

Donald B Dingwell

List of Publications by Year in descending order

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Version: 2024-02-01

451
papers

23,952
citations

8181

76
h-index

15266

126
g-index

471
all docs

471
docs citations

471
times ranked

8299
citing authors

#	ARTICLE	IF	CITATIONS
1	Surface roughness affects metastable non-wetting behavior of silicate melts on thermal barrier coatings. <i>Rare Metals</i> , 2022, 41, 469-481.	7.1	18
2	The roles of microlites and phenocrysts during degassing of silicic magma. <i>Earth and Planetary Science Letters</i> , 2022, 577, 117264.	4.4	10
3	Silicate ash-resistant novel thermal barrier coatings in gas turbines. <i>Corrosion Science</i> , 2022, 194, 109929.	6.6	12
4	The effect of halogens (F, Cl) on the near-liquidus crystallinity of a hydrous trachyte melt. <i>American Mineralogist</i> , 2022, 107, 1007-1017.	1.9	4
5	A feedback mechanism between crystals and bubbles in a RuO ₂ -bearing melt. <i>Journal of Non-Crystalline Solids</i> , 2022, 582, 121456.	3.1	5
6	Pre-Eruptive Conditions and Dynamics Recorded in Banded Pumices from the El Abrigo Caldera-Forming Eruption (Tenerife, Canary Islands). <i>Journal of Petrology</i> , 2022, 63, .	2.8	6
7	Vesiculation of Rhyolitic Melts Under Oscillatory Pressure. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	2
8	A novel method for the quantitative morphometric characterization of soluble salts on volcanic ash. <i>Bulletin of Volcanology</i> , 2022, 84, 1.	3.0	4
9	Universal scaling for the permeability of random packs of overlapping and nonoverlapping particles. <i>Physical Review E</i> , 2022, 105, L043301.	2.1	2
10	Magma Fragmentation. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 767-800.	4.8	8
11	Models for Viscosity of Geological Melts. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 841-885.	4.8	8
12	Decrypting Magma Mixing in Igneous Systems. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 607-638.	4.8	9
13	Magma / Suspension Rheology. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 639-720.	4.8	18
14	Hot Sintering of Melts, Glasses and Magmas. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 801-840.	4.8	4
15	Inflated pyroclasts in proximal fallout deposits reveal abrupt transitions in eruption behaviour. <i>Nature Communications</i> , 2022, 13, .	12.8	4
16	Interparticle and Brownian forces controlling particle aggregation and rheology of silicate melts containing platinum-group element particles. <i>Scientific Reports</i> , 2022, 12, .	3.3	6
17	Using obsidian in glass art practice. <i>Volcanica</i> , 2022, 5, 183-207.	1.8	1
18	Dynamic melting behavior of volcanic ash subjected to thermal shock relevant to aviation hazards. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 429, 107597.	2.1	0

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19	Complex geometry of volcanic vents and asymmetric particle ejection: experimental insights. <i>Bulletin of Volcanology</i> , 2022, 84, .	3.0	3
20	The influence of thermal barrier coating dissolution on CMAS melt viscosities. <i>Journal of the European Ceramic Society</i> , 2021, 41, 2746-2752.	5.7	14
21	A model for permeability evolution during volcanic welding. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 409, 107118.	2.1	18
22	Host Rock Variability Powers the Diversity of Steam-Driven Eruptions. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL089025.	4.0	3
23	From melt to crystals: The effects of cooling on Fe Ti oxide nanolites crystallisation and melt polymerisation at oxidising conditions. <i>Chemical Geology</i> , 2021, 563, 120057.	3.3	16
24	Petrophysical characterisation of volcanic ejecta to constrain subsurface lithological heterogeneities: implications for edifice stability at basaltic volcanoes. <i>Volcanica</i> , 2021, 4, 41-66.	1.8	4
25	Rapid alteration of fractured volcanic conduits beneath Mt Unzen. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	6
26	Earthquakes indicated magma viscosity during K�lauea�s 2018 eruption. <i>Nature</i> , 2021, 592, 237-241.	27.8	15
27	Plasma sprayed 18mol% YO1.5 stabilized hafnia as potential thermal barrier coating. <i>Ceramics International</i> , 2021, 47, 14515-14526.	4.8	27
28	Tailoring the initial characterization of fully stabilized HfO2 with Y2O3/Ta2O5. <i>Journal of Alloys and Compounds</i> , 2021, 867, 159113.	5.5	10
29	Permeability of packs of polydisperse hard spheres. <i>Physical Review E</i> , 2021, 103, 062613.	2.1	13
30	Characterising vent and crater shape changes at Stromboli: implications for risk areas. <i>Volcanica</i> , 2021, 4, 87-105.	1.8	17
31	India-Asia collision as a driver of atmospheric CO2 in the Cenozoic. <i>Nature Communications</i> , 2021, 12, 3891.	12.8	43
32	Linking gas and particle ejection dynamics to boundary conditions in scaled shock-tube experiments. <i>Bulletin of Volcanology</i> , 2021, 83, 53.	3.0	4
33	The force required to operate the plunger on a French press. <i>American Journal of Physics</i> , 2021, 89, 769-775.	0.7	6
34	Heat flows in rock cracks naturally optimize salt compositions for ribozymes. <i>Nature Chemistry</i> , 2021, 13, 1038-1045.	13.6	16
35	A model for the kinetics of high-temperature reactions between polydisperse volcanic ash and SO2 gas. <i>American Mineralogist</i> , 2021, 106, 1319-1332.	1.9	4
36	The Influence of Chemical and Mineral Compositions on the Parameterization of Immersion Freezing by Volcanic Ash Particles. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033356.	3.3	6

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37	Long-term observation of electrical discharges during persistent Vulcanian activity. Earth and Planetary Science Letters, 2021, 570, 117084.	4.4	6
38	Degassing and gas percolation in basaltic magmas. Earth and Planetary Science Letters, 2021, 573, 117134.	4.4	16
39	Stratigraphic reconstruction of the VĀti breccia at Krafla volcano (Iceland): insights into pre-eruptive conditions priming explosive eruptions in geothermal areas. Bulletin of Volcanology, 2021, 83, 81.	3.0	6
40	A calibrated database of Raman spectra for natural silicate glasses: implications for modelling melt physical properties. Journal of Raman Spectroscopy, 2020, 51, 1822-1838.	2.5	16
41	Determination of permeability using a classic Darcy water column. American Journal of Physics, 2020, 88, 20-24.	0.7	12
42	Volcanic ash ice-nucleating activity can be enhanced or depressed by ash-gas interaction in the eruption plume. Earth and Planetary Science Letters, 2020, 551, 116587.	4.4	14
43	Release characteristics of overpressurised gas from complex vents: implications for volcanic hazards. Bulletin of Volcanology, 2020, 82, 68.	3.0	8
44	Rheological change and degassing during a trachytic Vulcanian eruption at Kilian Volcano, ChaĀne des Puys, France. Bulletin of Volcanology, 2020, 82, 1.	3.0	3
45	Effects of the dissolution of thermal barrier coating materials on the viscosity of remelted volcanic ash. American Mineralogist, 2020, 105, 1104-1107.	1.9	8
46	Determination of water speciation in hydrous haplogranitic glasses with partial Raman spectra. Chemical Geology, 2020, 553, 119793.	3.3	4
47	A Raman spectroscopic tool to estimate chemical composition of natural volcanic glasses. Chemical Geology, 2020, 556, 119819.	3.3	17
48	Hydrothermal eruption dynamics reflecting vertical variations in host rock geology and geothermal alteration, Champagne Pool, Wai-o-tapu, New Zealand. Bulletin of Volcanology, 2020, 82, 1.	3.0	14
49	Quantifying Microstructural Evolution in Moving Magma. Frontiers in Earth Science, 2020, 8, .	1.8	11
50	Raman Spectroscopy from Laboratory and Proximal to Remote Sensing: A Tool for the Volcanological Sciences. Remote Sensing, 2020, 12, 805.	4.0	13
51	Can nanolites enhance eruption explosivity?. Geology, 2020, 48, 997-1001.	4.4	43
52	Thermophysical properties and cyclic lifetime of plasma sprayed SrAl ₁₂ O ₁₉ for thermal barrier coating applications. Journal of the American Ceramic Society, 2020, 103, 5599-5611.	3.8	74
53	Permeability of polydisperse magma foam. Geology, 2020, 48, 536-540.	4.4	17
54	In situ observation of the percolation threshold in multiphase magma analogues. Bulletin of Volcanology, 2020, 82, 32.	3.0	21

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55	Novel thermal barrier coatings with hexagonal boron nitride additives resistant to molten volcanic ash wetting. <i>Corrosion Science</i> , 2020, 168, 108587.	6.6	12
56	Geochemistry and petrogenesis of the post-collisional high-K calc-alkaline magmatic rocks in Tengchong, SE Tibet. <i>Journal of Asian Earth Sciences</i> , 2020, 193, 104309.	2.3	8
57	Disequilibrium Rheology and Crystallization Kinetics of Basalts and Implications for the Phlegrean Volcanic District. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	18
58	Influence of molten volcanic ash infiltration on the friability of APS thermal barrier coatings. <i>Ceramics International</i> , 2020, 46, 11364-11371.	4.8	14
59	Dynamic spreading of re-melted volcanic ash bead on thermal barrier coatings. <i>Corrosion Science</i> , 2020, 170, 108659.	6.6	23
60	Experimental constraints on volcanic ash generation and clast morphometrics in pyroclastic density currents and granular flows. <i>Volcanica</i> , 2020, 3, 263-283.	1.8	15
61	Heated gas bubbles enrich, crystallize, dry, phosphorylate and encapsulate prebiotic molecules. <i>Nature Chemistry</i> , 2019, 11, 779-788.	13.6	66
62	Diversity of soluble salt concentrations on volcanic ash aggregates from a variety of eruption types and deposits. <i>Bulletin of Volcanology</i> , 2019, 81, 1.	3.0	9
63	Assessment of the potential for in-plume sulphur dioxide gas-ash interactions to influence the respiratory toxicity of volcanic ash. <i>Environmental Research</i> , 2019, 179, 108798.	7.5	12
64	Diffusion of F and Cl in dry rhyodacitic melt. <i>American Mineralogist</i> , 2019, 104, 1689-1699.	1.9	6
65	<i>in situ</i> granulation by thermal stress during subaqueous volcanic eruptions. <i>Geology</i> , 2019, 47, 179-182.	4.4	12
66	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.	4.4	30
67	Electrification of Experimental Volcanic Jets with Varying Water Content and Temperature. <i>Geophysical Research Letters</i> , 2019, 46, 11136-11145.	4.0	16
68	Microstructures and Properties of Sm ₂ (Zr _{0.7} Ce _{0.3}) ₂ O ₇ /8YSZ Double-Ceramic-Layer Thermal Barrier Coatings Deposited by Atmospheric Plasma Spraying. <i>Journal of Thermal Spray Technology</i> , 2019, 28, 986-999.	3.1	9
69	The importance of crystalline phases in ice nucleation by volcanic ash. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5451-5465.	4.9	21
70	Hydrothermal eruptions at unstable crater lakes: Insights from the Boiling Lake, Dominica, Lesser Antilles. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 381, 101-118.	2.1	4
71	SO ₂ scrubbing during percolation through rhyolitic volcanic domes. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 257, 150-162.	3.9	16
72	Experimental study of monazite solubility in haplogranitic melts: a new model for peraluminous and peralkaline melts. <i>European Journal of Mineralogy</i> , 2019, 31, 49-59.	1.3	7

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73	Frictional melt homogenisation during fault slip: Geochemical, textural and rheological fingerprints. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 255, 265-288.	3.9	11
74	Volcanic ash generation: Effects of componentry, particle size and conduit geometry on size-reduction processes. <i>Earth and Planetary Science Letters</i> , 2019, 514, 13-27.	4.4	6
75	Impact interaction of in-flight high-energy molten volcanic ash droplets with jet engines. <i>Acta Materialia</i> , 2019, 171, 119-131.	7.9	37
76	Mineralogical and thermal characterization of a volcanic ash: Implications for turbine interaction. <i>Journal of Volcanology and Geothermal Research</i> , 2019, 377, 43-52.	2.1	12
77	The Fragility of Volcãn de Colimaã A Material Constraint. <i>Active Volcanoes of the World</i> , 2019, , 241-266.	1.4	6
78	Estimation of CMAS infiltration depth in EB-PVD TBCs: A new constraint model supported with experimental approach. <i>Journal of the European Ceramic Society</i> , 2019, 39, 2936-2945.	5.7	35
79	Novel thermal barrier coatings repel and resist molten silicate deposits. <i>Scripta Materialia</i> , 2019, 163, 71-76.	5.2	56
80	Pyroclastic dune bedforms: macroscale structures and lateral variations. Examples from the 2006 pyroclastic currents at Tungurahua (Ecuador). <i>Sedimentology</i> , 2019, 66, 1531-1559.	3.1	16
81	Fragmentation behavior of eruptive products of Popocatãpetl volcano: an experimental contribution. <i>Geofisica Internacional</i> , 2019, 58, 49-72.	0.2	1
82	Flow and fragmentation patterns in the silicic feeder system and related deposits in the Paranã-Etendeka Magmatic Province, São Marcos, South Brazil. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 358, 149-164.	2.1	10
83	Aggregation in particle rich environments: a textural study of examples from volcanic eruptions, meteorite impacts, and fluidized bed processing. <i>Bulletin of Volcanology</i> , 2018, 80, 32.	3.0	11
84	The effect of oxygen fugacity on the rheological evolution of crystallizing basaltic melts. <i>Earth and Planetary Science Letters</i> , 2018, 487, 21-32.	4.4	57
85	The effect of inflation on the morphology-derived rheological parameters of lava flows and its implications for interpreting remote sensing data - A case study on the 2014/2015 eruption at Holuhraun, Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2018, 357, 200-212.	2.1	20
86	Forecasting Multiphase Magma Failure at the Laboratory Scale Using Acoustic Emission Data. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	3
87	Combined effusive-explosive silicic volcanism straddles the multiphase viscous-to-brittle transition. <i>Nature Communications</i> , 2018, 9, 4696.	12.8	39
88	Revisiting the lacquer peels method with pyroclastic deposits: sediment plates, a precise, fine scale imaging method and powerful outreach tool. <i>Journal of Applied Volcanology</i> , 2018, 7, .	2.0	4
89	Cooling rates of lunar orange glass beads. <i>Earth and Planetary Science Letters</i> , 2018, 503, 88-94.	4.4	19
90	Vesiculation and Quenching During Surtseyan Eruptions at Hunga TongaãHunga Ha'apai Volcano, Tonga. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 3762-3779.	3.4	34

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91	Shear Rate-Dependent Disequilibrium Rheology and Dynamics of Basalt Solidification. <i>Geophysical Research Letters</i> , 2018, 45, 6466-6475.	4.0	39
92	The effect of diffusive re-equilibration time on trace element partitioning between alkali feldspar and trachytic melts. <i>Chemical Geology</i> , 2018, 495, 50-66.	3.3	16
93	Trashcano: Developing a quantitative teaching tool to understand ballistics accelerated by explosive volcanic eruptions. <i>Volcanica</i> , 2018, 1, 107-126.	1.8	2
94	Intrinsic proton dynamics in hydrous silicate melts as seen by quasielastic neutron scattering at elevated temperature and pressure. <i>Chemical Geology</i> , 2017, 461, 152-159.	3.3	5
95	Local geology controlled the feasibility of vitrifying Iron Age buildings. <i>Scientific Reports</i> , 2017, 7, 40028.	3.3	7
96	Volcanic ash supports a diverse bacterial community in a marine mesocosm. <i>Geobiology</i> , 2017, 15, 453-463.	2.4	19
97	Wetting and Spreading of Molten Volcanic Ash in Jet Engines. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1878-1884.	4.6	45
98	Effect of oxygen fugacity on the glass transition, viscosity and structure of silica- and iron-rich magmatic melts. <i>Journal of Non-Crystalline Solids</i> , 2017, 470, 78-85.	3.1	42
99	The rheological evolution of the 2014/2015 eruption at Holuhraun, central Iceland. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	45
100	A Branched Magma Feeder System during the 1669 Eruption of Mt Etna: Evidence from a Time-integrated Study of Zoned Olivine Phenocryst Populations. <i>Journal of Petrology</i> , 2017, 58, 443-472.	2.8	35
101	A viscous-to-brittle transition in eruptions through clay suspensions. <i>Geophysical Research Letters</i> , 2017, 44, 4806-4813.	4.0	3
102	Time-series analysis of fissure-fed multi-vent activity: a snapshot from the July 2014 eruption of Etna volcano (Italy). <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	16
103	Ash aggregation enhanced by deposition and redistribution of salt on the surface of volcanic ash in eruption plumes. <i>Scientific Reports</i> , 2017, 7, 45762.	3.3	23
104	Sintering of polydisperse viscous droplets. <i>Physical Review E</i> , 2017, 95, 033114.	2.1	22
105	Size limits for rounding of volcanic ash particles heated by lightning. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 1977-1989.	3.4	30
106	The evolution of pore connectivity in volcanic rocks. <i>Earth and Planetary Science Letters</i> , 2017, 462, 99-109.	4.4	96
107	A multidisciplinary approach to quantify the permeability of the Whakaari/White Island volcanic hydrothermal system (Taupo Volcanic Zone, New Zealand). <i>Journal of Volcanology and Geothermal Research</i> , 2017, 332, 88-108.	2.1	92
108	Topological inversions in coalescing granular media control fluid-flow regimes. <i>Physical Review E</i> , 2017, 96, 033113.	2.1	39

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109	Stability of volcanic ash aggregates and break-up processes. <i>Scientific Reports</i> , 2017, 7, 7440.	3.3	28
110	Does an inter-flaw length control the accuracy of rupture forecasting in geological materials?. <i>Earth and Planetary Science Letters</i> , 2017, 475, 181-189.	4.4	39
111	A compositional tipping point governing the mobilization and eruption style of rhyolitic magma. <i>Nature</i> , 2017, 552, 235-238.	27.8	77
112	Crystal plasticity as an indicator of the viscous-brittle transition in magmas. <i>Nature Communications</i> , 2017, 8, 1926.	12.8	21
113	Magma Mixing: History and Dynamics of an Eruption Trigger. <i>Advances in Volcanology</i> , 2017, , 123-137.	1.1	17
114	Phreatic activity and hydrothermal alteration in the Valley of Desolation, Dominica, Lesser Antilles. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	22
115	When Does Magma Break?. <i>Advances in Volcanology</i> , 2017, , 171-184.	1.1	6
116	The dynamics of volcanic jets: Temporal evolution of particles exit velocity from shock-tube experiments. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 6031-6045.	3.4	30
117	Hydrothermal activity and subsoil complexity: implication for degassing processes at Solfatara crater, Campi Flegrei caldera. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	3.0	11
118	Volcanic Ash Activates the NLRP3 Inflammasome in Murine and Human Macrophages. <i>Frontiers in Immunology</i> , 2017, 8, 2000.	4.8	25
119	Eruptive shearing of tube pumice: pure and simple. <i>Solid Earth</i> , 2016, 7, 1383-1393.	2.8	22
120	Universal scaling of fluid permeability during volcanic welding and sediment diagenesis. <i>Geology</i> , 2016, 44, 219-222.	4.4	74
121	The propagation and seismicity of dyke injection, new experimental evidence. <i>Geophysical Research Letters</i> , 2016, 43, 1876-1883.	4.0	14
122	Multiparametric observation of volcanic lightning: Sakurajima Volcano, Japan. <i>Geophysical Research Letters</i> , 2016, 43, 4221-4228.	4.0	50
123	An advanced rotational rheometer system for extremely fluid liquids up to 1273 K and applications to alkali carbonate melts. <i>American Mineralogist</i> , 2016, 101, 953-959.	1.9	17
124	Multidisciplinary constraints of hydrothermal explosions based on the 2013 Gengissig lake events, Kverkfjall volcano, Iceland. <i>Earth and Planetary Science Letters</i> , 2016, 434, 308-319.	4.4	38
125	The Grizzly Lake complex (Yellowstone Volcano, USA): Mixing between basalt and rhyolite unraveled by microanalysis and X-ray microtomography. <i>Lithos</i> , 2016, 260, 457-474.	1.4	26
126	Models for the estimation of Fe^{3+}/Fe^{tot} ratio in terrestrial and extraterrestrial alkali- and iron-rich silicate glasses using Raman spectroscopy. <i>American Mineralogist</i> , 2016, 101, 943-952.	1.9	48

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127	Hydrothermal alteration of surficial rocks at Solfatara (Campi Flegrei): Petrophysical properties and implications for phreatic eruption processes. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 320, 128-143.	2.1	65
128	Experimental estimates of the energy budget of hydrothermal eruptions; application to 2012 Upper Te Maari eruption, New Zealand. <i>Earth and Planetary Science Letters</i> , 2016, 452, 281-294.	4.4	17
129	In situ thermal characterization of cooling/crystallizing lavas during rheology measurements and implications for lava flow emplacement. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 195, 244-258.	3.9	51
130	Raman spectra of Martian glass analogues: A tool to approximate their chemical composition. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 740-752.	3.6	27
131	Experimental investigations on the explosivity of steam-driven eruptions: A case study of Solfatara volcano (Campi Flegrei). <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 7996-8014.	3.4	38
132	Time scales of foam stability in shallow conduits: Insights from analogue experiments. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4179-4194.	2.5	13
133	Magma mixing induced by particle settling. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 96.	3.1	15
134	Volcanic ash melting under conditions relevant to ash turbine interactions. <i>Nature Communications</i> , 2016, 7, 10795.	12.8	113
135	The Peacock Medal For 2015 To Donald Bruce Dingwell. <i>Canadian Mineralogist</i> , 2016, 54, 781-783.	1.0	0
136	Sintering of viscous droplets under surface tension. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20150780.	2.1	47
137	On the slow decompressive response of volatile- and crystal-bearing magmas: An analogue experimental investigation. <i>Earth and Planetary Science Letters</i> , 2016, 433, 44-53.	4.4	31
138	Physical properties of volcanic lightning: Constraints from magnetotelluric and video observations at Sakurajima volcano, Japan. <i>Earth and Planetary Science Letters</i> , 2016, 444, 45-55.	4.4	38
139	Conduit margin heating and deformation during the AD 1886 basaltic Plinian eruption at Tarawera volcano, New Zealand. <i>Bulletin of Volcanology</i> , 2016, 78, 12.	3.0	18
140	Dynamic elastic moduli during isotropic densification of initially granular media. <i>Geophysical Journal International</i> , 2016, 204, 1721-1728.	2.4	9
141	Friendly fire: Engineering a fort wall in the Iron Age. <i>Journal of Archaeological Science</i> , 2016, 67, 7-13.	2.4	9
142	Experimental volcanic ash aggregation: Internal structuring of accretionary lapilli and the role of liquid bonding. <i>Earth and Planetary Science Letters</i> , 2016, 433, 232-240.	4.4	26
143	Surface tension driven processes densify and retain permeability in magma and lava. <i>Earth and Planetary Science Letters</i> , 2016, 433, 116-124.	4.4	63
144	The feasibility of vitrifying a sandstone enclosure in the British Iron Age. <i>Journal of Archaeological Science: Reports</i> , 2015, 4, 605-612.	0.5	2

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145	Viscosity measurements of crystallizing andesite from <sc>T</sc> ungarahua volcano () Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50	2.5	61
146	Spine growth and seismogenic faulting at Mt. Unzen, Japan. Journal of Geophysical Research: Solid Earth, 2015, 120, 4034-4054.	3.4	36
147	Permeability of compacting porous lavas. Journal of Geophysical Research: Solid Earth, 2015, 120, 1605-1622.	3.4	46
148	Heterogeneity: The key to failure forecasting. Scientific Reports, 2015, 5, 13259.	3.3	94
149	Vesiculation in rhyolite at low <sc>H</sc> ₂ <sc>O</sc> contents: A thermodynamic model. Geochemistry, Geophysics, Geosystems, 2015, 16, 4292-4310.	2.5	9
150	Concentration variance decay during magma mixing: a volcanic chronometer. Scientific Reports, 2015, 5, 14225.	3.3	39
151	Variability in composition and physical properties of the sedimentary basement of Mt Etna, Italy. Journal of Volcanology and Geothermal Research, 2015, 302, 102-116.	2.1	11
152	A novel apparatus for the simulation of eruptive gas-rock interactions. Bulletin of Volcanology, 2015, 77, 1.	3.0	6
153	Analysis of source characteristics of experimental gas burst and fragmentation explosions generated by rapid decompression of volcanic rocks. Journal of Geophysical Research: Solid Earth, 2015, 120, 5104-5116.	3.4	12
154	Syn-eruptive, soft-sediment deformation of deposits from dilute pyroclastic density current: triggers from granular shear, dynamic pore pressure, ballistic impacts and shock waves. Solid Earth, 2015, 6, 553-572.	2.8	24
155	Magma mixing enhanced by bubble segregation. Solid Earth, 2015, 6, 1007-1023.	2.8	17
156	Eruption and emplacement timescales of ignimbrite super-eruptions from thermo-kinetics of glass shards. Frontiers in Earth Science, 2015, 3, .	1.8	10
157	Spherulites as in-situ recorders of thermal history in lava flows. Geology, 2015, 43, 647-650.	4.4	18
158	Thermal vesiculation during volcanic eruptions. Nature, 2015, 528, 544-547.	27.8	52
159	Mechanical behaviour and failure modes in the Whakaari (White Island volcano) hydrothermal system, New Zealand. Journal of Volcanology and Geothermal Research, 2015, 295, 26-42.	2.1	101
160	The effect of the [Na/(Na+K)] ratio on Fe speciation in phonolitic glasses. American Mineralogist, 2015, 100, 1610-1619.	1.9	30
161	Experimental constraints on phreatic eruption processes at Whakaari (White Island volcano). Journal of Volcanology and Geothermal Research, 2015, 302, 150-162.	2.1	47
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