

B F Houghton

List of Publications by Year in descending order

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77
papers

4,403
citations

101535

36
h-index

110368

64
g-index

83
all docs

83
docs citations

83
times ranked

2753
citing authors

#	ARTICLE	IF	CITATIONS
1	A vesicularity index for pyroclastic deposits. <i>Bulletin of Volcanology</i> , 1989, 51, 451-462.	3.0	512
2	The 2018 rift eruption and summit collapse of K�lauea Volcano. <i>Science</i> , 2019, 363, 367-374.	12.6	353
3	Total grain-size distribution and volume of tephra-fall deposits. <i>Bulletin of Volcanology</i> , 2005, 67, 441-456.	3.0	325
4	Textural studies of vesicles in volcanic rocks: An integrated methodology. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 190, 271-289.	2.1	252
5	Probabilistic modeling of tephra dispersal: Hazard assessment of a multiphase rhyolitic eruption at Tarawera, New Zealand. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	179
6	Linking variable explosion style and magma textures during 2002 at Stromboli volcano, Italy. <i>Bulletin of Volcanology</i> , 2007, 69, 445-460.	3.0	147
7	Complex changes in eruption dynamics during the 79 AD eruption of Vesuvius. <i>Bulletin of Volcanology</i> , 2005, 67, 144-159.	3.0	109
8	Textural and geophysical characterization of explosive basaltic activity at Villarrica volcano. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	104
9	Physical mingling of magma and complex eruption dynamics in the shallow conduit at Stromboli volcano, Italy. <i>Geology</i> , 2005, 33, 425.	4.4	101
10	Deep-seated fractionation during the rise of a small-volume basalt magma batch: Crater Hill, Auckland, New Zealand. <i>Contributions To Mineralogy and Petrology</i> , 2008, 155, 511-527.	3.1	87
11	Diverse patterns of ascent, degassing, and eruption of rhyolite magma during the 1.8ka Taupo eruption, New Zealand: Evidence from clast vesicularity. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 195, 31-47.	2.1	87
12	Eruption dynamics of Hawaiian-style fountains: the case study of episode 1 of the K�lauea Iki 1959 eruption. <i>Bulletin of Volcanology</i> , 2011, 73, 511-529.	3.0	82
13	Tephra dispersal and eruption dynamics of wet and dry phases of the 1875 eruption of Askja Volcano, Iceland. <i>Bulletin of Volcanology</i> , 2010, 72, 259-278.	3.0	80
14	The largest deep-ocean silicic volcanic eruption of the past century. <i>Science Advances</i> , 2018, 4, e1701121.	10.3	80
15	Eruption style at K�lauea Volcano in Hawai�i linked to primary melt composition. <i>Nature Geoscience</i> , 2014, 7, 464-469.	12.9	71
16	Modeling tephra sedimentation from a Ruapehu weak plume eruption. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	70
17	Complex proximal deposition during the Plinian eruptions of 1912 at Novarupta, Alaska. <i>Bulletin of Volcanology</i> , 2004, 66, 95-133.	3.0	68
18	Complex proximal sedimentation from Plinian plumes: the example of Tarawera 1886. <i>Bulletin of Volcanology</i> , 2006, 69, 89-103.	3.0	67

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19	Magma decompression rates during explosive eruptions of K�lauea volcano, Hawaii, recorded by melt embayments. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	3.0	67
20	⁴⁰ Ar/ ³⁹ Ar ages of silicic volcanic rocks in the Tauranga�Kaimai area, New Zealand: Dating the transition between volcanism in the Coromandel Arc and the Taupo Volcanic Zone. <i>New Zealand Journal of Geology, and Geophysics</i> , 2005, 48, 459-469.	1.8	64
21	Natural Warning Signs of Tsunamis: Human Sensory Experience and Response to the 2004 Great Sumatra Earthquake and Tsunami in Thailand. <i>Earthquake Spectra</i> , 2006, 22, 671-691.	3.1	63
22	Transitions between fall phases and pyroclastic density currents during the AD 79 eruption at Vesuvius: building a transient conduit model from the textural and volatile record. <i>Bulletin of Volcanology</i> , 2012, 74, 2363-2381.	3.0	60
23	Abrupt transitions during sustained explosive eruptions: examples from the 1912 eruption of Novarupta, Alaska. <i>Bulletin of Volcanology</i> , 2006, 69, 189-206.	3.0	55
24	The transition from explosive to effusive eruptive regime: The example of the 1912 Novarupta eruption, Alaska. <i>Bulletin of the Geological Society of America</i> , 2006, 118, 620-634.	3.3	55
25	Growth of a young, frequently active composite cone: Ngauruhoe volcano, New Zealand. <i>Bulletin of Volcanology</i> , 2002, 64, 392-409.	3.0	51
26	The cascading origin of the 2018 K�lauea eruption and implications for future forecasting. <i>Nature Communications</i> , 2020, 11, 5646.	12.8	49
27	Integrating puffing and explosions in a general scheme for Strombolian�style activity. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 1860-1875.	3.4	48
28	Complex bombs of phreatomagmatic eruptions: Role of agglomeration and welding in vents of the 1886 Rotomahana eruption, Tarawera, New Zealand. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	47
29	Hawaiian and Strombolian Eruptions. , 2015, , 485-503.		47
30	Vesiculation of high fountaining Hawaiian eruptions: episodes 15 and 16 of 1959 K�lauea Iki. <i>Bulletin of Volcanology</i> , 2012, 74, 441-455.	3.0	46
31	Fragmentation and Plinian eruption of crystallizing basaltic magma. <i>Earth and Planetary Science Letters</i> , 2018, 500, 97-104.	4.4	46
32	Tsunami Warnings: Understanding in Hawai�. <i>Natural Hazards</i> , 2007, 40, 71-87.	3.4	45
33	The pumice raft-forming 2012 Havre submarine eruption was effusive. <i>Earth and Planetary Science Letters</i> , 2018, 489, 49-58.	4.4	45
34	Relating vesicle shapes in pyroclasts to eruption styles. <i>Bulletin of Volcanology</i> , 2013, 75, 1.	3.0	44
35	Externally triggered renewed bubble nucleation in basaltic magma: The 12 October 2008 eruption at Halema�uma�u Overlook vent, K�lauea, Hawai�, USA. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	39
36	Explosive to effusive transition during the largest volcanic eruption of the 20th century (Novarupta) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	4.4	39

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37	Constraining explosive volcanism: subjective choices during estimates of eruption magnitude. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	3.0	38
38	From field data to volumes: constraining uncertainties in pyroclastic eruption parameters. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	3.0	38
39	Contrasting grain size and componentry in complex proximal deposits of the 1886 Tarawera basaltic Plinian eruption. <i>Bulletin of Volcanology</i> , 2007, 69, 903-926.	3.0	36
40	Permeability During Magma Expansion and Compaction. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 9825-9848.	3.4	33
41	Community preparedness for lava flows from Mauna Loa and Hualālai volcanoes, Kona, Hawai'i. <i>Bulletin of Volcanology</i> , 2004, 66, 531-540.	3.0	32
42	Hawaiian fissure fountains 1: decoding deposits—episode 1 of the 1969–1974 Mauna Ulu eruption. <i>Bulletin of Volcanology</i> , 2012, 74, 1729-1743.	3.0	31
43	Pyroclastic Fall Deposits. , 2015, , 599-616.		29
44	Syn- and post-fragmentation textures in submarine pyroclasts from Lāʻihi Seamount, Hawai'i. <i>Journal of Volcanology and Geothermal Research</i> , 2010, 191, 93-106.	2.1	28
45	Magma degassing during the Plinian eruption of Novarupta, Alaska, 1912. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	27
46	Dynamics of a powerful deep submarine eruption recorded in H ₂ O contents and speciation in rhyolitic glass: The 2012 Havre eruption. <i>Earth and Planetary Science Letters</i> , 2018, 494, 135-147.	4.4	27
47	Managing Tsunami Risk: Social Context Influences on Preparedness. <i>Journal of Pacific Rim Psychology</i> , 2009, 3, 27-37.	1.7	26
48	Eruptive and shallow conduit dynamics during Vulcanian explosions: insights from the Episode IV block field of the 1912 eruption of Novarupta, Alaska. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	21
49	A frozen record of density-driven crustal overturn in lava lakes: the example of Kālauea Iki 1959. <i>Bulletin of Volcanology</i> , 2009, 71, 313-318.	3.0	20
50	Brittle fragmentation by rapid gas separation in a Hawaiian fountain. <i>Nature Geoscience</i> , 2021, 14, 242-247.	12.9	20
51	First 3D imaging characterization of Pele's hair from Kilauea volcano (Hawaii). <i>Scientific Reports</i> , 2019, 9, 1711.	3.3	18
52	Proximal lava drainage controls on basaltic fissure eruption dynamics. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	17
53	Single explosions at Stromboli in 2002: Use of clast microtextures to map physical diversity across a fragmentation zone. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 170, 262-268.	2.1	16
54	Submarine giant pumice: a window into the shallow conduit dynamics of a recent silicic eruption. <i>Bulletin of Volcanology</i> , 2019, 81, 1.	3.0	16

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55	Degassing and gas percolation in basaltic magmas. <i>Earth and Planetary Science Letters</i> , 2021, 573, 117134.	4.4	16
56	Features of lava lake filling and draining and their implications for eruption dynamics. <i>Bulletin of Volcanology</i> , 2009, 71, 767-780.	3.0	15
57	Dispersal of key subplinianâ€“Plinian tephra from Hekla volcano, Iceland: implications for eruption source parameters. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	3.0	15
58	Total grain size distribution of an intense Hawaiian fountaining event: case study of the 1959 K�lauea lki eruption. <i>Bulletin of Volcanology</i> , 2019, 81, 1.	3.0	15
59	Earthquakes indicated magma viscosity during K�lauea�™s 2018 eruption. <i>Nature</i> , 2021, 592, 237-241.	27.8	15
60	Constraining particle size�dependent plume sedimentation from the 17 June 1996 eruption of Ruapehu Volcano, New Zealand, using geophysical inversions. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1749-1763.	3.4	13
61	Spatter matters â€“ distinguishing primary (eruptive) and secondary (non-eruptive) spatter deposits. <i>Scientific Reports</i> , 2018, 8, 9179.	3.3	13
62	Insights Into P�hoehoe Lava Emplacement Using Visible and Thermal Structure�From�Motion Photogrammetry. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 5678-5695.	3.4	12
63	Structure, stratigraphy, and eruption dynamics of a young tuff ring: Hanauma Bay, O�ahu, Hawai�™. <i>Bulletin of Volcanology</i> , 2012, 74, 1683-1697.	3.0	11
64	Novel inversion approach to constrain plume sedimentation from tephra deposit data: Application to the 17 June 1996 eruption of Ruapehu volcano, New Zealand. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	11
65	The opening subplinian phase of the Hekla 1991 eruption: properties of the tephra fall deposit. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	11
66	3�D high-speed imaging of volcanic bomb trajectory in basaltic explosive eruptions. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4268-4275.	2.5	10
67	Sink or float: microtextural controls on the fate of pumice deposition during the 2012 submarine Havre eruption. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	10
68	Tephra fallout hazards at Quito International Airport (Ecuador). <i>Bulletin of Volcanology</i> , 2015, 77, 1.	3.0	9
69	Partitioning of pyroclasts between ballistic transport and a convective plume: K�lauea volcano, 19 March 2008. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3379-3391.	3.4	8
70	Land, lava, and disaster create a social dilemma after the 2018 eruption of K�lauea volcano. <i>Nature Communications</i> , 2021, 12, 1223.	12.8	7
71	The Birth of a Hawaiian Fissure Eruption. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, .	3.4	6
72	Large-scale interaction of lake water and rhyolitic magma during the 1.8 ka Taupo eruption, New Zealand. <i>Geophysical Monograph Series</i> , 2003, , 97-109.	0.1	5

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73	Porosity-permeability relationships in crystal-rich basalts from Plinian eruptions. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	3
74	Isotopic signatures of magmatic fluids and seawater within silicic submarine volcanic deposits. <i>Geochimica Et Cosmochimica Acta</i> , 2022, 326, 214-233.	3.9	3
75	High-temperature oxidation of proximal basaltic pyroclasts, 1886 Tarawera, New Zealand. <i>Bulletin of Volcanology</i> , 2022, 84, 1.	3.0	3
76	Outgassing through magmatic fractures enables effusive eruption of silicic magma. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 430, 107617.	2.1	3
77	Reticulite-Producing Fountains From Ring Fractures in K��lauea Caldera ca. 1500 CE. , 0, .		1