

Thermal vesiculation during volcanic eruptions

Nature

528, 544-547

DOI: [10.1038/nature16153](https://doi.org/10.1038/nature16153)

Citation Report

#	ARTICLE	IF	CITATIONS
1	Blowing Off Steam: Tuffisite Formation As a Regulator for Lava Dome Eruptions. <i>Frontiers in Earth Science</i> , 2016, 4, .	1.8	70
2	Conduit Dynamics in Transitional Rhyolitic Activity Recorded by Tuffisite Vein Textures from the 2008–2009 Chait�n Eruption. <i>Frontiers in Earth Science</i> , 2016, 4, .	1.8	50
3	Early Miocene K�rka-Phrigian Caldera, western Turkey (Eski�ehir province), preliminary volcanology, age and geochemistry data. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 327, 503-519.	2.1	14
4	Characterization of moderate ash�and�gas explosions at Santiaguito volcano, Guatemala, from infrasound waveform inversion and thermal infrared measurements. <i>Geophysical Research Letters</i> , 2016, 43, 6220-6227.	4.0	40
5	General Approach To Construct Photoresponsive Self-Assembly in a Light-Inert Amphiphilic System. <i>Langmuir</i> , 2016, 32, 11973-11979.	3.5	13
6	From rock to magma and back again: The evolution of temperature and deformation mechanism in conduit margin zones. <i>Earth and Planetary Science Letters</i> , 2017, 463, 92-100.	4.4	54
7	Crystal-rich lava dome extrusion during vesiculation: An experimental study. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 347, 1-14.	2.1	34
8	Crystal plasticity as an indicator of the viscous-brittle transition in magmas. <i>Nature Communications</i> , 2017, 8, 1926.	12.8	21
9	In situ confirmation of permeability development in shearing bubble-bearing melts and implications for volcanic outgassing. <i>Earth and Planetary Science Letters</i> , 2017, 458, 315-326.	4.4	58
10	Tuffaceous Mud is a Volumetrically Important Volcaniclastic Facies of Submarine Arc Volcanism and Record of Climate Change. <i>Geochemistry, Geophysics, Geosystems</i> , 2018, 19, 1217-1243.	2.5	19
11	Correction scheme for point-particle models applied to a nonlinear drag law in simulations of particle-fluid interaction. <i>International Journal of Multiphase Flow</i> , 2018, 101, 74-84.	3.4	56
12	Combined effusive-explosive silicic volcanism straddles the multiphase viscous-to-brittle transition. <i>Nature Communications</i> , 2018, 9, 4696.	12.8	39
13	Quantification of ash sedimentation dynamics through depolarisation imaging with AshCam. <i>Scientific Reports</i> , 2018, 8, 15680.	3.3	2
14	Vesiculation and Quenching During Surtseyan Eruptions at Hunga Tonga�Hunga Ha'apai Volcano, Tonga. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 3762-3779.	3.4	34
15	Controls on explosive-effusive volcanic eruption styles. <i>Nature Communications</i> , 2018, 9, 2839.	12.8	262
16	Textural Insights Into the Evolving Lava Dome Cycles at Santiaguito Lava Dome, Guatemala. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	32
17	Conduit dynamics of highly explosive basaltic eruptions: The 1085�CE Sunset Crater sub-Plinian events. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 387, 106658.	2.1	26
18	Unusual fluidal behavior of a silicic magma during fragmentation in a deep subaqueous eruption, Havre volcano, southwestern Pacific Ocean. <i>Geology</i> , 2019, 47, 487-490.	4.4	11

#	ARTICLE	IF	CITATIONS
19	Brittle–Ductile Deformation and Tensile Rupture of Dome Lava During Inflation at Santiaguito, Guatemala. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 10107-10131.	3.4	24
20	Phase partitioning during fragmentation revealed by QEMSCAN Particle Mineralogical Analysis of volcanic ash. <i>Scientific Reports</i> , 2019, 9, 126.	3.3	18
21	Disruption of Long-Term Effusive-Explosive Activity at Santiaguito, Guatemala. <i>Frontiers in Earth Science</i> , 2019, 6, .	1.8	21
22	Frictional melt homogenisation during fault slip: Geochemical, textural and rheological fingerprints. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 255, 265-288.	3.9	11
23	Petrological Architecture of a Magmatic Shear Zone: A Multidisciplinary Investigation of Strain Localisation During Magma Ascent at Unzen Volcano, Japan. <i>Journal of Petrology</i> , 2019, 60, 791-826.	2.8	24
24	Volc�n de Colima. <i>Active Volcanoes of the World</i> , 2019, , .	1.4	9
25	The Fragility of Volc�n de Colima–A Material Constraint. <i>Active Volcanoes of the World</i> , 2019, , 241-266.	1.4	6
26	Statistical evidence of transitioning open-vent activity towards a paroxysmal period at Volc�n Santiaguito (Guatemala) during 2014–2018. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 398, 106891.	2.1	5
27	An experimentally validated numerical model for bubble growth in magma. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 402, 107002.	2.1	11
28	Rheological change and degassing during a trachytic Vulcanian eruption at Kilian Volcano, Cha�ne des Puy, France. <i>Bulletin of Volcanology</i> , 2020, 82, 1.	3.0	3
29	Post-volcanic activities in the Early Miocene K�rka-Phrigian caldera, western Anatolia – caldera basin filling and borate mineralization processes. <i>International Geology Review</i> , 2021, 63, 1719-1736.	2.1	3
30	Post-fragmentation vesiculation timescales in hydrous rhyolitic bombs from Chait�n volcano. <i>Journal of South American Earth Sciences</i> , 2020, 104, 102807.	1.4	8
31	In situ observation of the percolation threshold in multiphase magma analogues. <i>Bulletin of Volcanology</i> , 2020, 82, 32.	3.0	21
32	Integrated constraints on explosive eruption intensification at Santiaguito dome complex, Guatemala. <i>Earth and Planetary Science Letters</i> , 2020, 536, 116139.	4.4	15
33	A review of the physical and mechanical properties of volcanic rocks and magmas in the brittle and ductile regimes. , 2021, , 153-238.		8
34	Micro-Textural Controls on Magma Rheology and Vulcanian Explosion Cyclicity. <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	9
35	Source Mechanism of Seismic Explosion Signals at Santiaguito Volcano, Guatemala: New Insights From Seismic Analysis and Numerical Modeling. <i>Frontiers in Earth Science</i> , 2021, 8, .	1.8	2
36	Volcanic emission and seismic tremor at Santiaguito, Guatemala: New insights from long-term seismic, infrasound and thermal measurements in 2018–2020. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 411, 107154.	2.1	6

#	ARTICLE	IF	CITATIONS
37	Comparison of Bubble Shape Model Results With Textural Analysis: Implications for the Velocity Profile Across a Volcanic Conduit. <i>Journal of Geophysical Research: Solid Earth</i> , 2021, 126, e2021JB021841.	3.4	4
38	Pre-eruptive conditions at satellite vent eruptions at Teide-Pico Viejo complex (Tenerife, Canary) <i>Tj ETQq1 1 0.784314 rgBT /Qverlock 10</i>	1.4	4
39	The roles of microlites and phenocrysts during degassing of silicic magma. <i>Earth and Planetary Science Letters</i> , 2022, 577, 117264.	4.4	10
40	Direct nanoscale observations of degassing-induced crystallisation in felsic magmas. <i>Contributions To Mineralogy and Petrology</i> , 2022, 177, 1.	3.1	7
43	Strain Localization in Magmas. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 721-765.	4.8	6
44	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.	2.8	0
45	Frictional Melting in Magma and Lava. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 919-963.	4.8	2
46	Detecting multiscale periodicity from the secular effusive activity at Santiaguito lava dome complex (Guatemala). <i>Earth, Planets and Space</i> , 2022, 74, .	2.5	0
47	Complex decompression and fragmentation of mingled andesite magmas driving multi-phase Plinian eruptions at Mt. Taranaki, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2023, 433, 107728.	2.1	1
48	Bouncing Spallation Bombs During the 2021 La Palma Eruption, Canary Islands, Spain. <i>Earth Science, Systems and Society</i> , 0, 2, .	0.0	3
49	Analytical model of small fluctuations of compressible magma with Maxwell rheology in the feeding system of a volcano. Part 1. Density oscillations. <i>Russian Journal of Earth Sciences</i> , 2023, , 1-14.	0.7	0
50	H ₂ O degassing triggered by alkali depletion in bimodal magma injection processes – a new experimental approach. <i>European Journal of Mineralogy</i> , 2023, 35, 613-633.	1.3	0
52	Oxide nanolite-induced melt iron extraction causes viscosity jumps and enhanced explosivity in silicic magma. <i>Nature Communications</i> , 2024, 15, .	12.8	1