Jenny Suckale

List of Publications by Year
in descending order

46 papers	1,025 citations	430874 18 h-index	454955 30 g-index
53 all docs	53 docs citations	53 times ranked	1334 citing authors

#	Article	IF	Citations
1	Linking social, ecological, and physical science to advance natural and natureâ€based protection for coastal communities. Annals of the New York Academy of Sciences, 2017, 1399, 5-26.	3.8	108
2	Deformation-induced melting in the margins of the West Antarctic ice streams. Journal of Geophysical Research F: Earth Surface, 2014, 119, 1004-1025.	2.8	73
3	High-resolution seismic imaging of the western Hellenic subduction zone using teleseismic scattered waves. Geophysical Journal International, 2009, 178, 775-791.	2.4	69
4	Physicsâ€based forecasting of induced seismicity at Groningen gas field, the Netherlands. Geophysical Research Letters, 2017, 44, 7773-7782.	4.0	64
5	When floods hit the road: Resilience to flood-related traffic disruption in the San Francisco Bay Area and beyond. Science Advances, 2020, 6, eaba2423.	10.3	56
6	Subglacial hydrology and ice stream margin locations. Journal of Geophysical Research F: Earth Surface, 2015, 120, 1352-1368.	2.8	54
7	Moderate-to-large seismicity induced by hydrocarbon production. The Leading Edge, 2010, 29, 310-319.	0.7	50
8	Crystals stirred up: 2. Numerical insights into the formation of the earliest crust on the Moon. Journal of Geophysical Research, 2012, 117, .	3.3	49
9	Flowâ€toâ€fracture transition in a volcanic mush plug may govern normal eruptions at Stromboli. Geophysical Research Letters, 2016, 43, 12,071.	4.0	45
10	Water Partitioning in Planetary Embryos and Protoplanets with Magma Oceans. Space Science Reviews, 2018, 214, 1.	8.1	43
11	It takes three to tango: 2. Bubble dynamics in basaltic volcanoes and ramifications for modeling normal Strombolian activity. Journal of Geophysical Research, 2010, 115, .	3.3	30
12	A continuum model of multi-phase reactive transport in igneous systems. Geophysical Journal International, 2019, 219, 185-222.	2.4	30
13	Collective properties of injectionâ€induced earthquake sequences: 2. Spatiotemporal evolution and magnitude frequency distributions. Journal of Geophysical Research: Solid Earth, 2016, 121, 3638-3665.	3.4	29
14	It takes three to tango: 1. Simulating buoyancyâ€driven flow in the presence of large viscosity contrasts. Journal of Geophysical Research, 2010, 115, .	3.3	27
15	Crystals stirred up: 1. Direct numerical simulations of crystal settling in nondilute magmatic suspensions. Journal of Geophysical Research, 2012, 117, .	3.3	27
16	Rapid ice flow rearrangement induced by subglacial drainage in West Antarctica. Geophysical Research Letters, 2016, 43, 11,697.	4.0	24
17	Collective properties of injectionâ€induced earthquake sequences: 1. Model description and directivity bias. Journal of Geophysical Research: Solid Earth, 2016, 121, 3609-3637.	3.4	23
18	Bistability of buoyancy-driven exchange flows in vertical tubes. Journal of Fluid Mechanics, 2018, 850, 525-550.	3.4	20

#	Article	IF	Citations
19	Direct numerical simulations of gasâ€“solidâ€“liquid interactions in dilute fluids. International Journal of Multiphase Flow, 2017, 96, 34-47.	3.4	18
20	A residual-based shock capturing scheme for the continuous/discontinuous spectral element solution of the 2D shallow water equations. Advances in Water Resources, 2018, 114, 45-63.	3.8	15
21	The protective benefits of tsunami mitigation parks and ramifications for their strategic design. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 10740-10745.	7.1	15
22	Sediment behavior controls equilibrium width of subglacial channels. Journal of Glaciology, 2017, 63, 1034-1048.	2.2	13
23	Modelling thermomechanical ice deformation using an implicit pseudo-transient method (FastICE v1.0) based on graphical processing units (GPUs). Geoscientific Model Development, 2020, 13, 955-976.	3.6	13
24	Water pressure fluctuations control variability in sediment flux and slip dynamics beneath glaciers and ice streams. Communications Earth & Environment, 2020, 1, .	6.8	12
25	Probabilistic Seismic Hazard Model for Vanuatu. Bulletin of the Seismological Society of America, 2009, 99, 2108-2126.	2.3	10
26	Direct numerical simulations of viscous suspensions with variably shaped crystals. Journal of Computational Physics, 2020, 401, 109021.	3.8	10
27	Crystal Fractionation by Crystalâ€Driven Convection. Geophysical Research Letters, 2020, 47, e2019GL086784.	4.0	10
28	Determining conditions that allow a shear margin to coincide with a RÃ¶thlisberger channel. Journal of Geophysical Research F: Earth Surface, 2016, 121, 1273-1294.	2.8	9
29	Crystal aggregates record the pre-eruptive flow field in the volcanic conduit at KÄ«lauea, Hawaii. Science Advances, 2020, 6, .	10.3	8
30	Spatial heterogeneity in subglacial drainage driven byÂtillÂerosion. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2019, 475, 20190259.	2.1	7
31	Flowâ€toâ€Sliding Transition in Crystalâ€Bearing Magma. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018549.	3.4	7
32	Reply to the comment by Mike R. James et al. on â€œIt takes three to tango: 2. Bubble dynamics in basaltic volcanoes and ramifications for modeling normal Strombolian activityâ€. Journal of Geophysical Research, 2011, 116, .	3.3	6
33	Traffic accidents and delays present contrasting pictures of traffic resilience to coastal flooding in the San Francisco Bay Area, USA. Urban Climate, 2021, 37, 100851.	5.7	6
34	Shear Variation at the Iceâ€Till Interface Changes the Spatial Distribution of Till Porosity and Meltwater Drainage. Journal of Geophysical Research F: Earth Surface, 2021, 126, .	2.8	6
35	Adding a community partner to service learning may elevate learning but not necessarily service. International Journal of Disaster Risk Reduction, 2018, 28, 80-87.	3.9	5
36	Slug Stability in Flaring Geometries and Ramifications for Lava Lake Degassing. Journal of Geophysical Research: Solid Earth, 2018, 123, 10,431.	3.4	5

#	Article	IF	Citations
37	Rising Seas, Rising Inequity? Communities at Risk in the San Francisco Bay Area and Implications for Adaptation Policy. Earth's Future, 2021, 9, e2020EF001963.	6.3	5
38	Taylor drop in a closed vertical pipe. Journal of Fluid Mechanics, 2020, 902, .	3.4	4
39	The Coupled Dynamics of Meltwater Percolation and Granular Deformation in the Sediment Layer Underlying Parts of the Big Ice Sheets. , 2017, , .		3
40	Periodic outgassing as a result of unsteady convection in Ray lava lake, Mount Erebus, Antarctica. Earth and Planetary Science Letters, 2020, 530, 115903.	4.4	3
41	Interactions Between Gas Slug Ascent and Exchange Flow in the Conduit of Persistently Active Volcanoes. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB022120.	3.4	3
42	Integrating urban traffic models with coastal flood maps to quantify the resilience of traffic systems to episodic coastal flooding. MethodsX, 2021, 8, 101483.	1.6	3
43	Magma Mixing During Conduit Flow is Reflected in Meltâ€Inclusion Data From Persistently Degassing Volcanoes. Journal of Geophysical Research: Solid Earth, 2022, 127, .	3.4	2
44	Science Translation During the COVID-19 Pandemic: An Academic-Public Health Partnership to Assess Capacity Limits in California. American Journal of Public Health, 2022, 112, 308-315.	2.7	2
45	Biased witnesses: Crystal thermal records may give conflicting accounts of magma cooling. Journal of Geophysical Research: Solid Earth, 0, , .	3.4	1
46	Disrupt the upper or the lower conduit? The dual role of gas exsolution in the conduits of persistently active volcanoes. Journal of Fluid Mechanics, 2022, 942, .	3.4	0