

Barry Voight

List of Publications by Year in descending order

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45
papers

2,982
citations

201674

27
h-index

254184

43
g-index

45
all docs

45
docs citations

45
times ranked

1865
citing authors

#	ARTICLE	IF	CITATIONS
1	A method for prediction of volcanic eruptions. <i>Nature</i> , 1988, 332, 125-130.	27.8	457
2	A Relation to Describe Rate-Dependent Material Failure. <i>Science</i> , 1989, 243, 200-203.	12.6	387
3	Multiple edifice failures, debris avalanches and associated eruptions in the Holocene history of Shiveluch volcano, Kamchatka, Russia. <i>Bulletin of Volcanology</i> , 1999, 61, 324-342.	3.0	155
4	Directed blasts and blast-generated pyroclastic density currents: a comparison of the Bezymianny 1956, Mount St Helens 1980, and Soufrière Hills, Montserrat 1997 eruptions and deposits. <i>Bulletin of Volcanology</i> , 2007, 69, 701-740.	3.0	143
5	Slow rock fracture as eruption precursor at Soufriere Hills Volcano, Montserrat. <i>Geophysical Research Letters</i> , 1998, 25, 3665-3668.	4.0	137
6	Structural stability of andesite volcanoes and lava domes. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2000, 358, 1663-1703.	3.4	130
7	Dike intrusion as a trigger for large earthquakes and the failure of volcano flanks. <i>Journal of Geophysical Research</i> , 1995, 100, 6005-6024.	3.3	124
8	Prospects for eruption prediction in near real-time. <i>Nature</i> , 1991, 350, 695-698.	27.8	111
9	Instability of Magma Flow from Volatile-Dependent Viscosity. <i>Science</i> , 1999, 285, 1883-1885.	12.6	99
10	Lessons from Ontake-san: A comparative analysis of debris avalanche dynamics. <i>Engineering Geology</i> , 1994, 38, 261-297.	6.3	95
11	Implications of Magma Transfer Between Multiple Reservoirs on Eruption Cycling. <i>Science</i> , 2008, 322, 246-248.	12.6	87
12	Instability and collapse of hazardous gas-pressurized lava domes. <i>Geophysical Research Letters</i> , 2000, 27, 1-4.	4.0	85
13	Graphical and PC-software analysis of volcano eruption precursors according to the Materials Failure Forecast Method (FFM). <i>Journal of Volcanology and Geothermal Research</i> , 1995, 64, 295-320.	2.1	82
14	Modelling ground deformation caused by oscillating overpressure in a dyke conduit at Soufrière Hills Volcano, Montserrat. <i>Tectonophysics</i> , 2009, 471, 87-95.	2.2	67
15	Seismological aspects of the 1989-1990 eruption at Redoubt Volcano, Alaska: the Materials Failure Forecast Method (FFM) with RSAM and SSAM seismic data. <i>Journal of Volcanology and Geothermal Research</i> , 1994, 62, 469-498.	2.1	65
16	Evaluation of volcano flank instability triggered by dyke intrusion. <i>Geological Society Special Publication</i> , 1996, 110, 45-53.	1.3	52
17	Pyroclastic surges and flows from the 8-10 May 1997 explosive eruption of Bezymianny volcano, Kamchatka, Russia. <i>Bulletin of Volcanology</i> , 2002, 64, 455-471.	3.0	46
18	Magma-sponge hypothesis and stratovolcanoes: Case for a compressible reservoir and quasi-steady deep influx at Soufrière Hills Volcano, Montserrat. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	45

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19	Numerical simulation of the December 1997 Debris Avalanche in Montserrat, Lesser Antilles. <i>Geophysical Research Letters</i> , 2001, 28, 2529-2532.	4.0	43
20	Human survival in volcanic eruptions: Thermal injuries in pyroclastic surges, their causes, prognosis and emergency management. <i>Burns</i> , 2017, 43, 1051-1069.	1.9	41
21	Multiple-pulsed debris avalanche emplacement at Mount St. Helens in 1980: Evidence from numerical continuum flow simulations. <i>Journal of Volcanology and Geothermal Research</i> , 1995, 66, 227-250.	2.1	40
22	Crustal stress in Iceland. <i>Pure and Applied Geophysics</i> , 1977, 115, 153-190.	1.9	39
23	Geodetic constraints on the shallow magma system at Soufrière Hills Volcano, Montserrat. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	35
24	Influence of extrusion rate and magma rheology on the growth of lava domes: Insights from particle-dynamics modeling. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 285, 100-117.	2.1	35
25	Elastic deformation models of Krafla Volcano, Iceland, for the decade 1975 through 1985. <i>Bulletin of Volcanology</i> , 1991, 53, 436-459.	3.0	34
26	Long term surface deformation of Soufrière Hills Volcano, Montserrat from GPS geodesy: Inferences from simple elastic inverse models. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	29
27	Evaluating Hazard of Landslide-Induced Water Waves. <i>Journal of the Waterway, Port, Coastal & Ocean Division, ASCE, Proc Paper 16632</i> , 1982, 108, 504-512.	0.2	29
28	Textural and mineral chemistry constraints on evolution of Merapi Volcano, Indonesia. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 261, 20-37.	2.1	28
29	Dual reservoir structure at Soufrière Hills Volcano inferred from continuous GPS observations and heterogeneous elastic modeling. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	27
30	The mechanics of harmonic gas pressurization and failure of lava domes. <i>Geophysical Journal International</i> , 2001, 145, 187-198.	2.4	25
31	Theory of dike intrusion in a saturated porous solid. <i>Journal of Geophysical Research</i> , 1992, 97, 9105-9117.	3.3	22
32	Classification and idealized limit-equilibrium analyses of dome collapses at Soufrière Hills volcano, Montserrat, during growth of the first lava dome: November 1995–March 1998. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 139, 241-258.	2.1	21
33	Fracture analysis near the mid-ocean plate boundary, Reykjavik-Hvalfjörður area, Iceland. <i>Tectonophysics</i> , 1981, 76, 171-236.	2.2	20
34	Mechanisms for rainfall-concurrent lava dome collapses at Soufrière Hills Volcano, 2000–2002. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 160, 195-209.	2.1	20
35	Pyroclastic Density Current Hazards and Risk. , 2015, , 109-140.		18
36	Instability of exogenous lava lobes during intense rainfall. <i>Bulletin of Volcanology</i> , 2004, 66, 725-734.	3.0	17

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37	Influence of pre-eruptive degassing and crystallization on the juvenile products of laterally directed volcanic explosions. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 198, 264-274.	2.1	14
38	Magmatic-metering controls the stopping and restarting of eruptions. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	14
39	Laboratory investigation of the frictional behavior of granular volcanic material. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 173, 265-279.	2.1	13
40	Probabilistic Enhancement of the Failure Forecast Method Using a Stochastic Differential Equation and Application to Volcanic Eruption Forecasts. <i>Frontiers in Earth Science</i> , 2019, 7, .	1.8	13
41	Tectonophysical implications of rock stress determinations. <i>Geologische Rundschau: Zeitschrift Fur Allgemeine Geologie</i> , 1968, 58, 655-676.	1.3	12
42	Influence of conduit flow mechanics on magma rheology and the growth style of lava domes. <i>Geophysical Journal International</i> , 2018, 213, 1768-1784.	2.4	12
43	Chapter 12 Geodetic imaging of magma migration at Soufrière Hills Volcano 1995 to 2008. <i>Geological Society Memoir</i> , 2014, 39, 219-227.	1.7	5
44	Undrained Sediment Loading Key to Long-Runout Submarine Mass Movements: Evidence from the Caribbean Volcanic Arc. , 2012, , 417-428.		5
45	A half-century of geologic and geothermic investigations in Iceland: The legacy of Kristján Sæmundsson. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 391, 106434.	2.1	4