

# Barry Voight

## List of Publications by Year in descending order

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45  
papers

2,982  
citations

201385

27  
h-index

253896

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.  | 13.7 | 457       |
| 2  | A Relation to Describe Rate-Dependent Material Failure. <i>Science</i> , 1989, 243, 200-203.  | 6.0  | 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.  | 1.1  | 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. | 1.1  | 143       |
| 5  | Slow rock fracture as eruption precursor at Soufriere Hills Volcano, Montserrat. <i>Geophysical Research Letters</i> , 1998, 25, 3665-3668.   | 1.5  | 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.   | 1.6  | 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.  | 13.7 | 111       |
| 9  | Instability of Magma Flow from Volatile-Dependent Viscosity. <i>Science</i> , 1999, 285, 1883-1885.   | 6.0  | 99        |
| 10 | Lessons from Ontake-san: A comparative analysis of debris avalanche dynamics. <i>Engineering Geology</i> , 1994, 38, 261-297.   | 2.9  | 95        |
| 11 | Implications of Magma Transfer Between Multiple Reservoirs on Eruption Cycling. <i>Science</i> , 2008, 322, 246-248.  | 6.0  | 87        |
| 12 | Instability and collapse of hazardous gas-pressurized lava domes. <i>Geophysical Research Letters</i> , 2000, 27, 1-4.  | 1.5  | 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.  | 0.8  | 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.   | 0.9  | 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.           | 0.8  | 65        |
| 16 | Evaluation of volcano flank instability triggered by dyke intrusion. <i>Geological Society Special Publication</i> , 1996, 110, 45-53.  | 0.8  | 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.  | 1.1  | 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, .   | 1.5  | 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.   | 1.5 | 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.   | 1.1 | 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.  | 0.8 | 40        |
| 22 | Crustal stress in Iceland. <i>Pure and Applied Geophysics</i> , 1977, 115, 153-190.   | 0.8 | 39        |
| 23 | Geodetic constraints on the shallow magma system at Soufrière Hills Volcano, Montserrat. <i>Geophysical Research Letters</i> , 2005, 32, .  | 1.5 | 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.   | 0.8 | 35        |
| 25 | Elastic deformation models of Krafla Volcano, Iceland, for the decade 1975 through 1985. <i>Bulletin of Volcanology</i> , 1991, 53, 436-459.  | 1.1 | 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, .   | 1.5 | 29        |
| 27 | Evaluating Hazard of Landslide-Induced Water Waves. <i>Journal of the Waterway, Port, Coastal &amp; 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.   | 0.8 | 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, .   | 1.5 | 27        |
| 30 | The mechanics of harmonic gas pressurization and failure of lava domes. <i>Geophysical Journal International</i> , 2001, 145, 187-198.  | 1.0 | 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. | 0.8 | 21        |
| 33 | Fracture analysis near the mid-ocean plate boundary, Reykjavik-Hvalfjörður area, Iceland. <i>Tectonophysics</i> , 1981, 76, 171-236.  | 0.9 | 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.   | 0.8 | 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.  | 1.1 | 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. | 0.8 | 14        |
| 38 | Magmatic-metering controls the stopping and restarting of eruptions. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.   | 1.5 | 14        |
| 39 | Laboratory investigation of the frictional behavior of granular volcanic material. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 173, 265-279.  | 0.8 | 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, .        | 0.8 | 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.  | 1.0 | 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.   | 0.9 | 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.                      | 0.8 | 4         |