

James P Verdon

List of Publications by Year in descending order

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Version: 2024-02-01

54
papers

1,800
citations

236833

25
h-index

276775

41
g-index

56
all docs

56
docs citations

56
times ranked

1559
citing authors

#	ARTICLE	IF	CITATIONS
1	3D seismic interpretation and fault slip potential analysis from hydraulic fracturing in the Bowland Shale, UK. <i>Petroleum Geoscience</i> , 2022, 28, .	0.9	6
2	Coupled Poroelastic Modeling of Hydraulic Fracturing-Induced Seismicity: Implications for Understanding the Post Shut-in M _L 2.9 Earthquake at the Preston New Road, UK. <i>Journal of Geophysical Research: Solid Earth</i> , 2022, 127, .	1.4	5
3	Seismic Anisotropy Reveals Stress Changes around a Fault as It Is Activated by Hydraulic Fracturing. <i>Seismological Research Letters</i> , 2022, 93, 1737-1752.	0.8	4
4	High-Resolution Imaging of the M _L 2.9 August 2019 Earthquake in Lancashire, United Kingdom, Induced by Hydraulic Fracturing during Preston New Road PNR-2 Operations. <i>Seismological Research Letters</i> , 2021, 92, 151-169.	0.8	23
5	Green, yellow, red, or out of the blue? An assessment of Traffic Light Schemes to mitigate the impact of hydraulic fracturing-induced seismicity. <i>Journal of Seismology</i> , 2021, 25, 301-326.	0.6	38
6	Large-Scale Fracture Systems Are Permeable Pathways for Fault Activation During Hydraulic Fracturing. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2020JB020311.	1.4	40
7	Field measurements of fracture characteristics on a wave-cut platform. <i>Interpretation</i> , 2021, 9, T453-T462.	0.5	0
8	Fault Triggering Mechanisms for Hydraulic Fracturing-Induced Seismicity From the Preston New Road, UK Case Study. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	10
9	Evaluating rock mass disturbance within open-pit excavations using seismic methods: A case study from the Hinkley Point C nuclear power station. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2021, 13, 500-512.	3.7	15
10	Comment on "Activation Rate of Seismicity for Hydraulic Fracture Wells in the Western Canadian Sedimentary Basin" by Hadi Ghofrani and Gail M. Atkinson. <i>Bulletin of the Seismological Society of America</i> , 2021, 111, 3459-3474.	1.1	7
11	Application of machine learning to microseismic event detection in distributed acoustic sensing data. <i>Geophysics</i> , 2020, 85, KS149-KS160.	1.4	53
12	A Shallow Earthquake Swarm Close to Hydrocarbon Activities: Discriminating between Natural and Induced Causes for the 2018-2019 Surrey, United Kingdom, Earthquake Sequence. <i>Seismological Research Letters</i> , 2019, 90, 2095-2110.	0.8	15
13	Real-Time Imaging, Forecasting, and Management of Human-Induced Seismicity at Preston New Road, Lancashire, England. <i>Seismological Research Letters</i> , 2019, .	0.8	23
14	How big is a small earthquake? Challenges in determining microseismic magnitudes. <i>First Break</i> , 2019, 37, 51-56.	0.2	19
15	Seismicity induced by longwall coal mining at the Thoresby Colliery, Nottinghamshire, U.K.. <i>Geophysical Journal International</i> , 2018, 212, 942-954.	1.0	12
16	Examining the Capability of Statistical Models to Mitigate Induced Seismicity during Hydraulic Fracturing of Shale Gas Reservoirs. <i>Bulletin of the Seismological Society of America</i> , 2018, 108, 690-701.	1.1	25
17	Results of downhole microseismic monitoring at a pilot hydraulic fracturing site in Poland " Part 2: S-wave splitting analysis. <i>Interpretation</i> , 2018, 6, SH49-SH58.	0.5	9
18	Local Magnitude Discrepancies for Near-Event Receivers: Implications for the U.K. Traffic-Light Scheme. <i>Bulletin of the Seismological Society of America</i> , 2017, 107, 532-541.	1.1	26

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19	Using beamforming to maximise the detection capability of small, sparse seismometer arrays deployed to monitor oil field activities. <i>Geophysical Prospecting</i> , 2017, 65, 1582-1596.	1.0	15
20	Using microseismic data recorded at the Weyburn CCS-EOR site to assess the likelihood of induced seismic activity. <i>International Journal of Greenhouse Gas Control</i> , 2016, 54, 421-428.	2.3	15
21	Carbon capture and storage, geomechanics and induced seismic activity. <i>Journal of Rock Mechanics and Geotechnical Engineering</i> , 2016, 8, 928-935.	3.7	29
22	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.	2.4	10
23	Subsurface fluid injection and induced seismicity in southeast Saskatchewan. <i>International Journal of Greenhouse Gas Control</i> , 2016, 54, 429-440.	2.3	19
24	Water, oceanic fracture zones and the lubrication of subducting plate boundaries—insights from seismicity. <i>Geophysical Journal International</i> , 2016, 204, 1405-1420.	1.0	42
25	UK public perceptions of shale gas hydraulic fracturing: The role of audience, message and contextual factors on risk perceptions and policy support. <i>Applied Energy</i> , 2015, 160, 419-430.	5.1	102
26	The microseismic response at the In Salah Carbon Capture and Storage (CCS) site. <i>International Journal of Greenhouse Gas Control</i> , 2015, 32, 159-171.	2.3	82
27	Simulation of seismic events induced by CO ₂ injection at In Salah, Algeria. <i>Earth and Planetary Science Letters</i> , 2015, 426, 118-129.	1.8	43
28	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.	1.2	37
29	Seismic characterization of fracture compliance in the field using <i>P</i> - and <i>S</i> -wave sources. <i>Geophysical Journal International</i> , 2015, 203, 1726-1737.	1.0	10
30	Assessing the Effect of Velocity Model Accuracy on Microseismic Interpretation at the In Salah Carbon Capture and Storage Site. <i>Energy Procedia</i> , 2014, 63, 4385-4393.	1.8	12
31	Significance for secure CO ₂ storage of earthquakes induced by fluid injection. <i>Environmental Research Letters</i> , 2014, 9, 064022.	2.2	65
32	Seismic waveforms and velocity model heterogeneity: Towards a full-waveform microseismic location algorithm. <i>Journal of Applied Geophysics</i> , 2014, 111, 228-233.	0.9	12
33	Monitoring increases in fracture connectivity during hydraulic stimulations from temporal variations in shear wave splitting polarization. <i>Geophysical Journal International</i> , 2013, 195, 1120-1131.	1.0	30
34	Comparison of geomechanical deformation induced by megatonne-scale CO ₂ storage at Sleipner, Weyburn, and In Salah. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, E2762-71.	3.3	173
35	Influence of a velocity model and source frequency on microseismic waveforms: some implications for microseismic locations. <i>Geophysical Prospecting</i> , 2013, 61, 334-345.	1.0	35
36	Measurement of the normal/tangential fracture compliance ratio (<i>Z_N</i> / <i>Z_T</i>) during hydraulic fracture stimulation using <i>S</i> -wave splitting data. <i>Geophysical Prospecting</i> , 2013, 61, 461-475.	1.0	69

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37	Monitoring carbon dioxide storage using passive seismic techniques. Proceedings of Institution of Civil Engineers: Energy, 2012, 165, 85-96.	0.5	5
38	Forward Modelling of Seismic Properties. , 2012, , 141-151.		0
39	A Comparison of Microseismic Monitoring of Fracture Stimulation Due to Water Versus CO_2 Injection. , 2012, , 55-81.		1
40	Linking microseismic event observations with geomechanical models to minimise the risks of storing CO2 in geological formations. Earth and Planetary Science Letters, 2011, 305, 143-152.	1.8	115
41	Inferring rock fracture evolution during reservoir stimulation from seismic anisotropy. Geophysics, 2011, 76, WC157-WC166.	1.4	21
42	Microseismic monitoring and geomechanical modeling of CO2 storage in subsurface reservoirs. Geophysics, 2011, 76, Z102-Z103.	1.4	12
43	In situ monitoring of rock fracturing using shear wave splitting analysis: an example from a mining setting. Geophysical Journal International, 2011, 187, 848-860.	1.0	23
44	Detection of multiple fracture sets using observations of shear wave splitting in microseismic data. Geophysical Prospecting, 2011, 59, 593-608.	1.0	42
45	Reservoir stress path characterization and its implications for fluid-flow production simulations. Petroleum Geoscience, 2011, 17, 335-344.	0.9	44
46	A comparison of passive seismic monitoring of fracture stimulation from water and CO2 injection. Geophysics, 2010, 75, MA1-MA7.	1.4	45
47	Passive seismic monitoring of carbon dioxide storage at Weyburn. The Leading Edge, 2010, 29, 200-206.	0.4	60
48	A strategy for automated analysis of passive microseismic data to image seismic anisotropy and fracture characteristics. Geophysical Prospecting, 2010, 58, 755-773.	1.0	93
49	Imaging fractures and sedimentary fabrics using shear wave splitting measurements made on passive seismic data. Geophysical Journal International, 2009, 179, 1245-1254.	1.0	54
50	Exploring trends in microcrack properties of sedimentary rocks: An audit of dry-core velocity-stress measurements. Geophysics, 2009, 74, E193-E203.	1.4	41
51	The effect of microstructure and nonlinear stress on anisotropic seismic velocities. Geophysics, 2008, 73, D41-D51.	1.4	74
52	The effects of geomechanical deformation on seismic monitoring of CO2 sequestration. , 2008, , .		3
53	Gravity-driven reacting flows in a confined porous aquifer. Journal of Fluid Mechanics, 2007, 588, 29-41.	1.4	21
54	Microseismic monitoring using a fibre-optic Distributed Acoustic Sensor (DAS) array. Geophysics, 0, , 1-48.	1.4	16