Stephen A Miller

List of Publications by Year
in descending order

21 papers	1,229 citations	933447 10 h-index	752698 20 g-index
27 all docs	27 docs citations	27 times ranked	1336 citing authors

#	Article	IF	Citations
1	Spatioâ€Temporal Complexity of Aftershocks in the Apennines Controlled by Permeability Dynamics and Decarbonization. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	12
2	A thermo-hydro-chemical model with porosity reduction and enthalpy production: Application to silica precipitation in geothermal reservoirs. Energy Reports, 2021, 7, 6260-6272.	5.1	7
3	Multi-GPU based 3D numerical modeling of fluid migration and clay dehydration influence on Lusi hydrothermal activity (Java, Indonesia). Journal of Volcanology and Geothermal Research, 2021, 419, 107377.	2.1	1
4	Tectonic insight and 3-D modelling of the Lusi (Java, Indonesia) mud edifice through gravity analyses. Geophysical Journal International, 2021, 225, 984-997.	2.4	6
5	Injectionâ€Induced Earthquakes Near Milan, Kansas, Controlled by Karstic Networks. Geophysical Research Letters, 2020, 47, e2020GL088326.	4.0	5
6	Aftershocks are fluid-driven and decay rates controlled by permeability dynamics. Nature Communications, 2020, 11, 5787.	12.8	46
7	GEYSER: 3D thermo-hydrodynamic reactive transport numerical simulator including porosity and permeability evolution using GPU clusters. Computational Geosciences, 2019, 23, 1317-1330.	2.4	5
8	More than ten years of Lusi: A review of facts, coincidences, and past and future studies. Marine and Petroleum Geology, 2018, 90, 10-25.	3.3	20
9	Numerical modeling of the Lusi hydrothermal system: Initial results and future challenges. Marine and Petroleum Geology, 2018, 90, 191-200.	3.3	4
10	Deep hydrothermal activity driving the Lusi mud eruption. Earth and Planetary Science Letters, 2018, 497, 42-49.	4.4	12
11	Numerical simulations (2D) on the influence of pre-existing local structures and seismic source characteristics in earthquake-volcano interactions. Journal of Volcanology and Geothermal Research, 2017, 343, 192-210.	2.1	6
12	On the Role of Thermal Stresses during Hydraulic Stimulation of Geothermal Reservoirs. Geofluids, 2017, 2017, 1-15.	0.7	2
13	Systematic study of the effects of mass and time scaling techniques applied in numerical rock mechanics simulations. Tectonophysics, 2016, 684, 4-11.	2.2	12
14	Modeling porous rock fracturing induced by fluid injection. International Journal of Rock Mechanics and Minings Sciences, 2015, 77, 133-141.	5.8	10
15	A Full GPU Simulation of Evolving Fracture Networks in a Heterogeneous Poro-Elasto-Plastic Medium with Effective-Stress-Dependent Permeability. Lecture Notes in Earth System Sciences, 2013, , 305-319.	0.6	34
16	The Role of Fluids in Tectonic and Earthquake Processes. Advances in Geophysics, 2013, 54, 1-46.	2.8	52
17	Episodic Slip and Waves of Fluid-Filled Porosity. , 2013, , .		4
18	High-pressure fluid at hypocentral depths in the L'Aquila region inferred from earthquake focal mechanisms. Geology, 2010, 38, 995-998.	4.4	140

#	Article	IF	Citations
19	Modelling eruption cycles and decay of mud volcanoes. Marine and Petroleum Geology, 2009, 26, 1879-1887.	3.3	33
20	Aftershocks driven by a high-pressure CO_2 source at depth. Nature, 2004, 427, 724-727.	27.8	714
21	Permeability as a toggle switch in fluid-controlled crustal processes. Earth and Planetary Science Letters, 2000, 183, 133-146.	4.4	101