

Jonathan Fink

List of Publications by Year in descending order

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47
papers

3,150
citations

136885

32
h-index

243529

44
g-index

51
all docs

51
docs citations

51
times ranked

1875
citing authors

#	ARTICLE	IF	CITATIONS
1	Toward Inherently Secure and Resilient Societies. <i>Science</i> , 2005, 309, 1034-1036.	6.0	309
2	Quantification of submarine lava-flow morphology through analog experiments. <i>Geology</i> , 1995, 23, 73.	2.0	208
3	Radial spreading of viscous-gravity currents with solidifying crust. <i>Journal of Fluid Mechanics</i> , 1990, 221, 485-509.	1.4	182
4	Structure and emplacement of a rhyolitic obsidian flow: Little Glass Mountain, Medicine Lake Highland, northern California. <i>Bulletin of the Geological Society of America</i> , 1983, 94, 362.	1.6	172
5	Surface folding and viscosity of rhyolite flows. <i>Geology</i> , 1980, 8, 250.	2.0	151
6	Effects of surface cooling on the spreading of lava flows and domes. <i>Journal of Fluid Mechanics</i> , 1993, 252, 667-702.	1.4	138
7	Ropy pahoehoe: Surface folding of a viscous fluid. <i>Journal of Volcanology and Geothermal Research</i> , 1978, 4, 151-170.	0.8	132
8	Internal textures of rhyolite flows as revealed by research drilling. <i>Geology</i> , 1987, 15, 549.	2.0	123
9	A laboratory investigation into the effects of slope on lava flow morphology. <i>Journal of Volcanology and Geothermal Research</i> , 2000, 96, 145-159.	0.8	114
10	A laboratory analog study of the surface morphology of lava flows extruded from point and line sources. <i>Journal of Volcanology and Geothermal Research</i> , 1992, 54, 19-32.	0.8	108
11	Crease structures: Indicators of emplacement rates and surface stress regimes of lava flows. <i>Bulletin of the Geological Society of America</i> , 1992, 104, 615.	1.6	89
12	Rapid emplacement of a mid-ocean ridge lava flow on the East Pacific Rise at 9° 46' 51" N. <i>Earth and Planetary Science Letters</i> , 1996, 144, E1-E7.	1.8	89
13	Estimating silicic lava vesicularity with thermal remote sensing: a new technique for volcanic mapping and monitoring. <i>Bulletin of Volcanology</i> , 1999, 61, 32-39.	1.1	88
14	Estimate of pyroclastic flow velocities resulting from explosive decompression of lava domes. <i>Nature</i> , 1993, 363, 612-615.	13.7	85
15	Intrusive and extrusive growth of the Mount St Helens lava dome. <i>Nature</i> , 1990, 348, 435-437.	13.7	82
16	Solidifying Bingham extrusions: a model for the growth of silicic lava domes. <i>Journal of Fluid Mechanics</i> , 1997, 347, 13-36.	1.4	81
17	Constraints on the mechanism of long-term, steady subsidence at Medicine Lake volcano, northern California, from GPS, leveling, and InSAR. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 150, 55-78.	0.8	78
18	Structural evidence for dikes beneath silicic domes, Medicine Lake Highland Volcano, California. <i>Geology</i> , 1983, 11, 458.	2.0	72

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19	The mechanism of intrusion of the Inyo Dike, Long Valley Caldera, California. <i>Journal of Geophysical Research</i> , 1988, 93, 4321-4334.	3.3	66
20	Rheology of the 1983 Royal Gardens basalt flows, Kilauea Volcano, Hawaii. <i>Bulletin of Volcanology</i> , 1986, 48, 87-96.	1.1	62
21	On the deformation and freezing of enclaves during magma mixing. <i>Journal of Volcanology and Geothermal Research</i> , 2000, 95, 1-8.	0.8	62
22	Patterns of magma flow in segmented silicic dikes at Summer Coon volcano, Colorado: AMS and thin section analysis. <i>Earth and Planetary Science Letters</i> , 2004, 219, 155-169.	1.8	62
23	Rheologic properties and kinematics of emplacement of the chaos jumbles rockfall avalanche, Lassen Volcanic National Park, California. <i>Journal of Geophysical Research</i> , 1987, 92, 3623-3633.	3.3	58
24	Shapes of Venusian "pancake" domes imply episodic emplacement and silicic composition. <i>Geophysical Research Letters</i> , 1993, 20, 261-264.	1.5	56
25	Mount St. Helens and Santiaguito lava domes: The effect of short-term eruption rate on surface texture and degassing processes. <i>Journal of Volcanology and Geothermal Research</i> , 1995, 69, 105-116.	0.8	52
26	Hydrogen-isotope evidence for extrusion mechanisms of the Mount St Helens lava dome. <i>Nature</i> , 1989, 341, 521-523.	13.7	49
27	Formation of multiple fold generations on lava flow surfaces: Influence of strain rate, cooling rate, and lava composition. <i>Journal of Volcanology and Geothermal Research</i> , 1998, 80, 281-292.	0.8	48
28	A model for radial dike emplacement in composite cones based on observations from Summer Coon volcano, Colorado, USA. <i>Bulletin of Volcanology</i> , 2008, 70, 861-875.	1.1	48
29	Gravity instability in the Holocene Big and Little Glass Mountain rhyolitic obsidian flows, northern California. <i>Tectonophysics</i> , 1980, 66, 147-166.	0.9	41
30	Rheological properties of mudflows associated with the spring 1980 eruptions of Mount St. Helens Volcano, Washington. <i>Geophysical Research Letters</i> , 1981, 8, 43-46.	1.5	38
31	Predicting yield strengths and effusion rates of lava domes from morphology and underlying topography. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 129, 125-138.	0.8	34
32	Effects of eruption history and cooling rate on lava dome growth. <i>Bulletin of Volcanology</i> , 1995, 57, 229-239.	1.1	33
33	Hydrogen isotope analysis of rehydrated silicic lavas: implications for eruption mechanisms. <i>Earth and Planetary Science Letters</i> , 2001, 185, 331-341.	1.8	28
34	Cooling and deformation of sulfur flows. <i>Icarus</i> , 1983, 56, 38-50.	1.1	27
35	The dynamics of magma withdrawal from a density stratified dyke. <i>Earth and Planetary Science Letters</i> , 1987, 85, 516-524.	1.8	25
36	The effect of viscosity on impact cratering and possible application to the icy satellites of Saturn and Jupiter. <i>Journal of Geophysical Research</i> , 1984, 89, 417-423.	3.3	18

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37	Structural geologic constraints on the rheology of rhyolitic obsidian. <i>Journal of Non-Crystalline Solids</i> , 1984, 67, 135-146.	1.5	15
38	Diagenetic density inversions and the deformation of shallow marine chert beds in Israel. <i>Sedimentology</i> , 1983, 30, 261-271.	1.6	6
39	Volcano warning needed. <i>Nature</i> , 1991, 351, 611-611.	13.7	5
40	Criteria for recognition of constructional silicic lava flow surfaces. <i>Earth Surface Processes and Landforms</i> , 1994, 19, 531-541.	1.2	5
41	Exploding volcanic myths. <i>Nature</i> , 1995, 373, 660-661.	13.7	4
42	Mount Unzen rumbles on. <i>Nature</i> , 1992, 357, 119-119.	13.7	3
43	Volcanoes' volatile behaviour. <i>Nature</i> , 1991, 352, 188-188.	13.7	2
44	What goes up could come down. <i>Nature</i> , 1992, 359, 102-103.	13.7	1
45	Down under the volcano. <i>Nature</i> , 1993, 366, 108-108.	13.7	0
46	Using Stakeholder Engagement and Visualization to Aid Decision-Making About Water Use in The Middle East. <i>NATO Science for Peace and Security Series C: Environmental Security</i> , 2009, , 257-274.	0.1	0
47	Digital City Testbed Center: Using campuses as smart city testbeds in the binational Cascadia region. , 2020, , .		0