Ryan M Pollyea

List of Publications by Year in descending order

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RVAN M POLIVEA

#	Article	IF	CITATIONS
1	The Role of Chemistry in Fracture Pattern Development and Opportunities to Advance Interpretations of Geological Materials. Reviews of Geophysics, 2019, 57, 1065-1111.	23.0	182
2	Estimating surface roughness of terrestrial laser scan data using orthogonal distance regression. Geology, 2011, 39, 623-626.	4.4	102
3	TOUGH3: A new efficient version of the TOUGH suite of multiphase flow and transport simulators. Computers and Geosciences, 2017, 108, 2-7.	4.2	60
4	Geologic CO2 sequestration and permeability uncertainty in a highly heterogeneous reservoir. International Journal of Greenhouse Gas Control, 2019, 83, 128-139.	4.6	38
5	Simulation of CO2 mineral trapping and permeability alteration in fractured basalt: Implications for geologic carbon sequestration in mafic reservoirs. International Journal of Greenhouse Gas Control, 2021, 109, 103383.	4.6	36
6	High density oilfield wastewater disposal causes deeper, stronger, and more persistent earthquakes. Nature Communications, 2019, 10, 3077.	12.8	31
7	Spatial and temporal constraints on regional-scale groundwater flow in the Pampa del Tamarugal Basin, Atacama Desert, Chile. Hydrogeology Journal, 2016, 24, 1921-1937.	2.1	30
8	Geospatial analysis of Oklahoma (USA) earthquakes (2011–2016): Quantifying the limits of regional-scale earthquake mitigation measures. Geology, 2018, 46, 215-218.	4.4	22
9	Rate equations for modeling carbon dioxide sequestration in basalt. Applied Geochemistry, 2017, 81, 53-62.	3.0	21
10	A multi-dimensional parametric study of variability in multi-phase flow dynamics during geologic CO2 sequestration accelerated with machine learning. Applied Energy, 2021, 287, 116580.	10.1	21
11	Influence of relative permeability on injection pressure and plume configuration during CO2 injections in a mafic reservoir. International Journal of Greenhouse Gas Control, 2016, 46, 7-17.	4.6	19
12	Directional semivariogram analysis to identify and rank controls on the spatial variability of fracture networks. Journal of Structural Geology, 2018, 108, 34-51.	2.3	19
13	Implications of spatial reservoir uncertainty for CO2 sequestration in the east Snake River Plain, Idaho (USA). Hydrogeology Journal, 2012, 20, 689-699.	2.1	18
14	Physical constraints on geologic CO2 sequestration in low-volume basalt formations. Bulletin of the Geological Society of America, 2014, 126, 344-351.	3.3	17
15	A parametric analysis of capillary pressure effects during geologic carbon sequestration in a sandstone reservoir. , 2018, 8, 1039-1052.		15
16	Experimental evaluation of terrestrial LiDAR-based surface roughness estimates. , 2012, 8, 222-228.		14
17	A probabilistic assessment of geomechanical reservoir integrity during CO ₂ sequestration in flood basalt formations. , 2019, 9, 979-998.		13
18	Using Heat as a Predictor of CO ₂ Breakthrough in Highly Heterogeneous Reservoirs. Geophysical Research Letters, 2019, 46, 5879-5888.	4.0	12

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19	Topographically driven fluid flow within orogenic wedges: Effects of taper angle and depth-dependent permeability. , 2015, 11, 1427-1437.		10
20	Threeâ€Phase CO ₂ Flow in a Basalt Fracture Network. Water Resources Research, 2017, 53, 8980-8998.	4.2	10
21	A new perspective on the hydraulics of oilfield wastewater disposal: how PTX conditions affect fluid pressure transients that cause earthquakes. Energy and Environmental Science, 2020, 13, 3014-3031.	30.8	8
22	Permeability correlation structure of the Columbia River Plateau and implications for fluid system architecture in continental large igneous provinces. Geology, 2018, 46, 715-718.	4.4	7
23	Advective Heat Transport and the Salt Chimney Effect: A Numerical Analysis. Geofluids, 2018, 2018, 1-18.	0.7	5
24	Explications des pressions de fluides transitoires à longue portée engendrées par le stockage d'eaux usées de champs pétrolifÃïres à l'aide du principe de superposition hydrogéologique. Hydrogeology Journal, 2020, 28, 795-803.	2.1	4
25	Making Sense of Scientific Simulation Ensembles With Semantic Interaction. Computer Graphics Forum, 2020, 39, 325-343.	3.0	4
26	A field sampling strategy for semivariogram inference of fractures in rock outcrops. Stochastic Environmental Research and Risk Assessment, 2013, 27, 1735-1740.	4.0	2
27	A PARAMETRIC ANALYSIS OF CAPILLARY PRESSURE EFFECTS DURING THE CARBON SEQUESTRATION INJECTION PROCESS IN A SANDSTONE RESERVOIR. , 2017, , .		0