

# Donald B Dingwell

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3991453/publications.pdf>

Version: 2024-02-01

450  
papers

23,952  
citations

8172

76  
h-index

15249

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.	3.6	18
2	The roles of microlites and phenocrysts during degassing of silicic magma. <i>Earth and Planetary Science Letters</i> , 2022, 577, 117264.	1.8	10
3	Silicate ash-resistant novel thermal barrier coatings in gas turbines. <i>Corrosion Science</i> , 2022, 194, 109929.	3.0	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.	0.9	4
5	A feedback mechanism between crystals and bubbles in a RuO <sub>2</sub> -bearing melt. <i>Journal of Non-Crystalline Solids</i> , 2022, 582, 121456.	1.5	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, .	1.1	6
7	Vesiculation of Rhyolitic Melts Under Oscillatory Pressure. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	2
8	A novel method for the quantitative morphometric characterization of soluble salts on volcanic ash. <i>Bulletin of Volcanology</i> , 2022, 84, 1.	1.1	4
9	Universal scaling for the permeability of random packs of overlapping and nonoverlapping particles. <i>Physical Review E</i> , 2022, 105, L043301.	0.8	2
10	Magma Fragmentation. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 767-800.	2.2	8
11	Models for Viscosity of Geological Melts. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 841-885.	2.2	8
12	Decrypting Magma Mixing in Igneous Systems. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 607-638.	2.2	9
13	Magma / Suspension Rheology. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 639-720.	2.2	18
14	Hot Sintering of Melts, Glasses and Magmas. <i>Reviews in Mineralogy and Geochemistry</i> , 2022, 87, 801-840.	2.2	4
15	Inflated pyroclasts in proximal fallout deposits reveal abrupt transitions in eruption behaviour. <i>Nature Communications</i> , 2022, 13, .	5.8	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, .	1.6	6
17	Using obsidian in glass art practice. <i>Volcanica</i> , 2022, 5, 183-207.	0.6	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.	0.8	0

#	ARTICLE	IF	CITATIONS
19	Complex geometry of volcanic vents and asymmetric particle ejection: experimental insights. <i>Bulletin of Volcanology</i> , 2022, 84, .	1.1	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.	2.8	14
21	A model for permeability evolution during volcanic welding. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 409, 107118.	0.8	18
22	Host Rock Variability Powers the Diversity of Steam-Driven Eruptions. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL089025.	1.5	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.	1.4	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.	0.6	4
25	Rapid alteration of fractured volcanic conduits beneath Mt Unzen. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	1.1	6
26	Earthquakes indicated magma viscosity during K�lauea's 2018 eruption. <i>Nature</i> , 2021, 592, 237-241.	13.7	15
27	Plasma sprayed 18mol% YO1.5 stabilized hafnia as potential thermal barrier coating. <i>Ceramics International</i> , 2021, 47, 14515-14526.	2.3	27
28	Tailoring the initial characterization of fully stabilized HfO2 with Y2O3/Ta2O5. <i>Journal of Alloys and Compounds</i> , 2021, 867, 159113.	2.8	10
29	Permeability of packs of polydisperse hard spheres. <i>Physical Review E</i> , 2021, 103, 062613.	0.8	13
30	Characterising vent and crater shape changes at Stromboli: implications for risk areas. <i>Volcanica</i> , 2021, 4, 87-105.	0.6	17
31	India-Asia collision as a driver of atmospheric CO2 in the Cenozoic. <i>Nature Communications</i> , 2021, 12, 3891.	5.8	43
32	Linking gas and particle ejection dynamics to boundary conditions in scaled shock-tube experiments. <i>Bulletin of Volcanology</i> , 2021, 83, 53.	1.1	4
33	The force required to operate the plunger on a French press. <i>American Journal of Physics</i> , 2021, 89, 769-775.	0.3	6
34	Heat flows in rock cracks naturally optimize salt compositions for ribozymes. <i>Nature Chemistry</i> , 2021, 13, 1038-1045.	6.6	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.	0.9	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.	1.2	6

#	ARTICLE	IF	CITATIONS
37	Long-term observation of electrical discharges during persistent Vulcanian activity. Earth and Planetary Science Letters, 2021, 570, 117084.	1.8	6
38	Degassing and gas percolation in basaltic magmas. Earth and Planetary Science Letters, 2021, 573, 117134.	1.8	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.	1.1	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.	1.2	16
41	Determination of permeability using a classic Darcy water column. American Journal of Physics, 2020, 88, 20-24.	0.3	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.	1.8	14
43	Release characteristics of overpressurised gas from complex vents: implications for volcanic hazards. Bulletin of Volcanology, 2020, 82, 68.	1.1	8
44	Rheological change and degassing during a trachytic Vulcanian eruption at Kilian Volcano, ChaĀne des Puys, France. Bulletin of Volcanology, 2020, 82, 1.	1.1	3
45	Effects of the dissolution of thermal barrier coating materials on the viscosity of remelted volcanic ash. American Mineralogist, 2020, 105, 1104-1107.	0.9	8
46	Determination of water speciation in hydrous haplogranitic glasses with partial Raman spectra. Chemical Geology, 2020, 553, 119793.	1.4	4
47	A Raman spectroscopic tool to estimate chemical composition of natural volcanic glasses. Chemical Geology, 2020, 556, 119819.	1.4	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.	1.1	14
49	Quantifying Microstructural Evolution in Moving Magma. Frontiers in Earth Science, 2020, 8, .	0.8	11
50	Raman Spectroscopy from Laboratory and Proximal to Remote Sensing: A Tool for the Volcanological Sciences. Remote Sensing, 2020, 12, 805.	1.8	13
51	Can nanolites enhance eruption explosivity?. Geology, 2020, 48, 997-1001.	2.0	43
52	Thermophysical properties and cyclic lifetime of plasma sprayed SrAl <sub>12</sub> O <sub>19</sub> for thermal barrier coating applications. Journal of the American Ceramic Society, 2020, 103, 5599-5611.	1.9	74
53	Permeability of polydisperse magma foam. Geology, 2020, 48, 536-540.	2.0	17
54	In situ observation of the percolation threshold in multiphase magma analogues. Bulletin of Volcanology, 2020, 82, 32.	1.1	21

#	ARTICLE	IF	CITATIONS
55	Novel thermal barrier coatings with hexagonal boron nitride additives resistant to molten volcanic ash wetting. <i>Corrosion Science</i> , 2020, 168, 108587.	3.0	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.	1.0	8
57	Disequilibrium Rheology and Crystallization Kinetics of Basalts and Implications for the Phlegrean Volcanic District. <i>Frontiers in Earth Science</i> , 2020, 8, .	0.8	18
58	Influence of molten volcanic ash infiltration on the friability of APS thermal barrier coatings. <i>Ceramics International</i> , 2020, 46, 11364-11371.	2.3	14
59	Dynamic spreading of re-melted volcanic ash bead on thermal barrier coatings. <i>Corrosion Science</i> , 2020, 170, 108659.	3.0	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.	0.6	15
61	Heated gas bubbles enrich, crystallize, dry, phosphorylate and encapsulate prebiotic molecules. <i>Nature Chemistry</i> , 2019, 11, 779-788.	6.6	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.	1.1	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.	3.7	12
64	Diffusion of F and Cl in dry rhyodacitic melt. <i>American Mineralogist</i> , 2019, 104, 1689-1699.	0.9	6
65	<i>in situ</i> granulation by thermal stress during subaqueous volcanic eruptions. <i>Geology</i> , 2019, 47, 179-182.	2.0	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.	1.8	30
67	Electrification of Experimental Volcanic Jets with Varying Water Content and Temperature. <i>Geophysical Research Letters</i> , 2019, 46, 11136-11145.	1.5	16
68	Microstructures and Properties of Sm <sub>2</sub> (Zr <sub>0.7</sub> Ce <sub>0.3</sub> ) <sub>2</sub> O <sub>7</sub> /8YSZ Double-Ceramic-Layer Thermal Barrier Coatings Deposited by Atmospheric Plasma Spraying. <i>Journal of Thermal Spray Technology</i> , 2019, 28, 986-999.	1.6	9
69	The importance of crystalline phases in ice nucleation by volcanic ash. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 5451-5465.	1.9	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.	0.8	4
71	SO <sub>2</sub> scrubbing during percolation through rhyolitic volcanic domes. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 257, 150-162.	1.6	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.	0.4	7

#	ARTICLE	IF	CITATIONS
73	Frictional melt homogenisation during fault slip: Geochemical, textural and rheological fingerprints. <i>Geochimica Et Cosmochimica Acta</i> , 2019, 255, 265-288.	1.6	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.	1.8	6
75	Impact interaction of in-flight high-energy molten volcanic ash droplets with jet engines. <i>Acta Materialia</i> , 2019, 171, 119-131.	3.8	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.	0.8	12
77	The Fragility of Volcãn de Colimaã A Material Constraint. <i>Active Volcanoes of the World</i> , 2019, , 241-266.	1.0	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.	2.8	35
79	Novel thermal barrier coatings repel and resist molten silicate deposits. <i>Scripta Materialia</i> , 2019, 163, 71-76.	2.6	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.	1.6	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.	0.8	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.	1.1	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.	1.8	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.	0.8	20
86	Forecasting Multiphase Magma Failure at the Laboratory Scale Using Acoustic Emission Data. <i>Frontiers in Earth Science</i> , 2018, 6, .	0.8	3
87	Combined effusive-explosive silicic volcanism straddles the multiphase viscous-to-brittle transition. <i>Nature Communications</i> , 2018, 9, 4696.	5.8	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, .	0.7	4
89	Cooling rates of lunar orange glass beads. <i>Earth and Planetary Science Letters</i> , 2018, 503, 88-94.	1.8	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.	1.4	34

#	ARTICLE	IF	CITATIONS
91	Shear Rate-Dependent Disequilibrium Rheology and Dynamics of Basalt Solidification. <i>Geophysical Research Letters</i> , 2018, 45, 6466-6475.	1.5	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.	1.4	16
93	Trashcano: Developing a quantitative teaching tool to understand ballistics accelerated by explosive volcanic eruptions. <i>Volcanica</i> , 2018, 1, 107-126.	0.6	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.	1.4	5
95	Local geology controlled the feasibility of vitrifying Iron Age buildings. <i>Scientific Reports</i> , 2017, 7, 40028.	1.6	7
96	Volcanic ash supports a diverse bacterial community in a marine mesocosm. <i>Geobiology</i> , 2017, 15, 453-463.	1.1	19
97	Wetting and Spreading of Molten Volcanic Ash in Jet Engines. <i>Journal of Physical Chemistry Letters</i> , 2017, 8, 1878-1884.	2.1	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.	1.5	42
99	The rheological evolution of the 2014/2015 eruption at Holuhraun, central Iceland. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	1.1	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.	1.1	35
101	A viscous-to-brittle transition in eruptions through clay suspensions. <i>Geophysical Research Letters</i> , 2017, 44, 4806-4813.	1.5	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.	1.1	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.	1.6	23
104	Sintering of polydisperse viscous droplets. <i>Physical Review E</i> , 2017, 95, 033114.	0.8	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.	1.4	30
106	The evolution of pore connectivity in volcanic rocks. <i>Earth and Planetary Science Letters</i> , 2017, 462, 99-109.	1.8	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.	0.8	92
108	Topological inversions in coalescing granular media control fluid-flow regimes. <i>Physical Review E</i> , 2017, 96, 033113.	0.8	39

#	ARTICLE	IF	CITATIONS
109	Stability of volcanic ash aggregates and break-up processes. <i>Scientific Reports</i> , 2017, 7, 7440.	1.6	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.	1.8	39
111	A compositional tipping point governing the mobilization and eruption style of rhyolitic magma. <i>Nature</i> , 2017, 552, 235-238.	13.7	77
112	Crystal plasticity as an indicator of the viscous-brittle transition in magmas. <i>Nature Communications</i> , 2017, 8, 1926.	5.8	21
113	Magma Mixing: History and Dynamics of an Eruption Trigger. <i>Advances in Volcanology</i> , 2017, , 123-137.	0.7	17
114	Phreatic activity and hydrothermal alteration in the Valley of Desolation, Dominica, Lesser Antilles. <i>Bulletin of Volcanology</i> , 2017, 79, 1.	1.1	22
115	When Does Magma Break?. <i>Advances in Volcanology</i> , 2017, , 171-184.	0.7	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.	1.4	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.	1.1	11
118	Volcanic Ash Activates the NLRP3 Inflammasome in Murine and Human Macrophages. <i>Frontiers in Immunology</i> , 2017, 8, 2000.	2.2	25
119	Eruptive shearing of tube pumice: pure and simple. <i>Solid Earth</i> , 2016, 7, 1383-1393.	1.2	22
120	Universal scaling of fluid permeability during volcanic welding and sediment diagenesis. <i>Geology</i> , 2016, 44, 219-222.	2.0	74
121	The propagation and seismicity of dyke injection, new experimental evidence. <i>Geophysical Research Letters</i> , 2016, 43, 1876-1883.	1.5	14
122	Multiparametric observation of volcanic lightning: Sakurajima Volcano, Japan. <i>Geophysical Research Letters</i> , 2016, 43, 4221-4228.	1.5	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.	0.9	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.	1.8	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.	0.6	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.	0.9	48



#	ARTICLE	IF	CITATIONS
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.	0.8	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.	1.8	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.	1.6	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.	1.5	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.	1.4	38
132	Time scales of foam stability in shallow conduits: Insights from analogue experiments. <i>Geochemistry, Geophysics, Geosystems</i> , 2016, 17, 4179-4194.	1.0	13
133	Magma mixing induced by particle settling. <i>Contributions To Mineralogy and Petrology</i> , 2016, 171, 96.	1.2	15
134	Volcanic ash melting under conditions relevant to ash turbine interactions. <i>Nature Communications</i> , 2016, 7, 10795.	5.8	113
135	Sintering of viscous droplets under surface tension. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2016, 472, 20150780.	1.0	47
136	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.	1.8	31
137	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.	1.8	38
138	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.	1.1	18
139	Dynamic elastic moduli during isotropic densification of initially granular media. <i>Geophysical Journal International</i> , 2016, 204, 1721-1728.	1.0	9
140	Friendly fire: Engineering a fort wall in the Iron Age. <i>Journal of Archaeological Science</i> , 2016, 67, 7-13.	1.2	9
141	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.	1.8	26
142	Surface tension driven processes densify and retain permeability in magma and lava. <i>Earth and Planetary Science Letters</i> , 2016, 433, 116-124.	1.8	63
143	The feasibility of vitrifying a sandstone enclosure in the British Iron Age. <i>Journal of Archaeological Science: Reports</i> , 2015, 4, 605-612.	0.2	2
144	Viscosity measurements of crystallizing andesite from <i>ungurahua volcano</i> ( ) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 62 Td (	1.0	61

#	ARTICLE	IF	CITATIONS
145	Spine growth and seismogenic faulting at Mt. Unzen, Japan. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 4034-4054.	1.4	36
146	Permeability of compacting porous lavas. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 1605-1622.	1.4	46
147	Heterogeneity: The key to failure forecasting. <i>Scientific Reports</i> , 2015, 5, 13259.	1.6	94
148	Vesiculation in rhyolite at low $H_2O$ contents: A thermodynamic model. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 4292-4310.	1.0	9
149	Concentration variance decay during magma mixing: a volcanic chronometer. <i>Scientific Reports</i> , 2015, 5, 14225.	1.6	39
150	Variability in composition and physical properties of the sedimentary basement of Mt Etna, Italy. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 302, 102-116.	0.8	11
151	A novel apparatus for the simulation of eruptive gas-rock interactions. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	1.1	6
152	Analysis of source characteristics of experimental gas burst and fragmentation explosions generated by rapid decompression of volcanic rocks. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 5104-5116.	1.4	12
153	Syn-eruptive, soft-sediment deformation of deposits from dilute pyroclastic density current: triggers from granular shear, dynamic pore pressure, ballistic impacts and shock waves. <i>Solid Earth</i> , 2015, 6, 553-572.	1.2	24
154	Magma mixing enhanced by bubble segregation. <i>Solid Earth</i> , 2015, 6, 1007-1023.	1.2	17
155	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
156	Spherulites as in-situ recorders of thermal history in lava flows. <i>Geology</i> , 2015, 43, 647-650.	2.0	18
157	Thermal vesiculation during volcanic eruptions. <i>Nature</i> , 2015, 528, 544-547.	13.7	52
158	Mechanical behaviour and failure modes in the Whakaari (White Island volcano) hydrothermal system, New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 295, 26-42.	0.8	101
159	The effect of the $[Na/(Na+K)]$ ratio on Fe speciation in phonolitic glasses. <i>American Mineralogist</i> , 2015, 100, 1610-1619.	0.9	30
160	Experimental constraints on phreatic eruption processes at Whakaari (White Island volcano). <i>Journal of Volcanology and Geothermal Research</i> , 2015, 302, 150-162.	0.8	47
161	Fault rheology beyond frictional melting. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 9276-9280.	3.3	25
162	Spatial analysis of Mount St. Helens tephra leachate compositions: implications for future sampling strategies. <i>Bulletin of Volcanology</i> , 2015, 77, 60.	1.1	8

#	ARTICLE	IF	CITATIONS
163	Approximate chemical analysis of volcanic glasses using Raman spectroscopy. <i>Journal of Raman Spectroscopy</i> , 2015, 46, 1235-1244.	1.2	53
164	Volcanic glass and its suitability to recover the ancient geomagnetic field strength. <i>Geological Society Special Publication</i> , 2015, 396, 265-276.	0.8	1
165	Seismogenic frictional melting in the magmatic column. <i>Solid Earth</i> , 2014, 5, 199-208.	1.2	23
166	Seismological analysis of conduit dynamics in fragmentation experiments. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 2215-2229.	1.4	8
167	HCl uptake by volcanic ash in the high temperature eruption plume: Mechanistic insights. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 144, 188-201.	1.6	50
168	Fusion characteristics of volcanic ash relevant to aviation hazards. <i>Geophysical Research Letters</i> , 2014, 41, 2326-2333.	1.5	57
169	Experimental generation of volcanic lightning. <i>Geology</i> , 2014, 42, 79-82.	2.0	78
170	Sulfur as a binding agent of aggregates in explosive eruptions. <i>Bulletin of Volcanology</i> , 2014, 76, 871.	1.1	11
171	Saltation threshold for pyroclasts at various bedslopes: Wind tunnel measurements. <i>Journal of Volcanology and Geothermal Research</i> , 2014, 278-279, 14-24.	0.8	33
172	Influence of cooling rate on thermoremanence of magnetite grains: Identifying the role of different magnetic domain states. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 1599-1606.	1.4	25
173	Volcanic drumbeat seismicity caused by stick-slip motion and magmatic frictional melting. <i>Nature Geoscience</i> , 2014, 7, 438-442.	5.4	74
174	Viscous flow behavior of tholeiitic and alkaline Fe-rich martian basalts. <i>Geochimica Et Cosmochimica Acta</i> , 2014, 124, 348-365.	1.6	48
175	A frictional law for volcanic ash gouge. <i>Earth and Planetary Science Letters</i> , 2014, 400, 177-183.	1.8	25
176	The effects of water vaporization on rock fragmentation during rapid decompression: Implications for the formation of fluidized ejecta on Mars. <i>Earth and Planetary Science Letters</i> , 2014, 385, 68-78.	1.8	19
177	Nonisothermal viscous sintering of volcanic ash. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 8792-8804.	1.4	71
178	The thermal stability of Eyjafjallajökull ash versus turbine ingestion test sands. <i>Journal of Applied Volcanology</i> , 2014, 3, .	0.7	55
179	Microstructural controls on the physical and mechanical properties of edifice-forming andesites at Volcán de Colima, Mexico. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 2925-2963.	1.4	155
180	Time evolution of chemical exchanges during mixing of rhyolitic and basaltic melts. <i>Contributions To Mineralogy and Petrology</i> , 2013, 166, 615-638.	1.2	39

#	ARTICLE	IF	CITATIONS
181	Thermal weakening of the carbonate basement under Mt. Etna volcano (Italy): Implications for volcano instability. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 250, 42-60.	0.8	81
182	SO <sub>2</sub> sequestration in large volcanic eruptions: High-temperature scavenging by tephra. <i>Geochimica Et Cosmochimica Acta</i> , 2013, 110, 58-69.	1.6	73
183	Lava flow rheology: A comparison of morphological and petrological methods. <i>Earth and Planetary Science Letters</i> , 2013, 384, 109-120.	1.8	79
184	Physical properties of CaAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> –CaMgSi <sub>2</sub> O <sub>6</sub> –FeO–Fe <sub>2</sub> O <sub>3</sub> melts: Analogues for extra-terrestrial basalt. <i>Chemical Geology</i> , 2013, 346, 93-105.	1.4	51
185	Interactions between rhyolitic and basaltic melts unraveled by chaotic mixing experiments. <i>Chemical Geology</i> , 2013, 346, 199-212.	1.4	44
186	Relaxation of concentration variance: A new tool to measure chemical element mobility during mixing of magmas. <i>Chemical Geology</i> , 2013, 335, 8-23.	1.4	26
187	XAS investigation of rare earth elements in sodium disilicate glasses. <i>Journal of Non-Crystalline Solids</i> , 2013, 362, 162-168.	1.5	19
188	High and highly variable cooling rates during pyroclastic eruptions on Axial Seamount, Juan de Fuca Ridge. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 253, 54-64.	0.8	26
189	Tracking the permeable porous network during strain-dependent magmatic flow. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 260, 117-126.	0.8	74
190	The rheology of peralkaline rhyolites from Pantelleria Island. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 249, 201-216.	0.8	59
191	Dune bedforms produced by dilute pyroclastic density currents from the August 2006 eruption of Tungurahua volcano, Ecuador. <i>Bulletin of Volcanology</i> , 2013, 75, 762.	1.1	27
192	Sedimentology and geomorphology of the deposits from the August 2006 pyroclastic density currents at Tungurahua volcano, Ecuador. <i>Bulletin of Volcanology</i> , 2013, 75, 765.	1.1	25
193	Morphochemistry of patterns produced by mixing of rhyolitic and basaltic melts. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 253, 87-96.	0.8	20
194	The influence of thermal-stressing (up to 1000°C) on the physical, mechanical, and chemical properties of siliceous-aggregate, high-strength concrete. <i>Construction and Building Materials</i> , 2013, 42, 248-265.	3.2	114
195	Quantification of magma ascent rate through rockfall monitoring at the growing/collapsing lava dome of Volcán de Colima, Mexico. <i>Solid Earth</i> , 2013, 4, 201-213.	1.2	30
196	A high-temperature Brillouin scattering study on four compositions of haplogranitic glasses and melts: High-frequency elastic behavior through the glass transition. <i>American Mineralogist</i> , 2013, 98, 367-375.	0.9	7
197	Decarbonation and thermal microcracking under magmatic P-T-f <sub>CO<sub>2</sub></sub> conditions: the role of skarn substrata in promoting volcanic instability. <i>Geophysical Journal International</i> , 2013, 195, 369-380.	1.0	21
198	Reconstructing magma failure and the degassing network of dome-building eruptions. <i>Geology</i> , 2013, 41, 515-518.	2.0	106

#	ARTICLE	IF	CITATIONS
199	Volcanic sintering: Timescales of viscous densification and strength recovery. <i>Geophysical Research Letters</i> , 2013, 40, 5658-5664.	1.5	91
200	Outgassing: Influence on speed of magma fragmentation. <i>Journal of Geophysical Research: Solid Earth</i> , 2013, 118, 862-877.	1.4	18
201	Europium oxidation state and local structure in silicate glasses. <i>American Mineralogist</i> , 2012, 97, 918-929.	0.9	26
202	Strength and permeability recovery of tuffsite-bearing andesite. <i>Solid Earth</i> , 2012, 3, 191-198.	1.2	62
203	Shallow magma-driven Strombolian eruptions at Mt. Yasur volcano, Vanuatu. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	27
204	Viscous heating in silicate melts: An experimental and numerical comparison. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	35
205	The space and time complexity of chaotic mixing of silicate melts: Implications for igneous petrology. <i>Lithos</i> , 2012, 155, 326-340.	0.6	37
206	Hazard map for volcanic ballistic impacts at Popocatepetl volcano (Mexico). <i>Bulletin of Volcanology</i> , 2012, 74, 2155-2169.	1.1	35
207	Abrasion in pyroclastic density currents: Insights from tumbling experiments. <i>Physics and Chemistry of the Earth</i> , 2012, 45-46, 33-39.	1.2	39
208	Laboratory simulations of tensile fracture development in a volcanic conduit via cyclic magma pressurisation. <i>Earth and Planetary Science Letters</i> , 2012, 349-350, 231-239.	1.8	26
209	Partitioning of elements between silicate melt and immiscible fluoride, chloride, carbonate, phosphate and sulfate melts, with implications to the origin of natrocarbonatite. <i>Geochimica Et Cosmochimica Acta</i> , 2012, 79, 20-40.	1.6	177
210	Volcanic edifice weakening via decarbonation: A self-limiting process?. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	24
211	Physical parameterization of Strombolian eruptions via experimentally validated modeling of high-speed observations. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	33
212	The viscous-brittle transition of crystal-bearing silicic melt: Direct observation of magma rupture and healing. <i>Geology</i> , 2012, 40, 611-614.	2.0	113
213	How tough is tuff in the event of fire?. <i>Geology</i> , 2012, 40, 311-314.	2.0	58
214	Kimberlite ascent by assimilation-fuelled buoyancy. <i>Nature</i> , 2012, 481, 352-356.	13.7	238
215	Extreme frictional processes in the volcanic conduit of Mount St. Helens (USA) during the 2004-2008 eruption. <i>Journal of Structural Geology</i> , 2012, 38, 61-76.	1.0	59
216	Experimental generation of volcanic pseudotachylytes: Constraining rheology. <i>Journal of Structural Geology</i> , 2012, 38, 222-233.	1.0	46

#	ARTICLE	IF	CITATIONS
217	Magmatic architecture of dome-building eruptions at VolcÃ¡n de Colima, Mexico. Bulletin of Volcanology, 2012, 74, 249-260.	1.1	85
218	Volcanic conduit failure as a trigger to magma fragmentation. Bulletin of Volcanology, 2012, 74, 11-13.	1.1	17
219	Increase in radon emission due to rock failure: An experimental study. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	53
220	Paleointensities of phonolitic obsidian: Influence of emplacement rotations and devitrification. Journal of Geophysical Research, 2011, 116, .	3.3	13
221	A general viscosity model of Campi Flegrei (Italy) melts. Chemical Geology, 2011, 290, 50-59.	1.4	24
222	The rheology of crystal-bearing basaltic magmas from Stromboli and Etna. Geochimica Et Cosmochimica Acta, 2011, 75, 3214-3236.	1.6	166
223	Influence of the fragmentation process on the dynamics of Vulcanian eruptions: An experimental approach. Earth and Planetary Science Letters, 2011, 302, 51-59.	1.8	48
224	Volcanic edifice weakening via devolatilization reactions. Geophysical Journal International, 2011, 186, 1073-1077.	1.0	43
225	The porosity of pyroclasts as an indicator of volcanic explosivity. Journal of Volcanology and Geothermal Research, 2011, 203, 168-174.	0.8	57
226	XAS determination of the Fe local environment and oxidation state in phonolite glasses. American Mineralogist, 2011, 96, 631-636.	0.9	56
227	Enhancement of magma mixing efficiency by chaotic dynamics: an experimental study. Contributions To Mineralogy and Petrology, 2011, 161, 863-881.	1.2	91
228	Aggregation-dominated ash settling from the EyjafjallajÃ¶kull volcanic cloud illuminated by field and laboratory high-speed imaging. Geology, 2011, 39, 891-894.	2.0	88
229	Paleointensities on 8 ka obsidian from Mayor Island, New Zealand. Solid Earth, 2011, 2, 259-270.	1.2	9
230	Chaotic Mixing in the System Earth: Mixing Granitic and Basaltic Liquids. , 2010, , .		5
231	Time-scales of recent Phlegrean Fields eruptions inferred from the application of a â€ˆdiffusive fractionationâ€™ model of trace elements. Bulletin of Volcanology, 2010, 72, 431-447.	1.1	50
232	Influence of decompression rate on fragmentation processes: An experimental study. Journal of Volcanology and Geothermal Research, 2010, 193, 182-188.	0.8	16
233	Interfacial tension between immiscible liquids in the system K <sub>2</sub> O-FeO-Fe <sub>2</sub> O <sub>3</sub> -Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> and implications for the kinetics of silicate melt unmixing. American Mineralogist, 2010, 95, 1679-1685.	0.9	16
234	A cooling rate bias in paleointensity determination from volcanic glass: An experimental demonstration. Journal of Geophysical Research, 2010, 115, .	3.3	24

#	ARTICLE	IF	CITATIONS
235	Interfacial tension between immiscible liquids in alkaline earth â€“ boron oxide binary systems. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 1163-1167.	1.5	3
236	Europium structural environment in a sodium disilicate glass by XAS. <i>Journal of Non-Crystalline Solids</i> , 2010, 356, 1749-1753.	1.5	18
237	Energy consumption by magmatic fragmentation and pyroclast ejection during Vulcanian eruptions. <i>Earth and Planetary Science Letters</i> , 2010, 291, 60-69.	1.8	68
238	Rapid ascent of rhyolitic magma at ChaitÃ©n volcano, Chile. <i>Nature</i> , 2009, 461, 780-783.	13.7	210
239	Rheological properties of dome lavas: Case study of Unzen volcano. <i>Earth and Planetary Science Letters</i> , 2009, 279, 263-272.	1.8	101
240	Viscosity of high-K basalt from the 5th April 2003 Stromboli paroxysmal explosion. <i>Chemical Geology</i> , 2009, 260, 278-285.	1.4	31
241	Cooling rates of basaltic hyaloclastites and pillow lava glasses from the HSDP2 drill core. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 1052-1066.	1.6	41
242	The rheological evolution of alkaline Vesuvius magmas and comparison with alkaline series from the Phlegrean Fields, Etna, Stromboli and Teide. <i>Geochimica Et Cosmochimica Acta</i> , 2009, 73, 6613-6630.	1.6	44
243	Europium structural role in silicate glasses: Reduction kinetics at low oxygen fugacity. <i>Journal of Physics: Conference Series</i> , 2009, 190, 012179.	0.3	3
244	Experimental peridotiteâ€“melt reaction at one atmosphere: a textural and chemical study. <i>Contributions To Mineralogy and Petrology</i> , 2008, 155, 199-214.	1.2	78
245	Seismogenic lavas and explosive eruption forecasting. <i>Nature</i> , 2008, 453, 507-510.	13.7	161
246	Experimental volcanology on eruptive products of Unzen volcano. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 175, 110-119.	0.8	40
247	Hyperquenched volcanic glass from Loihi Seamount, Hawaii. <i>Earth and Planetary Science Letters</i> , 2008, 270, 54-62.	1.8	62
248	Viscosity of magmatic liquids: A model. <i>Earth and Planetary Science Letters</i> , 2008, 271, 123-134.	1.8	1,257
249	Viscous heating in rhyolite: An in situ experimental determination. <i>Earth and Planetary Science Letters</i> , 2008, 275, 121-126.	1.8	46
250	Siderophile elements in silicate melts â€” A review of the mechanically assisted equilibration technique and the nanonugget issue. <i>Chemical Geology</i> , 2008, 248, 119-139.	1.4	50
251	Viscosity and glass transition temperature of hydrous melts in the system CaAl <sub>2</sub> Si <sub>2</sub> O <sub>8</sub> â€“CaMgSi <sub>2</sub> O <sub>6</sub> . <i>Chemical Geology</i> , 2008, 256, 203-215.	1.4	61
252	Trace element mobility during magma mixing: Preliminary experimental results. <i>Chemical Geology</i> , 2008, 256, 146-157.	1.4	75



#	ARTICLE	IF	CITATIONS
253	Liquid unmixing kinetics and the extent of immiscibility in the system $K_2O-CaO-FeO-Al_2O_3-SiO_2$ . <i>Chemical Geology</i> , 2008, 256, 119-130.	1.4	24
254	Heterogeneities in magma chambers: Insights from the behavior of major and minor elements during mixing experiments with natural alkaline melts. <i>Chemical Geology</i> , 2008, 256, 131-145.	1.4	57
255	8th Silicate Melt Workshop. <i>Chemical Geology</i> , 2008, 256, 77-79.	1.4	0
256	Liquid Immiscibility and Evolution of Basaltic Magma: Reply to S. A. Morse, A. R. McBirney and A. R. Philpotts. <i>Journal of Petrology</i> , 2008, 49, 2177-2186.	1.1	18
257	Permeability control on magma fragmentation. <i>Geology</i> , 2008, 36, 399.	2.0	130
258	Timescales of spherulite crystallization in obsidian inferred from water concentration profiles. <i>American Mineralogist</i> , 2008, 93, 1816-1822.	0.9	76
259	High-load, high-temperature deformation apparatus for synthetic and natural silicate melts. <i>Review of Scientific Instruments</i> , 2007, 78, 075102.	0.6	28
260	Liquid Immiscibility and the Evolution of Basaltic Magma. <i>Journal of Petrology</i> , 2007, 48, 2187-2210.	1.1	140
261	The influence of H <sub>2</sub> O and CO <sub>2</sub> on the glass transition temperature: insights into the effects of volatiles on magma viscosity. <i>European Journal of Mineralogy</i> , 2007, 19, 657-669.	0.4	45
262	Non-Newtonian rheological law for highly crystalline dome lavas. <i>Geology</i> , 2007, 35, 843.	2.0	164
263	Thermo-rheological magma control on the impact of highly fluid lava flows at Mt. Nyiragongo. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	51
264	Fall-experiments on Merapi basaltic andesite and constraints on the generation of pyroclastic surges. <i>EEarth</i> , 2007, 2, 1-5.	0.8	7
265	Impact vesiculation &ndash; a new trigger for volcanic bubble growth and degassing. <i>EEarth Discussions</i> , 2007, 2, 151-167.	0.3	7
266	Transport Properties of Magmas: Diffusion and Rheology. <i>Elements</i> , 2006, 2, 281-286.	0.5	73
267	Cooling rate correction of paleointensity determination for volcanic glasses by relaxation geospeedometry. <i>Earth and Planetary Science Letters</i> , 2006, 243, 282-292.	1.8	59
268	Flow and fracturing of viscoelastic media under diffusion-driven bubble growth: An analogue experiment for eruptive volcanic conduits. <i>Earth and Planetary Science Letters</i> , 2006, 243, 771-785.	1.8	19
269	Explosive energy&#x2013;during volcanic eruptions from fractal analysis of pyroclasts. <i>Earth and Planetary Science Letters</i> , 2006, 248, 800-807.	1.8	82
270	An expanded non-Arrhenian model for silicate melt viscosity: A treatment for metaluminous, peraluminous and peralkaline liquids. <i>Chemical Geology</i> , 2006, 229, 42-56.	1.4	126



#	ARTICLE	IF	CITATIONS
271	Temperature-dependent thermal expansivities of multicomponent natural melts between 993 and 1803 K. <i>Chemical Geology</i> , 2006, 229, 10-27.	1.4	10
272	Water solubility and speciation in shoshonitic and latitic melt composition from Campi Flegrei Caldera (Italy). <i>Chemical Geology</i> , 2006, 229, 113-124.	1.4	21
273	Oxygen fugacity dependence of Os solubility in haplobasaltic melt. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 742-756.	1.6	37
274	Temperature independent thermal expansivities of calcium aluminosilicate melts between 1150 and 1973K in the system anorthite-wollastonite-gehlenite (An-Wo-Geh): A density model. <i>Geochimica Et Cosmochimica Acta</i> , 2006, 70, 3059-3074.	1.6	13
275	A partial molar volume for La <sub>2</sub> O <sub>3</sub> in silicate melts. <i>Journal of Non-Crystalline Solids</i> , 2006, 352, 304-314.	1.5	4
276	Dynamics of explosive volcanism at Unzen volcano: an experimental contribution. <i>Bulletin of Volcanology</i> , 2006, 69, 175-187.	1.1	49
277	The origin of reaction textures in mantle peridotite xenoliths from Sal Island, Cape Verde: the case for metamorphism by the host lava. <i>Contributions To Mineralogy and Petrology</i> , 2006, 151, 681-697.	1.2	87
278	Immiscible silicate liquid partition coefficients: implications for crystal-melt element partitioning and basalt petrogenesis. <i>Contributions To Mineralogy and Petrology</i> , 2006, 152, 685-702.	1.2	109
279	Fragmentation efficiency of explosive volcanic eruptions: A study of experimentally generated pyroclasts. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 153, 125-135.	0.8	101
280	Temperature dependence of elastic P- and S-wave velocities in porous Mt. Unzen dacite. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 153, 136-147.	0.8	30
281	The trigger mechanism of low-frequency earthquakes on Montserrat. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 153, 37-50.	0.8	257
282	A partial molar volume for ZnO in silicate melts. <i>American Mineralogist</i> , 2006, 91, 366-374.	0.9	4
283	Fall-experiments on Merapi basaltic andesite and constraints on the generation of pyroclastic surges. <i>Earth Discussions</i> , 2006, 1, 81-96.	0.3	0
284	Conduit implosion during Vulcanian eruptions. <i>Geology</i> , 2005, 33, 581.	2.0	76
285	New insights on the origin of flow bands in obsidian. , 2005, , .		22
286	Field-based density measurements as tool to identify preeruption dome structure: set-up and first results from Unzen volcano, Japan. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 141, 65-75.	0.8	49
287	Glass transition temperatures of natural hydrous melts: a relationship with shear viscosity and implications for the welding process. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 142, 105-118.	0.8	150
288	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

#	ARTICLE	IF	CITATIONS
289	Permeability and degassing of dome lavas undergoing rapid decompression: An experimental determination. <i>Bulletin of Volcanology</i> , 2005, 67, 526-538.	1.1	189
290	High-temperature density of lanthanide-bearing Na-silicate melts: Partial molar volumes for Ce <sub>2</sub> O <sub>3</sub> , Pr <sub>2</sub> O <sub>3</sub> , Nd <sub>2</sub> O <sub>3</sub> , Sm <sub>2</sub> O <sub>3</sub> , Eu <sub>2</sub> O <sub>3</sub> , Gd <sub>2</sub> O <sub>3</sub> , Tb <sub>2</sub> O <sub>3</sub> , Dy <sub>2</sub> O <sub>3</sub> , Ho <sub>2</sub> O <sub>3</sub> , Er <sub>2</sub> O <sub>3</sub> , Tm <sub>2</sub> O <sub>3</sub> , and Yb <sub>2</sub> O <sub>3</sub> . <i>American Mineralogist</i> , 2005, 90, 1597-1605.	0.9	15
291	Rheological and thermodynamic behavior of calcium aluminosilicate melts within the anorthite-wollastonite-gehlenite compatibility triangle. <i>Journal of Non-Crystalline Solids</i> , 2005, 351, 499-507.	1.5	22
292	Partitioning of lanthanides and Y between immiscible silicate and fluoride melts, fluorite and cryolite and the origin of the lanthanide tetrad effect in igneous rocks. <i>Geochimica Et Cosmochimica Acta</i> , 2005, 69, 2847-2860.	1.6	175
293	Matrix effect and partitioning of boron isotopes between immiscible Si-rich and B-rich liquids in the Si-Al-Ca-Na-O system: A SIMS study of glasses quenched from centrifuge experiments. <i>Chemical Geology</i> , 2005, 222, 268-280.	1.4	21
294	Magma fragmentation speed: an experimental determination. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 129, 109-123.	0.8	56
295	Experimental and analytical modeling of basaltic ash explosions at Mount Etna, Italy, 2001. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	27
296	The viscosity of trachytes, and comparison with basalts, phonolites, and rhyolites. <i>Chemical Geology</i> , 2004, 213, 49-61.	1.4	83
297	Decoupled convection cells from mixing experiments with alkaline melts from Phlegrean Fields. <i>Chemical Geology</i> , 2004, 213, 227-251.	1.4	36
298	Shear viscosities of CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> and MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> liquids: Implications for the structural role of aluminium and the degree of polymerisation of synthetic and natural aluminosilicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 5169-5188.	1.6	172
299	The combined effects of water and fluorine on the viscosity of silicic magmas. <i>Geochimica Et Cosmochimica Acta</i> , 2004, 68, 5159-5168.	1.6	135
300	The fragmentation threshold of pyroclastic rocks. <i>Earth and Planetary Science Letters</i> , 2004, 226, 139-148.	1.8	230
301	Viscosity of peridotite liquid. <i>Earth and Planetary Science Letters</i> , 2004, 226, 127-138.	1.8	86
302	Thermal history of Hawaiian pāhoehoe lava crusts at the glass transition: implications for flow rheology and emplacement. <i>Earth and Planetary Science Letters</i> , 2004, 228, 343-353.	1.8	40
303	Rheological and thermodynamic behaviors of different calcium aluminosilicate melts with the same non-bridging oxygen content. <i>Journal of Non-Crystalline Solids</i> , 2004, 336, 179-188.	1.5	58
304	V oxidation state and coordination number in silicate glasses by XAS. <i>American Mineralogist</i> , 2004, 89, 1640-1646.	0.9	74
305	Viscosity of hydrous Etna basalt: implications for Plinian-style basaltic eruptions. <i>Bulletin of Volcanology</i> , 2003, 65, 8-14.	1.1	176
306	Grain-size characteristics of experimental pyroclasts of 1980 Mount St. Helens cryptodome dacite: effects of pressure drop and temperature. <i>Bulletin of Volcanology</i> , 2003, 65, 90-104.	1.1	36

#	ARTICLE	IF	CITATIONS
307	Temperature dependence of Pt and Rh solubilities in a haplobasaltic melt. <i>Geochimica Et Cosmochimica Acta</i> , 2003, 67, 123-131.	1.6	60
308	The dry and hydrous viscosities of alkaline melts from Vesuvius and Phlegrean Fields. <i>Chemical Geology</i> , 2003, 202, 23-38.	1.4	80
309	Non-Arrhenian multicomponent melt viscosity: a model. <i>Earth and Planetary Science Letters</i> , 2003, 208, 337-349.	1.8	188
310	Repeated fracture and healing of silicic magma generate flow banding and earthquakes?. <i>Geology</i> , 2003, 31, 1089.	2.0	334
311	The kinetic fragility of natural silicate melts. <i>Journal of Physics Condensed Matter</i> , 2003, 15, S945-S954.	0.7	35
312	Modelling the non-Arrhenian rheology of silicate melts: Numerical considerations. <i>European Journal of Mineralogy</i> , 2002, 14, 417-428.	0.4	26
313	Structure, structural relaxation and ion diffusion in sodium disilicate melts. <i>Europhysics Letters</i> , 2002, 59, 708-713.	0.7	45
314	Element partitioning between immiscible borosilicate liquids: A high-temperature centrifuge study. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 2603-2614.	1.6	19
315	Thermal expansivities of supercooled haplobasaltic liquids. <i>Geochimica Et Cosmochimica Acta</i> , 2002, 66, 2231-2238.	1.6	10
316	Predicting shear viscosity during volcanic processes at the glass transition: a calorimetric calibration. <i>Earth and Planetary Science Letters</i> , 2002, 198, 417-427.	1.8	73
317	The thermal history of a spatter-fed lava flow: the 8-ka pantellerite flow of Mayor Island, New Zealand. <i>Bulletin of Volcanology</i> , 2002, 64, 410-422.	1.1	55
318	Reply to: Comment on: Supercooled diopside melt: confirmation of temperature-dependent expansivity using container-based dilatometry by J. Gottsmann and D.B. Dingwell. <i>Contributions To Mineralogy and Petrology</i> , 2002, 142, 759-762.	1.2	2
319	The solubility of rhenium in silicate melts: Implications for the geochemical properties of rhenium at high temperatures. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 2161-2170.	1.6	82
320	Heat capacities of haplogranitic glasses and liquids. <i>Geochimica Et Cosmochimica Acta</i> , 2001, 65, 1985-1994.	1.6	31
321	Experimental determination of partial molar volumes of Ga <sub>2</sub> O <sub>3</sub> and GeO <sub>2</sub> in silicate melts: implications for the pressure dependence of metal-silicate partition coefficients. <i>Chemical Geology</i> , 2001, 174, 33-49.	1.4	15
322	The viscosities of dry and hydrous XAlSi <sub>3</sub> O <sub>8</sub> (X=Li, Na, K, Ca <sub>0.5</sub> , Mg <sub>0.5</sub> ) melts. <i>Chemical Geology</i> , 2001, 174, 115-132.	1.4	77
323	Viscosity-temperature behaviour of dry melts in the Qz-Ab-Or system. <i>Chemical Geology</i> , 2001, 174, 133-142.	1.4	26
324	Measurement and implication of "effective" viscosity for rhyolite flow emplacement. <i>Bulletin of Volcanology</i> , 2001, 63, 227-237.	1.1	18

#	ARTICLE	IF	CITATIONS
325	Measurement and implication of "effective" viscosity for rhyolite flow emplacement. <i>Bulletin of Volcanology</i> , 2001, 63, 362-362.	1.1	0
326	Experimental fragmentation of crystal- and vesicle-bearing silicic melts. <i>Bulletin of Volcanology</i> , 2001, 63, 398-405.	1.1	36
327	The cooling of frontal flow ramps: a calorimetric study on the Rocche Rosse rhyolite flow, Lipari, Aeolian Islands, Italy. <i>Terra Nova</i> , 2001, 13, 157-164.	0.9	46
328	Cooling dynamics of spatter-fed phonolite obsidian flows on Tenerife, Canary Islands. <i>Journal of Volcanology and Geothermal Research</i> , 2001, 105, 323-342.	0.8	50
329	Effect of alkalis, phosphorus, and water on the surface tension of haplogranite melt. <i>American Mineralogist</i> , 2000, 85, 33-40.	0.9	152
330	The Preparation and Preliminary Characterisation of Eight Geological MPI-DING Reference Glasses for In-Situ Microanalysis. <i>Geostandards and Geoanalytical Research</i> , 2000, 24, 87-133.	1.7	286
331	Three fragmentation mechanisms for highly viscous magma under rapid decompression. <i>Journal of Volcanology and Geothermal Research</i> , 2000, 100, 413-421.	0.8	102
332	Viscosity of a Teide phonolite in the welding interval. <i>Journal of Volcanology and Geothermal Research</i> , 2000, 103, 239-245.	0.8	56
333	Supercooled diopside melt: confirmation of temperature-dependent expansivity using container-based dilatometry. <i>Contributions To Mineralogy and Petrology</i> , 2000, 139, 127-135.	1.2	18
334	Cooling rates of hyaloclastites: applications of relaxation geospeedometry to undersea volcanic deposits. <i>Bulletin of Volcanology</i> , 2000, 61, 527-536.	1.1	47
335	Viscosities of granitic (sensu lato) melts: Influence of the anorthite component. <i>American Mineralogist</i> , 2000, 85, 1342-1348.	0.9	13
336	Effect of aluminum on Ti-coordination in silicate glasses: A XANES study. <i>American Mineralogist</i> , 2000, 85, 108-117.	0.9	56
337	Fragmentation of foamed silicic melts: an experimental study. <i>Earth and Planetary Science Letters</i> , 2000, 178, 47-58.	1.8	62
338	Evidence for Al/Si tetrahedral network in aluminosilicate glasses from AlK-edge x-ray-absorption spectroscopy. <i>Physical Review B</i> , 1999, 60, 9216-9219.	1.1	31
339	Tube pumices as strain markers of the ductile-brittle transition during magma fragmentation. <i>Nature</i> , 1999, 402, 650-653.	13.7	64
340	Partial molar volumes of NiO and CoO liquids: implications for the pressure dependence of metal-silicate partitioning. <i>Earth and Planetary Science Letters</i> , 1999, 171, 171-183.	1.8	15
341	Solubilities of Pt and Rh in a haplobasaltic silicate melt at 1300°C. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 2439-2449.	1.6	138
342	Chemical diffusivities of 18 trace elements in granitoid melts. <i>Geochimica Et Cosmochimica Acta</i> , 1999, 63, 2599-2610.	1.6	90

#	ARTICLE	IF	CITATIONS
343	Granitic melt viscosities. Geological Society Special Publication, 1999, 168, 27-38.	0.8	12
344	Thermal expansion of silicate liquids; direct determination using container-based dilatometry. American Mineralogist, 1999, 84, 1176-1180.	0.9	21
345	Densities of melts in the CaO-MgO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> system. American Mineralogist, 1999, 84, 465-476.	0.9	74
346	Determination of trace-element partitioning between fluid and melt using LA-ICP-MS analysis of synthetic fluid inclusions in glass. European Journal of Mineralogy, 1999, 11, 415-426.	0.4	40
347	The influence of trace amounts of water on the viscosity of rhyolites. Bulletin of Volcanology, 1998, 60, 89-97.	1.1	42
348	The glass transition in hydrous granitic melts. Physics of the Earth and Planetary Interiors, 1998, 107, 1-8.	0.7	55
349	Recent experimental progress in the physical description of silicic magma relevant to explosive volcanism. Geological Society Special Publication, 1998, 145, 9-26.	0.8	36
350	Trace Element Partitioning in Immiscible Silicate-Carbonate Liquid Systems: an Initial Experimental Study Using a Centrifuge Autoclave. Journal of Petrology, 1998, 39, 2095-2104.	1.1	213
351	Multicomponent diffusion in the molten system K <sub>2</sub> O-Na <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> -H <sub>2</sub> O. American Mineralogist, 1998, 83, 685-699.	0.9	44
352	Viscosity data for hydrous peraluminous granitic melts; comparison with a metaluminous model. American Mineralogist, 1998, 83, 236-239.	0.9	45
353	Melt viscosities in the system Na-Fe-Si-O-F-Cl; contrasting effects of F and Cl in alkaline melts. American Mineralogist, 1998, 83, 1016-1021.	0.9	57
354	Chapter 13. MELT VISCOSITY AND DIFFUSION UNDER ELEVATED PRESSURES. , 1998, , 397-424.		6
355	Trace Element Partitioning in Immiscible Silicate-Carbonate Liquid Systems: an Initial Experimental Study Using a Centrifuge Autoclave. Journal of Petrology, 1998, 39, 2095-2104.	1.1	32
356	The Brittle-Ductile Transition in High-Level Granitic Magmas: Material Constraints. Journal of Petrology, 1997, 38, 1635-1644.	1.1	48
357	Viscosity, fragility, and configurational entropy of melts along the join SiO <sub>2</sub> -NaAlSiO <sub>4</sub> . American Mineralogist, 1997, 82, 979-990.	0.9	159
358	Actinide diffusion in a haplogranitic melt: Effects of temperature, water content, and pressure. Geochimica Et Cosmochimica Acta, 1997, 61, 2237-2246.	1.6	23
359	Peraluminous viscosity maxima in Na <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> liquids: The role of triclusters in tectosilicate melts. Geochimica Et Cosmochimica Acta, 1997, 61, 2605-2612.	1.6	254
360	High-temperature densities of some mantle melts. Geochimica Et Cosmochimica Acta, 1997, 61, 3111-3119.	1.6	24

#	ARTICLE	IF	CITATIONS
361	Compositional dependence of the activity of nickel in silicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 1997, 61, 4707-4721.	1.6	13
362	The solubility of H <sub>2</sub> O in peralkaline and peraluminous granitic melts. <i>American Mineralogist</i> , 1997, 82, 434-437.	0.9	55
363	Physical properties of the 1980 Mount St. Helens cryptodome magma. <i>Bulletin of Volcanology</i> , 1997, 59, 103-111.	1.1	34
364	The Brittle-Ductile Transition in High-Level Granitic Magmas: Material Constraints. <i>Journal of Petrology</i> , 1997, 38, 1635-1644.	1.1	10
365	A rotating autoclave for centrifuge studies: falling sphere viscometry. <i>European Journal of Mineralogy</i> , 1997, 9, 345-350.	0.4	9
366	Granite and granitic pegmatite melts: volumes and viscosities. <i>Earth and Environmental Science Transactions of the Royal Society of Edinburgh</i> , 1996, 87, 65-72.	0.3	41
367	Near-infrared spectroscopic determination of water species in glasses of the system MAlSi <sub>3</sub> O <sub>8</sub> (M = Li, Tj ETQq1 1.0,784314,rgBT /Omer	1.4	204
368	Parametrization of viscosity-temperature relations of aluminosilicate melts. <i>Chemical Geology</i> , 1996, 128, 155-163.	1.4	60
369	Reply to the comment by E. F. Riebling on "Glass-forming oxide melts of possible geological import revisited". <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 537.	1.6	1
370	Tektite cooling rates: Calorimetric relaxation geospeedometry applied to a natural glass. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 1099-1103.	1.6	35
371	Solubility of tungsten in a haplobasaltic melt as a function of temperature and oxygen fugacity. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 1171-1180.	1.6	56
372	Rhyolite magma degassing: an experimental study of melt vesiculation. <i>Bulletin of Volcanology</i> , 1996, 57, 587-601.	1.1	46
373	Microlites and "nanolites" in rhyolitic glass: microstructural and chemical characterization. <i>Bulletin of Volcanology</i> , 1996, 57, 631-640.	1.1	58
374	The variable influence of P <sub>2</sub> O <sub>5</sub> on the viscosity of melts of differing alkali/aluminium ratio: Implications for the structural role of phosphorus in silicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 1996, 60, 4107-4121.	1.6	83
375	Volcanic Dilemma—Flow or Blow?. <i>Science</i> , 1996, 273, 1054-1055.	6.0	310
376	Chapter 8. EXPERIMENTAL STUDIES OF BORON IN GRANITIC MELTS. , 1996, , 331-386.		18
377	Compositional dependence of H <sub>2</sub> O solubility along the joins NaAlSi <sub>3</sub> O <sub>8</sub> -KAlSi <sub>3</sub> O <sub>8</sub> , NaAlSi <sub>3</sub> O <sub>8</sub> -LiAlSi <sub>3</sub> O <sub>8</sub> , and KAlSi <sub>3</sub> O <sub>8</sub> -LiAlSi <sub>3</sub> O <sub>8</sub> . <i>American Mineralogist</i> , 1996, 81, 452-461.	0.9	26
378	Tensile strengths of hydrous vesicular glasses; an experimental study. <i>American Mineralogist</i> , 1996, 81, 1148-1154.	0.9	39

#	ARTICLE	IF	CITATIONS
379	Development and Testing of a Glass Waste Form for the Immobilization of Plutonium. Materials Research Society Symposia Proceedings, 1996, 465, 1229.	0.1	6
380	Granite and granitic pegmatite melts: volumes and viscosities. , 1996, , .		1
381	Dynamics of strong and fragile glass formers and a scaling procedure for the temperature dependence of the viscosity. Zeitschrift Fur Elektrotechnik Und Elektrochemie, 1996, 100, 1402-1407.	0.9	8
382	Numerical modelling of stress generation and microfracturing of vesicle walls in glassy rocks. Journal of Volcanology and Geothermal Research, 1996, 73, 33-46.	0.8	33
383	The effect of water on the viscosity of a haplogranitic melt under P-T-X conditions relevant to silicic volcanism. Contributions To Mineralogy and Petrology, 1996, 124, 19-28.	1.2	211
384	Cooling rate variation in natural volcanic glasses from Tenerife, Canary Islands. Contributions To Mineralogy and Petrology, 1996, 125, 151-160.	1.2	40
385	Viscosity of microlite-bearing rhyolitic obsidians: an experimental study. Bulletin of Volcanology, 1996, 58, 298-309.	1.1	49
386	An experimental facility for the investigation of magma fragmentation by rapid decompression. Bulletin of Volcanology, 1996, 58, 411-416.	1.1	58
387	Modelling of melt segregation processes by high-temperature centrifuging of partially molten granites-I. Melt extraction by compaction and deformation. Geophysical Journal International, 1996, 127, 616-626.	1.0	16
388	Modelling of melt segregation processes by high-temperature centrifuging of partially molten granites-II. Rayleigh-Taylor instability and sedimentation. Geophysical Journal International, 1996, 127, 627-634.	1.0	5
389	Magma fragmentation by rapid decompression. Nature, 1996, 380, 146-148.	13.7	289
390	The influence of alkaline-earth oxides (BeO, MgO, CaO, SrO, BaO) on the viscosity of a haplogranitic melt: systematics of non-Arrhenian behaviour. European Journal of Mineralogy, 1996, 8, 371-382.	0.4	33
391	Centrifuge-assisted falling-sphere viscometry. European Journal of Mineralogy, 1996, 8, 507-514.	0.4	36
392	The influence of excess alkalis on the viscosity of a haplogranitic melt. American Mineralogist, 1995, 80, 297-304.	0.9	124
393	H <sub>2</sub> O solubility in haplogranitic melts; compositional, pressure, and temperature dependence. American Mineralogist, 1995, 80, 94-108.	0.9	281
394	The temperature dependence of the speciation of water in NaAlSi <sub>3</sub> O <sub>8</sub> -KAlSi <sub>3</sub> O <sub>8</sub> melts: an application of fictive temperatures derived from synthetic fluid-inclusions. Contributions To Mineralogy and Petrology, 1995, 122, 1-10.	1.2	39
395	The equivalence of enthalpy and shear stress relaxation in rhyolitic obsidians and quantification of the liquid-glass transition in volcanic processes. Journal of Volcanology and Geothermal Research, 1995, 68, 297-306.	0.8	94
396	Chapter 2. RELAXATION IN SILICATE MELTS: SOME APPLICATIONS. , 1995, , 21-66.		18



#	ARTICLE	IF	CITATIONS
397	Chapter 4. VISCOELASTICITY. , 1995, , 95-120.		10
398	Neutron diffraction study of feldspar glasses. Mixed alkali effect. Journal of Non-Crystalline Solids, 1995, 191, 124-131.	1.5	14
399	Experimental petrochemistry of some highly siderophile elements at high temperatures, and some implications for core formation and the mantle's early history. Chemical Geology, 1995, 120, 255-273.	1.4	187
400	Evaluation of a relaxation geospeedometer for volcanic glasses. Chemical Geology, 1995, 125, 137-148.	1.4	75
401	Multicomponent diffusion in ternary silicate melts in the system K <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> : I. Experimental measurements. Geochimica Et Cosmochimica Acta, 1995, 59, 255-264.	1.6	56
402	Nonlinear composition dependence of molar volume of melts in the CaO-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> system. Geochimica Et Cosmochimica Acta, 1995, 59, 3685-3695.	1.6	77
403	Multicomponent diffusion in ternary silicate melts in the system K <sub>2</sub> O-Al <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> : II. Mechanisms, systematics, and geological applications. Geochimica Et Cosmochimica Acta, 1995, 59, 265-277.	1.6	52
404	Melt densities for leucogranites and granitic pegmatites: Partial molar volumes for SiO <sub>2</sub> , Al <sub>2</sub> O <sub>3</sub> , Na <sub>2</sub> O, K <sub>2</sub> O, Li <sub>2</sub> O, Rb <sub>2</sub> O, Cs <sub>2</sub> O, MgO, CaO, SrO, BaO, B <sub>2</sub> O <sub>3</sub> , P <sub>2</sub> O <sub>5</sub> , F <sub>2</sub> O, TiO <sub>2</sub> , Nb <sub>2</sub> O <sub>5</sub> , Ta <sub>2</sub> O <sub>5</sub> , and WO <sub>3</sub> . Geochimica Et Cosmochimica Acta, 1995, 59, 4645-4652.	1.6	92
405	The effect of phosphorus on the iron redox ratio, viscosity, and density of an evolved ferro-basalt. Contributions To Mineralogy and Petrology, 1994, 117, 293-304.	1.2	88
406	X-ray absorption study of Ti-bearing silicate glasses. Physics and Chemistry of Minerals, 1994, 21, 501.	0.3	68
407	Pressure-induced coordination change of Ti in silicate glass: a XANES study. Physics and Chemistry of Minerals, 1994, 21, 510.	0.3	34
408	Compressibility of titanosilicate melts. Contributions To Mineralogy and Petrology, 1994, 118, 157-168.	1.2	27
409	Thermal properties of vesicular rhyolite. Journal of Volcanology and Geothermal Research, 1994, 60, 179-191.	0.8	57
410	The solubility and oxidation state of nickel in silicate melt at low oxygen fugacities: Results using a mechanically assisted equilibration technique. Geochimica Et Cosmochimica Acta, 1994, 58, 1967-1974.	1.6	52
411	Non-linear properties of supercooled liquids in the system Na <sub>2</sub> O-SiO <sub>2</sub> . Chemical Geology, 1994, 116, 1-16.	1.4	76
412	Viscoelasticity of crystal- and bubble-bearing rhyolite melts. Physics of the Earth and Planetary Interiors, 1994, 83, 83-99.	0.7	56
413	A volume temperature relationship for liquid GeO <sub>2</sub> and some geophysically relevant derived parameters for network liquids. Physics and Chemistry of Minerals, 1993, 19, 445.	0.3	33
414	Deformation of foamed rhyolites under internal and external stresses: an experimental investigation. Bulletin of Volcanology, 1993, 55, 147-154.	1.1	43



#	ARTICLE	IF	CITATIONS
415	Effects of F, B <sub>2</sub> O <sub>3</sub> and P <sub>2</sub> O <sub>5</sub> on the solubility of water in haplogranite melts compared to natural silicate melts. Contributions To Mineralogy and Petrology, 1993, 113, 492-501.	1.2	132
416	Thermodynamic and rheological properties of rhyolite and andesite melts. Contributions To Mineralogy and Petrology, 1993, 113, 572-581.	1.2	98
417	Experimental strategies for the investigation of low temperature properties in granitic and pegmatitic melts. Chemical Geology, 1993, 108, 19-30.	1.4	14
418	Frequency dependent rheology of vesicular rhyolite. Journal of Geophysical Research, 1993, 98, 6477-6487.	3.3	61
419	Chemical diffusivity of boron in melts of haplogranitic composition. Geochimica Et Cosmochimica Acta, 1993, 57, 1741-1751.	1.6	41
420	The effect of P <sub>2</sub> O <sub>5</sub> on the viscosity of haplogranitic liquid. European Journal of Mineralogy, 1993, 5, 133-140.	0.4	56
421	Effect of boron, phosphorus and fluorine on shear stress relaxation in haplogranite melts. European Journal of Mineralogy, 1993, 5, 409-426.	0.4	36
422	Temperature-dependent thermal expansivities of silicate melts: The system anorthite-diopside. Geochimica Et Cosmochimica Acta, 1992, 56, 689-699.	1.6	60
423	Fluorine in silicate glasses: A multinuclear nuclear magnetic resonance study. Geochimica Et Cosmochimica Acta, 1992, 56, 701-707.	1.6	144
424	Density of some titanium-bearing silicate liquids and the compositional dependence of the partial molar volume of TiO <sub>2</sub> . Geochimica Et Cosmochimica Acta, 1992, 56, 3403-3407.	1.6	56
425	Water solubility in aluminosilicate melts of haplogranite composition at 2 kbar. Chemical Geology, 1992, 96, 289-302.	1.4	126
426	Non-linear temperature dependence of liquid volumes in the system albite-anorthite-diopside. Contributions To Mineralogy and Petrology, 1992, 111, 61-73.	1.2	33
427	Density of Ga <sub>2</sub> O <sub>3</sub> Liquid. Journal of the American Ceramic Society, 1992, 75, 1656-1657.	1.9	20
428	A rheological investigation of vesicular rhyolite. Journal of Volcanology and Geothermal Research, 1992, 50, 307-322.	0.8	129
429	Determination of silicate liquid thermal expansivity using dilatometry and calorimetry. European Journal of Mineralogy, 1992, 4, 95-104.	0.4	45
430	The Density of Titanium(IV) Oxide Liquid. Journal of the American Ceramic Society, 1991, 74, 2718-2719.	1.9	47
431	The onset of non-Newtonian rheology of silicate melts. Physics and Chemistry of Minerals, 1990, 17, 125.	0.3	116
432	Effects of structural relaxation on cationic tracer diffusion in silicate melts. Chemical Geology, 1990, 82, 209-216.	1.4	78

#	ARTICLE	IF	CITATIONS
433	Memorial to Christopher Martin Scarfe. <i>Journal of Geophysical Research</i> , 1990, 95, 15661-15662.	3.3	0
434	Introduction to C. M. Scarfe Memorial: Special Section on Silicate Melts and Mantle Petrogenesis. <i>Journal of Geophysical Research</i> , 1990, 95, 15663-15664.	3.3	1
435	Non-Newtonian rheology of igneous melts at high stresses and strain rates: Experimental results for rhyolite, andesite, basalt, and nephelinite. <i>Journal of Geophysical Research</i> , 1990, 95, 15695-15701.	3.3	244
436	Relaxation in silicate melts. <i>European Journal of Mineralogy</i> , 1990, 2, 427-451.	0.4	454
437	Structural relaxation in silicate melts and non-Newtonian melt rheology in geologic processes. <i>Physics and Chemistry of Minerals</i> , 1989, 16, 508.	0.3	311
438	Viscosities of melts in the Na <sub>2</sub> O-FeO-Fe <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> system and factors controlling relative viscosities of fully polymerized silicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 395-403.	1.6	107
439	Melt densities in the CaO-FeO-Fe <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> system and the compositional dependence of the partial molar volume of ferric iron in silicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 2815-2825.	1.6	69
440	Melt densities in the Na <sub>2</sub> O-FeO-Fe <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> system and the partial molar volume of tetrahedrally-coordinated ferric iron in silicate melts. <i>Geochimica Et Cosmochimica Acta</i> , 1988, 52, 2467-2475.	1.6	68
441	Solubility of Water in Albite-Melt Determined by the Weight Loss Method: A Discussion. <i>Journal of Geology</i> , 1987, 95, 583-584.	0.7	2
442	The effect of oxidation state on the viscosity of melts in the system Na <sub>2</sub> O-FeO-Fe <sub>2</sub> O <sub>3</sub> -SiO <sub>2</sub> . <i>Geochimica Et Cosmochimica Acta</i> , 1987, 51, 195-205.	1.6	132
443	Viscosity-temperature relationships in the system Na <sub>2</sub> Si <sub>2</sub> O <sub>5</sub> -Na <sub>4</sub> Al <sub>2</sub> O <sub>5</sub> . <i>Geochimica Et Cosmochimica Acta</i> , 1986, 50, 1261-1265.	1.6	82
444	Mineral chemistry of igneous melanite garnets from analcite-bearing volcanic rocks, Alberta, Canada. <i>Contributions To Mineralogy and Petrology</i> , 1985, 90, 29-35.	1.2	38
445	Effects of water and fluorine on the viscosity of albite melt at high pressure: a preliminary investigation. <i>Earth and Planetary Science Letters</i> , 1985, 74, 266-274.	1.8	77
446	Chemical diffusion of fluorine in melts in the system Na <sub>2</sub> OAl <sub>2</sub> O <sub>3</sub> SiO <sub>2</sub> . <i>Earth and Planetary Science Letters</i> , 1985, 73, 377-384.	1.8	30
447	Chemical diffusion of fluorine in jadeite melt at high pressure. <i>Geochimica Et Cosmochimica Acta</i> , 1984, 48, 2517-2525.	1.6	24
448	The Solubility of H <sub>2</sub> O in Melts in the System SiO <sub>2</sub> -Al <sub>2</sub> O <sub>3</sub> -Na <sub>2</sub> O-K <sub>2</sub> O at 1 to 2 Kbars. <i>Journal of Geology</i> , 1984, 92, 387-395.	0.7	63
449	Viscosity and Anelasticity of Melts.. <i>AGU Reference Shelf</i> , 0, , 209-217.	0.6	30
450	Novel Thermal Barrier Coatings Resistant to Molten Volcanic Ash Deposition. <i>SSRN Electronic Journal</i> , 0, , .	0.4	1