

Hugh Tuffen

List of Publications by Year in descending order

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67
papers

2,973
citations

172386

29
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161767

54
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72
all docs

72
docs citations

72
times ranked

1724
citing authors

#	ARTICLE	IF	CITATIONS
1	Thermal impact of dykes on ignimbrite and implications for fluid flow compartmentalisation in calderas. <i>Volcanica</i> , 2022, 5, 55-73.	0.6	0
2	Thermal impact of dykes on ignimbrite and implications for fluid flow channelisation in a caldera. <i>Volcanica</i> , 2022, 5, 75-93.	0.6	1
3	Transient conduit permeability controlled by a shift between compactant shear and dilatant rupture at Unzen volcano (Japan). <i>Solid Earth</i> , 2022, 13, 875-900.	1.2	0
4	Outgassing through magmatic fractures enables effusive eruption of silicic magma. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 430, 107617.	0.8	3
5	A model for permeability evolution during volcanic welding. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 409, 107118.	0.8	18
6	Obsidian. , 2021, , 196-208.		2
7	Silicic conduits as supersized tuffisites: Clastogenic influences on shifting eruption styles at Cord�n Caulle volcano (Chile). <i>Bulletin of Volcanology</i> , 2021, 83, 1.	1.1	15
8	The Th�r�lfell tuya, South Iceland � A new type of basaltic glaciovolcano. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 411, 107175.	0.8	4
9	Pressure-Driven Opening and Filling of a Volcanic Hydrofracture Recorded by Tuffisite at H�safell, Iceland: A Potential Seismic Source. <i>Frontiers in Earth Science</i> , 2021, 9, .	0.8	7
10	Chemical, Textural and Thermal Analyses of Local Interactions Between Lava Flow and a Tree � Case Study From P�ho, Hawai�. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	5
11	Explosive-effusive volcanic eruption transitions caused by sintering. <i>Science Advances</i> , 2020, 6, .	4.7	39
12	Post-fragmentation vesiculation timescales in hydrous rhyolitic bombs from Chait�n volcano. <i>Journal of South American Earth Sciences</i> , 2020, 104, 102807.	0.6	8
13	Thermal Liability of Hyaloclastite in the Krafla Geothermal Reservoir, Iceland: The Impact of Phyllosilicates on Permeability and Rock Strength. <i>Geofluids</i> , 2020, 2020, 1-20.	0.3	14
14	The Permeability Evolution of Tuffisites and Implications for Outgassing Through Dense Rhyolitic Magma. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 8281-8299.	1.4	29
15	Comparative field study of shallow rhyolite intrusions in Iceland: Emplacement mechanisms and impact on country rocks. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 388, 106691.	0.8	11
16	A general model for welding of ash particles in volcanic systems validated using in situ X-ray tomography. <i>Earth and Planetary Science Letters</i> , 2019, 525, 115726.	1.8	30
17	Geochemical constraints on the role of tuffisite veins in degassing at the 2008�09 Chait�n and 2011�12 Cord�n Caulle rhyolite eruptions. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 380, 80-93.	0.8	9
18	The origin and evolution of breakouts in a cooling-limited rhyolite lava flow. <i>Bulletin of the Geological Society of America</i> , 2019, 131, 137-154.	1.6	11

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19	Basalt, Unveiling Fluid-filled Fractures, Inducing Sediment Intra-void Transport, Ephemeral: Examples from Katla 1918. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 369, 121-144.	0.8	9
20	Halogen (Cl, F) release during explosive, effusive, and intrusive phases of the 2011 rhyolitic eruption at Cordón Caulle volcano (Chile). <i>Volcanica</i> , 2019, 2, 73-90.	0.6	15
21	Degassing-induced chemical heterogeneity at the 2011-2012 Cordón Caulle eruption. <i>Volcanica</i> , 2019, 2, 211-237.	0.6	9
22	Spatially heterogeneous argon-isotope systematics and apparent $^{40}\text{Ar}/^{39}\text{Ar}$ ages in perlitised obsidian. <i>Chemical Geology</i> , 2018, 480, 44-57.	1.4	7
23	Growth of a Volcanic Edifice Through Plumbing System Processes—Volcanic Rift Zones, Magmatic Sheet-Intrusion Swarms and Long-Lived Conduits. , 2018, , 89-112.		10
24	Speculative Volcanology. <i>Environmental Humanities</i> , 2018, 10, 273-294.	0.4	26
25	Emplacing a Cooling-Limited Rhyolite Lava Flow: Similarities with Basaltic Lava Flows. <i>Frontiers in Earth Science</i> , 2017, 5, .	0.8	17
26	Conduit Dynamics in Transitional Rhyolitic Activity Recorded by Tuffsite Vein Textures from the 2008–2009 Chaitón Eruption. <i>Frontiers in Earth Science</i> , 2016, 4, .	0.8	50
27	Rapid laccolith intrusion driven by explosive volcanic eruption. <i>Nature Communications</i> , 2016, 7, 13585.	5.8	70
28	Unravelling textural heterogeneity in obsidian: Shear-induced outgassing in the Rocche Rosse flow. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 310, 137-158.	0.8	27
29	Examining rhyolite lava flow dynamics through photo-based 3D reconstructions of the 2011–2012 lava flowfield at Cordón-Caulle, Chile. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 304, 336-348.	0.8	50
30	Eruption and emplacement timescales of ignimbrite super-eruptions from thermo-kinetics of glass shards. <i>Frontiers in Earth Science</i> , 2015, 3, .	0.8	10
31	Cristobalite in the 2011–2012 Cordón Caulle eruption (Chile). <i>Bulletin of Volcanology</i> , 2015, 77, 1.	1.1	38
32	Seasonal release of anoxic geothermal meltwater from the Katla volcanic system at Sálheimajökull, Iceland. <i>Chemical Geology</i> , 2015, 396, 228-238.	1.4	10
33	Petrology, geochemistry and low-temperature alteration of lavas and pyroclastic rocks of the kimberlitic Igwisi Hills volcanoes, Tanzania. <i>Chemical Geology</i> , 2015, 405, 82-101.	1.4	18
34	Conduit- to Localized-scale Degassing during Plinian Eruptions: Insights from Major Element and Volatile (Cl and H ₂ O) Analyses within Vesuvius AD 79 Pumice. <i>Journal of Petrology</i> , 2014, 55, 315-344.	1.1	35
35	Fractures in a trachyandesitic lava at Álfajökull, Iceland, used to infer subglacial emplacement in 1727–8 eruption. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 288, 8-18.	0.8	5
36	Explosive origin of silicic lava: Textural and H_2O evidence for pyroclastic degassing during rhyolite effusion. <i>Earth and Planetary Science Letters</i> , 2014, 405, 52-61.	1.8	107

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37	Shallow vent architecture during hybrid explosiveâ€“effusive activity at CordÃ³n Caulle (Chile, 2011â€“12): Evidence from direct observations and pyroclast textures. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 262, 25-37.	0.8	133
38	Element variations in rhyolitic magma resulting from gas transport. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 121, 436-451.	1.6	40
39	Exceptional mobility of an advancing rhyolitic obsidian flow at CordÃ³n Caulle volcano in Chile. <i>Nature Communications</i> , 2013, 4, 2709.	5.8	110
40	Degassing-driven crystallisation in basalts. <i>Earth-Science Reviews</i> , 2013, 116, 1-16.	4.0	45
41	Pre-eruptive volatile content, degassing paths and depressurisation explaining the transition in style at the subglacial rhyolitic eruption of DalakvÃ¡sl, South Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 258, 143-162.	0.8	8
42	Direct observations of degassing-induced crystallization in basalts. <i>Geology</i> , 2013, 41, 243-246.	2.0	37
43	Explosive subglacial rhyolitic eruptions in Iceland are fuelled by high magmatic H ₂ O and closed-system degassing. <i>Geology</i> , 2013, 41, 251-254.	2.0	29
44	Using dissolved H ₂ O in rhyolitic glasses to estimate palaeo-ice thickness during a subglacial eruption at BlÃ¡hnÃ¡kur (TorfajÃ¡rkull, Iceland). <i>Bulletin of Volcanology</i> , 2012, 74, 1355-1378.	1.1	20
45	The role of melt-fracture degassing in defusing explosive rhyolite eruptions at volcÃ¡n ChaitÃ©n. <i>Earth and Planetary Science Letters</i> , 2012, 333-334, 63-69.	1.8	125
46	Evolution of the mechanics of the 2004â€“2008 Mt. St. Helens lava dome with time and temperature. <i>Earth and Planetary Science Letters</i> , 2011, 307, 191-200.	1.8	44
47	Subglacial Volcanism. <i>Encyclopedia of Earth Sciences Series</i> , 2011, , 1105-1106.	0.1	0
48	Magma degassing during subglacial eruptions and its use to reconstruct palaeo-ice thicknesses. <i>Earth-Science Reviews</i> , 2010, 99, 1-18.	4.0	53
49	How will melting of ice affect volcanic hazards in the twenty-first century?. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 2535-2558.	1.6	57
50	The emplacement of an obsidian dyke through thin ice: Hrafninnuhryggur, Krafla Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 185, 352-366.	0.8	88
51	Introduction to special issue on volcanoâ€“ice interactions on Earth and Mars: The state of the science. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 185, 247-250.	0.8	16
52	Spherulite crystallization induces Fe-redox redistribution in silicic melt. <i>Chemical Geology</i> , 2009, 268, 272-280.	1.4	23
53	The hydration and alteration of perlite and rhyolite. <i>Journal of the Geological Society</i> , 2009, 166, 895-904.	0.9	60
54	An explosiveâ€“intrusive subglacial rhyolite eruption at DalakvÃ¡sl, TorfajÃ¡rkull, Iceland. <i>Bulletin of Volcanology</i> , 2008, 70, 841-860.	1.1	19

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55	Evidence for seismogenic fracture of silicic magma. <i>Nature</i> , 2008, 453, 511-514.	13.7	121
56	Timescales of spherulite crystallization in obsidian inferred from water concentration profiles. <i>American Mineralogist</i> , 2008, 93, 1816-1822.	0.9	76
57	Volcano-ice interactions at Prestahn�kur, Iceland: rhyolite eruption during the last interglacial-glacial transition. <i>Annals of Glaciology</i> , 2007, 45, 38-47.	2.8	50
58	Will subglacial rhyolite eruptions be explosive or intrusive? Some insights from analytical models. <i>Annals of Glaciology</i> , 2007, 45, 87-94.	2.8	17
59	Models of ice melting and edifice growth at the onset of subglacial basaltic eruptions. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	34
60	Snow-contact volcanic facies and their use in determining past eruptive environments at Nevados de Chill�n volcano, Chile. <i>Bulletin of Volcanology</i> , 2006, 68, 363-376.	1.1	40
61	The trigger mechanism of low-frequency earthquakes on Montserrat. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 153, 37-50.	0.8	257
62	The formation of Helgafell, southwest Iceland, a monogenetic subglacial hyaloclastite ridge: Sedimentology, hydrology and volcano-ice interaction. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 152, 359-377.	0.8	69
63	Fault textures in volcanic conduits: evidence for seismic trigger mechanisms during silicic eruptions. <i>Bulletin of Volcanology</i> , 2005, 67, 370-387.	1.1	215
64	Repeated fracture and healing of silicic magma generate flow banding and earthquakes?. <i>Geology</i> , 2003, 31, 1089.	2.0	334
65	Physical volcanology of a subglacial-to-emergent rhyolitic tuya at Rau�fossafj�ll, Torfaj�rkull, Iceland. <i>Geological Society Special Publication</i> , 2002, 202, 213-236.	0.8	22
66	Melting of the glacier base during a small-volume subglacial rhyolite eruption: evidence from Bl�hn�kur, Iceland. <i>Sedimentary Geology</i> , 2002, 149, 183-198.	1.0	43
67	Products of an effusive subglacial rhyolite eruption: Bl�hn�kur, Torfaj�rkull, Iceland. <i>Bulletin of Volcanology</i> , 2001, 63, 179-190.	1.1	67