

# David Dempsey

## List of Publications by Year in descending order

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34  
papers

831  
citations

516561

16  
h-index

501076

28  
g-index

37  
all docs

37  
docs citations

37  
times ranked

1026  
citing authors

#	ARTICLE	IF	CITATIONS
1	Hydraulic fracturing fluid migration in the subsurface: A review and expanded modeling results. <i>Water Resources Research</i> , 2015, 51, 7159-7188.	1.7	121
2	Automatic precursor recognition and real-time forecasting of sudden explosive volcanic eruptions at Whakaari, New Zealand. <i>Nature Communications</i> , 2020, 11, 3562.	5.8	68
3	Physics-based forecasting of induced seismicity at Groningen gas field, the Netherlands. <i>Geophysical Research Letters</i> , 2017, 44, 7773-7782.	1.5	64
4	Observation and modeling of platelet ice fabric in McMurdo Sound, Antarctica. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	63
5	Numerical modeling of injection, stress and permeability enhancement during shear stimulation at the Desert Peak Enhanced Geothermal System. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2015, 78, 190-206.	2.6	43
6	A three-dimensional coupled thermo-hydro-mechanical numerical model with partially bridging multi-stage contact fractures in horizontal-well enhanced geothermal system. <i>International Journal of Rock Mechanics and Minings Sciences</i> , 2021, 143, 104787.	2.6	39
7	Passive injection: A strategy for mitigating reservoir pressurization, induced seismicity and brine migration in geologic CO <sub>2</sub> storage. <i>International Journal of Greenhouse Gas Control</i> , 2014, 28, 96-113.	2.3	38
8	Evolution of supercooling under coastal Antarctic sea ice during winter. <i>Antarctic Science</i> , 2011, 23, 399-409.	0.5	36
9	Insights into interconnections between the shallow and deep systems from a natural CO <sub>2</sub> reservoir near Springerville, Arizona. <i>International Journal of Greenhouse Gas Control</i> , 2014, 25, 162-172.	2.3	34
10	Collective properties of injection-induced earthquake sequences: 2. Spatiotemporal evolution and magnitude frequency distributions. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 3638-3665.	1.4	29
11	Modeling caprock bending stresses and their potential for induced seismicity during CO <sub>2</sub> injection. <i>International Journal of Greenhouse Gas Control</i> , 2014, 22, 223-236.	2.3	26
12	Response of Induced Seismicity to Injection Rate Reduction: Models of Delay, Decay, Quiescence, Recovery, and Oklahoma. <i>Water Resources Research</i> , 2019, 55, 656-681.	1.7	26
13	Effective detection of CO <sub>2</sub> leakage: a comparison of groundwater sampling and pressure monitoring. <i>Energy Procedia</i> , 2014, 63, 4163-4171.	1.8	24
14	Collective properties of injection-induced earthquake sequences: 1. Model description and directivity bias. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 3609-3637.	1.4	23
15	Microseismicity Cloud Can Be Substantially Larger Than the Associated Stimulated Fracture Volume: The Case of the Paralana Enhanced Geothermal System. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 6845-6870.	1.4	20
16	Techno-Economic feasibility of enhanced geothermal systems (EGS) with partially bridging Multi-Stage fractures for district heating applications. <i>Energy Conversion and Management</i> , 2022, 257, 115405.	4.4	19
17	Seismic precursors to the Whakaari 2019 phreatic eruption are transferable to other eruptions and volcanoes. <i>Nature Communications</i> , 2022, 13, 2002.	5.8	18
18	Simulation of the crystal growth of platelet sea ice with diffusive heat and mass transfer. <i>Annals of Glaciology</i> , 2015, 56, 127-136.	2.8	16

#	ARTICLE	IF	CITATIONS
19	Energetics of normal earthquakes on dip-slip faults. <i>Geology</i> , 2012, 40, 279-282.	2.0	15
20	Delineation of catchment zones of geothermal systems in large-scale rifted settings. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	13
21	Geometric properties of platelet ice crystals. <i>Cold Regions Science and Technology</i> , 2012, 78, 1-13.	1.6	13
22	Modeling the effects of silica deposition and fault rupture on natural geothermal systems. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	12
23	Bayesian magnetotelluric inversion using methylene blue structural priors for imaging shallow conductors in geothermal fields. <i>Geophysics</i> , 2021, 86, E171-E183.	1.4	11
24	Reducing uncertainty associated with CO2 injection and brine production in heterogeneous formations. <i>International Journal of Greenhouse Gas Control</i> , 2015, 37, 24-37.	2.3	9
25	Heat Transfer Through the Wairakei-Tauhara Geothermal System Quantified by Multi-Channel Data Modeling. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092056.	1.5	9
26	The role of frictional plasticity in the evolution of normal fault systems. <i>Journal of Structural Geology</i> , 2012, 39, 122-137.	1.0	8
27	Hydrological effects of dip-slip fault rupture on a hydrothermal plume. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 195-211.	1.4	8
28	Integrity of Pre-existing Wellbores in Geological Sequestration of CO2 – Assessment Using a Coupled Geomechanics-fluid Flow Model. <i>Energy Procedia</i> , 2014, 63, 5737-5748.	1.8	6
29	Ground motion simulation of hypothetical earthquakes in the upper North Island of New Zealand. <i>New Zealand Journal of Geology, and Geophysics</i> , 2021, 64, 570-588.	1.0	5
30	Two-dimensional numerical modelling of strategies to avoid thermal stress induced flow channeling in fractured geothermal reservoirs. <i>Geothermics</i> , 2021, 90, 101978.	1.5	5
31	Hydrothermal Cooling as a Requirement for Short Storage of Silicic Magmas. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC009794.	1.0	4
32	Pressure Monitoring to Detect Fault Rupture Due to CO2 Injection. <i>Energy Procedia</i> , 2017, 114, 3969-3979.	1.8	2
33	Effect of Permeability Heterogeneity on Area of Review. <i>Energy Procedia</i> , 2017, 114, 7459-7465.	1.8	2
34	Data Mining on Extremely Long Time-Series. , 2021, , .		2