

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	Digital City Testbed Center: Using campuses as smart city testbeds in the binational Cascadia region. , 2020, , .		0
2	Using Stakeholder Engagement and Visualization to Aid Decision-Making About Water Use in The Middle East. NATO Science for Peace and Security Series C: Environmental Security, 2009, , 257-274.	0.1	0
3	A model for radial dike emplacement in composite cones based on observations from Summer Coon volcano, Colorado, USA. Bulletin of Volcanology, 2008, 70, 861-875.	1.1	48
4	Constraints on the mechanism of long-term, steady subsidence at Medicine Lake volcano, northern California, from GPS, leveling, and InSAR. Journal of Volcanology and Geothermal Research, 2006, 150, 55-78.	0.8	78
5	Toward Inherently Secure and Resilient Societies. Science, 2005, 309, 1034-1036.	6.0	309
6	Predicting yield strengths and effusion rates of lava domes from morphology and underlying topography. Journal of Volcanology and Geothermal Research, 2004, 129, 125-138.	0.8	34
7	Patterns of magma flow in segmented silicic dikes at Summer Coon volcano, Colorado: AMS and thin section analysis. Earth and Planetary Science Letters, 2004, 219, 155-169.	1.8	62
8	Hydrogen isotope analysis of rehydrated silicic lavas: implications for eruption mechanisms. Earth and Planetary Science Letters, 2001, 185, 331-341.	1.8	28
9	On the deformation and freezing of enclaves during magma mixing. Journal of Volcanology and Geothermal Research, 2000, 95, 1-8.	0.8	62
10	A laboratory investigation into the effects of slope on lava flow morphology. Journal of Volcanology and Geothermal Research, 2000, 96, 145-159.	0.8	114
11	Estimating silicic lava vesicularity with thermal remote sensing: a new technique for volcanic mapping and monitoring. Bulletin of Volcanology, 1999, 61, 32-39.	1.1	88
12	Formation of multiple fold generations on lava flow surfaces: Influence of strain rate, cooling rate, and lava composition. Journal of Volcanology and Geothermal Research, 1998, 80, 281-292.	0.8	48
13	Solidifying Bingham extrusions: a model for the growth of silicic lava domes. Journal of Fluid Mechanics, 1997, 347, 13-36.	1.4	81
14	Rapid emplacement of a mid-ocean ridge lava flow on the East Pacific Rise at 9° 46' 51" N. Earth and Planetary Science Letters, 1996, 144, E1-E7.	1.8	89
15	Exploding volcanic myths. Nature, 1995, 373, 660-661.	13.7	4
16	Mount St. Helens and Santiaguito lava domes: The effect of short-term eruption rate on surface texture and degassing processes. Journal of Volcanology and Geothermal Research, 1995, 69, 105-116.	0.8	52
17	Quantification of submarine lava-flow morphology through analog experiments. Geology, 1995, 23, 73.	2.0	208
18	Effects of eruption history and cooling rate on lava dome growth. Bulletin of Volcanology, 1995, 57, 229-239.	1.1	33

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19	Criteria for recognition of constructional silicic lava flow surfaces. <i>Earth Surface Processes and Landforms</i> , 1994, 19, 531-541.	1.2	5
20	Estimate of pyroclastic flow velocities resulting from explosive decompression of lava domes. <i>Nature</i> , 1993, 363, 612-615.	13.7	85
21	Down under the volcano. <i>Nature</i> , 1993, 366, 108-108.	13.7	0
22	Shapes of Venusian "pancake" domes imply episodic emplacement and silicic composition. <i>Geophysical Research Letters</i> , 1993, 20, 261-264.	1.5	56
23	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
24	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
25	Mount Unzen rumbles on. <i>Nature</i> , 1992, 357, 119-119.	13.7	3
26	What goes up could come down. <i>Nature</i> , 1992, 359, 102-103.	13.7	1
27	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
28	Volcano warning needed. <i>Nature</i> , 1991, 351, 611-611.	13.7	5
29	Volcanoes' volatile behaviour. <i>Nature</i> , 1991, 352, 188-188.	13.7	2
30	Intrusive and extrusive growth of the Mount St Helens lava dome. <i>Nature</i> , 1990, 348, 435-437.	13.7	82
31	Radial spreading of viscous-gravity currents with solidifying crust. <i>Journal of Fluid Mechanics</i> , 1990, 221, 485-509.	1.4	182
32	Hydrogen-isotope evidence for extrusion mechanisms of the Mount St Helens lava dome. <i>Nature</i> , 1989, 341, 521-523.	13.7	49
33	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
34	Internal textures of rhyolite flows as revealed by research drilling. <i>Geology</i> , 1987, 15, 549.	2.0	123
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	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

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37	Rheology of the 1983 Royal Gardens basalt flows, Kilauea Volcano, Hawaii. <i>Bulletin of Volcanology</i> , 1986, 48, 87-96.	1.1	62
38	Structural geologic constraints on the rheology of rhyolitic obsidian. <i>Journal of Non-Crystalline Solids</i> , 1984, 67, 135-146.	1.5	15
39	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
40	Diagenetic density inversions and the deformation of shallow marine chert beds in Israel. <i>Sedimentology</i> , 1983, 30, 261-271.	1.6	6
41	Cooling and deformation of sulfur flows. <i>Icarus</i> , 1983, 56, 38-50.	1.1	27
42	Structural evidence for dikes beneath silicic domes, Medicine Lake Highland Volcano, California. <i>Geology</i> , 1983, 11, 458.	2.0	72
43	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
44	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
45	Surface folding and viscosity of rhyolite flows. <i>Geology</i> , 1980, 8, 250.	2.0	151
46	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
47	Ropy pahoehoe: Surface folding of a viscous fluid. <i>Journal of Volcanology and Geothermal Research</i> , 1978, 4, 151-170.	0.8	132