19	When do fractured media become seismically anisotropic? Some implications on quantifying fracture properties. <i>Earth and Planetary Science Letters</i> , 2016, 444, 150-159.	4.4	21
20	Automated seismic waveform location using multichannel coherency migration (MCM)â€”I: theory. <i>Geophysical Journal International</i> , 2019, 216, 1842-1866.	2.4	21
21	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
22	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
23	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
24	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
25	Reservoir stress path and induced seismic anisotropy: results from linking coupled fluid-flow/geomechanical simulation with seismic modelling. <i>Petroleum Science</i> , 2016, 13, 669-684.	4.9	10
26	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
27	Exploring Trends in Microcrack Properties of Sedimentary Rocks: An Audit of Dry and Water Saturated Sandstone Core Velocityâ€”Stress Measurements. <i>International Journal of Geosciences</i> , 2012, 03, 822-833.	0.6	9
28	Interpreting spatial variations in anisotropy: insights into the Main Ethiopian Rift from SKS waveform modelling. <i>Geophysical Journal International</i> , 2010, , .	2.4	8
29	Surface microseismic imaging in the presence of high-velocity lithologic layers. <i>Geophysics</i> , 2015, 80, WC117-WC131.	2.6	8
30	Feasibility of time-lapse AVO and AVOA analysis to monitor compaction-induced seismic anisotropy. <i>Journal of Applied Geophysics</i> , 2015, 122, 134-148.	2.1	7
31	Automated seismic waveform location using Multichannel Coherency Migration (MCM)â€”II. Application to induced and volcano-tectonic seismicity. <i>Geophysical Journal International</i> , 2019, 216, 1608-1632.	2.4	7
32	Using Microseismicity to Estimate Formation Permeability for Geological Storage of CO <sub>2</sub> . <i>ISRN Geophysics</i> , 2013, 2013, 1-7.	0.7	6
33	Probabilistic analysis and comparison of stress-dependent rock physics models. <i>Geophysical Journal International</i> , 2017, 210, 196-209.	2.4	6
34	True amplitude corrections for a narrow-angle one-way elastic wave equation. <i>Geophysics</i> , 2007, 72, T19-T26.	2.6	5
35	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
36	Analysis of time-lapse travel-time and amplitude changes to assess reservoir compartmentalization. <i>Geophysical Prospecting</i> , 2016, 64, 54-67.	1.9	5

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37	Time-lapse seismic waveform modelling and attribute analysis using hydromechanical models for a deep reservoir undergoing depletion. <i>Geophysical Journal International</i> , 2016, 205, 389-407.	2.4	5
38	The Impact of Geomechanics on Monitoring Techniques for CO <sub>2</sub> Injection and Storage. <i>Energy Procedia</i> , 2013, 37, 4136-4144.	1.8	4
39	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
40	The effects of geomechanical deformation on seismic monitoring of CO <sub>2</sub> sequestration. , 2008, , .		3
41	Influence of fault transmissibility on seismic attributes based on coupled fluid flow and geomechanical simulation. , 2008, , .		2
42	Time-lapse Seismic Waveform Modelling - Anisotropic Ray Tracing Using Hydro-mechanical Simulation Models. , 2013, , .		2
43	Understanding a 4D geomechanical model for time-lapse seismic calibration. , 2016, , .		0
44	Fracture parameter inversion from passive seismic shear-wave splitting: A validation study using full-waveform numerical synthetics. <i>Tectonophysics</i> , 2017, 712-713, 736-746.	2.2	0
45	P. Moczo, J. Kristek & M. Galis 2014. <i>The Finite-Difference Modelling of Earthquake Motions: Waves and Ruptures</i> . Cambridge University Press. <i>Geological Magazine</i> , 2017, 154, .	1.5	0
46	Amplitude corrections for a narrow-angle elastic wave equation. , 2006, , .		0
47	Reply to comments on "Seismic imaging the Aquistore reservoir after 36 kilotonnes of CO <sub>2</sub> injection using distributed acoustic sensing" (K. Harris, D. J. White, and C. Samson, 2017, <i>Geophysics</i> ,) <i>Tj ETQq1 1 0.784314 rgBT /Over</i> the Aquistore storage site (L. A. N. Roach, D. J. White, B. Roberts, and D. Angus, 2017, <i>Geophysics</i> ,) <i>Tj ETQq1 1 0.784314 rgBT /Over</i>	2.6	0