R Stephen J Sparks

List of Publications by Citations

Source: https://exaly.com/author-pdf/1040055/r-stephen-j-sparks-publications-by-citations.pdf

Version: 2024-04-28

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

67 15,798 175 123 h-index g-index citations papers 6.1 6.75 179 17,595 L-index avg, IF ext. papers ext. citations

#	Paper	IF	Citations
175	The Genesis of Intermediate and Silicic Magmas in Deep Crustal Hot Zones. <i>Journal of Petrology</i> , 2006 , 47, 505-539	3.9	1225
174	The Generation of Granitic Magmas by Intrusion of Basalt into Continental Crust. <i>Journal of Petrology</i> , 1988 , 29, 599-624	3.9	915
173	Thermal and mechanical constraints on mixing between mafic and silicic magmas. <i>Journal of Volcanology and Geothermal Research</i> , 1986 , 29, 99-124	2.8	516
172	Explosive volcanic eruptions IV. The control of magma properties and conduit geometry on eruption column behaviour. <i>Geophysical Journal International</i> , 1980 , 63, 117-148	2.6	516
171	Quantitative models of the fallout and dispersal of tephra from volcanic eruption columns. <i>Bulletin of Volcanology</i> , 1986 , 48, 109-125	2.4	493
170	Effects of repetitive emplacement of basaltic intrusions on thermal evolution and melt generation in the crust. <i>Earth and Planetary Science Letters</i> , 2002 , 203, 937-955	5.3	433
169	Grain size variations in ignimbrites and implications for the transport of pyroclastic flows. <i>Sedimentology</i> , 1976 , 23, 147-188	3.3	431
168	Vertically extensive and unstable magmatic systems: A unified view of igneous processes. <i>Science</i> , 2017 , 355,	33.3	428
167	Remobilization of Andesite Magma by Intrusion of Mafic Magma at the Soufriere Hills Volcano, Montserrat, West Indies. <i>Journal of Petrology</i> , 2000 , 41, 21-42	3.9	380
166	Nonlinear dynamics of lava dome extrusion. <i>Nature</i> , 1999 , 402, 37-41	50.4	368
165	Forecasting volcanic eruptions. Earth and Planetary Science Letters, 2003, 210, 1-15	5.3	337
164	Causes and consequences of pressurisation in lava dome eruptions. <i>Earth and Planetary Science Letters</i> , 1997 , 150, 177-189	5.3	294
163	Mineral disequilibrium in lavas explained by convective self-mixing in open magma chambers. <i>Nature</i> , 2001 , 411, 1037-9	50.4	287
162	Dynamical constraints on kimberlite volcanism. <i>Journal of Volcanology and Geothermal Research</i> , 2006 , 155, 18-48	2.8	274
161	Magma flow instability and cyclic activity at soufriere hills volcano, montserrat, british west indies. <i>Science</i> , 1999 , 283, 1138-42	33.3	243
160	Petrogenesis of Mafic Inclusions in Granitoids of the Adamello Massif, Italy. <i>Journal of Petrology</i> , 1992 , 33, 1039-1104	3.9	204
159	Komatiites I: Eruption and Flow. <i>Journal of Petrology</i> , 1985 , 26, 694-725	3.9	197

(1997-2006)

158	Magma Evolution and Open-System Processes at Shiveluch Volcano: Insights from Phenocryst Zoning. <i>Journal of Petrology</i> , 2006 , 47, 2303-2334	3.9	189
157	Experimental studies of the fluidization of layered sediments and the formation of fluid escape structures. <i>Sedimentology</i> , 1994 , 41, 233-253	3.3	178
156	Experimental phase equilibria constraints on pre-eruptive storage conditions of the Soufriere Hills magma. <i>Geophysical Research Letters</i> , 1998 , 25, 3437-3440	4.9	169
155	Entrainment into two-dimensional and axisymmetric turbulent gravity currents. <i>Journal of Fluid Mechanics</i> , 1996 , 308, 289-311	3.7	152
154	How volcanoes work: A 25 year perspective. Bulletin of the Geological Society of America, 2013, 125, 66	4- 6 . <u>9</u> 0	148
153	Basanite-Phonolite Lineages of the Teide-Pico Viejo Volcanic Complex, Tenerife, Canary Islands. <i>Journal of Petrology</i> , 1998 , 39, 905-936	3.9	147
152	Construction and evolution of igneous bodies: Towards an integrated perspective of crustal magmatism. <i>Lithos</i> , 2015 , 230, 206-221	2.9	146
151	The role of magma mixing in triggering the current eruption at the Soufriere Hills Volcano, Montserrat, West Indies. <i>Geophysical Research Letters</i> , 1998 , 25, 3433-3436	4.9	145
150	Geophysics. Monitoring volcanoes. <i>Science</i> , 2012 , 335, 1310-1	33.3	142
149	Postcumulus processes in layered intrusions. <i>Geological Magazine</i> , 1985 , 122, 555-568		
*1 2	Tosteamatas processes in tayerea incrasions. Deological Magazine, 1965, 122, 333-306	2	142
148	Degassing during magma ascent in the Mule Creek vent (USA). <i>Bulletin of Volcanology</i> , 1996 , 58, 117-13		142
148	Degassing during magma ascent in the Mule Creek vent (USA). Bulletin of Volcanology, 1996 , 58, 117-13	302.4	141
148	Degassing during magma ascent in the Mule Creek vent (USA). <i>Bulletin of Volcanology</i> , 1996 , 58, 117-13 Periodic behavior in lava dome eruptions. <i>Earth and Planetary Science Letters</i> , 2002 , 199, 173-184 Magma production and growth of the lava dome of the Soufriere Hills Volcano, Montserrat, West	3 0 2.4	141
148 147 146	Degassing during magma ascent in the Mule Creek vent (USA). <i>Bulletin of Volcanology</i> , 1996 , 58, 117-13 Periodic behavior in lava dome eruptions. <i>Earth and Planetary Science Letters</i> , 2002 , 199, 173-184 Magma production and growth of the lava dome of the Soufriere Hills Volcano, Montserrat, West Indies: November 1995 to December 1997. <i>Geophysical Research Letters</i> , 1998 , 25, 3421-3424 Melt Segregation in Deep Crustal Hot Zones: a Mechanism for Chemical Differentiation, Crustal	5·3 4·9	141 131 131
148 147 146 145	Degassing during magma ascent in the Mule Creek vent (USA). <i>Bulletin of Volcanology</i> , 1996 , 58, 117-13 Periodic behavior in lava dome eruptions. <i>Earth and Planetary Science Letters</i> , 2002 , 199, 173-184 Magma production and growth of the lava dome of the Soufriere Hills Volcano, Montserrat, West Indies: November 1995 to December 1997. <i>Geophysical Research Letters</i> , 1998 , 25, 3421-3424 Melt Segregation in Deep Crustal Hot Zones: a Mechanism for Chemical Differentiation, Crustal Assimilation and the Formation of Evolved Magmas. <i>Journal of Petrology</i> , 2012 , 53, 1999-2026 Global link between deformation and volcanic eruption quantified by satellite imagery. <i>Nature</i>	5·3 4·9	141 131 131
148 147 146 145	Degassing during magma ascent in the Mule Creek vent (USA). <i>Bulletin of Volcanology</i> , 1996 , 58, 117-13. Periodic behavior in lava dome eruptions. <i>Earth and Planetary Science Letters</i> , 2002 , 199, 173-184. Magma production and growth of the lava dome of the Soufriere Hills Volcano, Montserrat, West Indies: November 1995 to December 1997. <i>Geophysical Research Letters</i> , 1998 , 25, 3421-3424. Melt Segregation in Deep Crustal Hot Zones: a Mechanism for Chemical Differentiation, Crustal Assimilation and the Formation of Evolved Magmas. <i>Journal of Petrology</i> , 2012 , 53, 1999-2026. Global link between deformation and volcanic eruption quantified by satellite imagery. <i>Nature Communications</i> , 2014 , 5, 3471.	3·9 17·4	141 131 131 126

140	Chemical differentiation, cold storage and remobilization of magma in the Earth's crust. <i>Nature</i> , 2018 , 564, 405-409	50.4	116
139	Geomorphological evolution of Montserrat (West Indies): importance of flank collapse and erosional processes. <i>Journal of the Geological Society</i> , 2004 , 161, 147-160	2.7	115
138	The 1975 sub-terminal lavas, mount etna: a case history of the formation of a compound lava field. Journal of Volcanology and Geothermal Research, 1976 , 1, 167-182	2.8	115
137	The 1999 and 2000 eruptions of Mount Cameroon: eruption behaviour and petrochemistry of lava. <i>Bulletin of Volcanology</i> , 2003 , 65, 267-281	2.4	112
136	Petrologic evidence for pre-eruptive pressure-temperature conditions, and recent reheating, of andesitic magma erupting at the Soufriere Hills Volcano, Montserrat, W.I <i>Geophysical Research Letters</i> , 1998 , 25, 3669-3672	4.9	105
135	Charge measurements on particle fallout from a volcanic plume. <i>Nature</i> , 1991 , 349, 598-600	50.4	105
134	Convection and crystallization in magma cooled from above. <i>Earth and Planetary Science Letters</i> , 1990 , 101, 78-89	5.3	102
133	Experimental simulations of explosive degassing of magma. <i>Nature</i> , 1994 , 372, 85-88	50.4	101
132	Post-emplacement serpentinization and related hydrothermal metamorphism in a kimberlite from Venetia, South Africa. <i>Journal of Metamorphic Geology</i> , 2006 , 24, 515-534	4.4	99
131	Dynamics of magma flow inside volcanic conduits with bubble overpressure buildup and gas loss through permeable magma. <i>Journal of Volcanology and Geothermal Research</i> , 2005 , 143, 53-68	2.8	97
130	Petrologic constraints on the decompression history of magma prior to Vulcanian explosions at the Soufrifle Hills volcano, Montserrat. <i>Journal of Volcanology and Geothermal Research</i> , 2007 , 161, 261-274	2.8	96
129	The nature of erupting kimberlite melts. <i>Lithos</i> , 2009 , 112, 429-438	2.9	91
128	Control of magma flow in dykes on cyclic lava dome extrusion. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	91
127	Sedimentation from gravity currents generated by turbulent plumes. <i>Sedimentology</i> , 1991 , 38, 839-856	3.3	89
126	Controls of conduit geometry and wallrock elasticity on lava dome eruptions. <i>Earth and Planetary Science Letters</i> , 2007 , 260, 137-151	5.3	88
125	Submarine pyroclastic deposits formed at the Soufrife Hills volcano, Montserrat (1995\(\textbf{0}003 \)): What happens when pyroclastic flows enter the ocean?. <i>Geology</i> , 2006 , 34, 549	5	87
124	The explosive eruption of Soufriere Hills Volcano, Montserrat, West Indies, 17 September, 1996. Geophysical Research Letters, 1998 , 25, 3429-3432	4.9	86
123	Dense welding caused by volatile resorption. <i>Journal of the Geological Society</i> , 1999 , 156, 217-225	2.7	86

122	Erosion by pyroclastic flows on Lascar Volcano, Chile. Bulletin of Volcanology, 1997, 58, 557-565	2.4	85
121	The 1973 Heimaey Strombolian Scoria deposit, Iceland. <i>Geological Magazine</i> , 1974 , 111, 539-548	2	84
120	Chapter 1 An overview of the eruption of SoufriEe Hills Volcano, Montserrat from 2000 to 2010. <i>Geological Society Memoir</i> , 2014 , 39, 1.1-40	0.4	83
119	Formation and dynamics of magma reservoirs. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019 , 377, 20180019	3	82
118	On the variations of flow rate in non-explosive lava eruptions. <i>Earth and Planetary Science Letters</i> , 1993 , 114, 505-516	5.3	81
117	Crustal-scale degassing due to magma system destabilization and magma-gas decoupling at SoufriBe Hills Volcano, Montserrat. <i>Geochemistry, Geophysics, Geosystems</i> , 2015 , 16, 2797-2811	3.6	79
116	Entrainment in turbulent gravity currents. <i>Nature</i> , 1993 , 362, 829-831	50.4	79
115	Kimberlite Volcanism. Annual Review of Earth and Planetary Sciences, 2013, 41, 497-528	15.3	78
114	Thermodynamics and fluid dynamics of effusive subglacial eruptions. <i>Bulletin of Volcanology</i> , 1997 , 59, 219-230	2.4	77
113	Unprecedented pressure increase in deep magma reservoir triggered by lava-dome collapse. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	75
112	The volcanic evolution of Montserrat using 40Ar/39Ar geochronology. <i>Geological Society Memoir</i> , 2002 , 21, 93-113	0.4	75
111	The volcanological significance of deep-sea ash layers associated with ignimbrites. <i>Geological Magazine</i> , 1980 , 117, 425-436	2	7 ²
110	The role of fluidisation in the formation of volcaniclastic kimberlite: Grain size observations and experimental investigation. <i>Journal of Volcanology and Geothermal Research</i> , 2006 , 155, 119-137	2.8	71
109	Dynamics of magma degassing. <i>Geological Society Special Publication</i> , 2003 , 213, 5-22	1.7	67
108	Morphological, structural and textural variations in the 1988¶990 andesite lava of Lonquimay Volcano, Chile. <i>Geological Magazine</i> , 1992 , 129, 657-678	2	67
107	Temperature changes in ascending kimberlite magma. <i>Earth and Planetary Science Letters</i> , 2009 , 286, 404-413	5.3	65
106	Sedimentation of particles from a convecting fluid. <i>Nature</i> , 1990 , 343, 447-450	50.4	65
105	The Los Chocoyos Ash, Guatemala: A Major Stratigraphic Marker in Middle America and in Three Ocean Basins. <i>Quaternary Research</i> , 1980 , 13, 327-345	1.9	65

104	The volatile content of hypabyssal kimberlite magmas: some constraints from experiments on natural rock compositions. <i>Bulletin of Volcanology</i> , 2011 , 73, 959-981	2.4	62
103	The 1995¶998 eruption of the SoufriEe Hills volcano, Montserrat, WI. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2000 , 358, 1619-1637	3	61
102	Distribution of volcanoes in active margins. <i>Journal of Geophysical Research</i> , 1995 , 100, 20421-20432		60
101	Modelling ground deformation caused by oscillating overpressure in a dyke conduit at Soufrifie Hills Volcano, Montserrat. <i>Tectonophysics</i> , 2009 , 471, 87-95	3.1	59
100	The eruption of Soufrille Hills Volcano, Montserrat (1995-1999): overview of scientific results. <i>Geological Society Memoir</i> , 2002 , 21, 45-69	0.4	59
99	Magma chamber properties from integrated seismic tomography and thermal modeling at Montserrat. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	56
98	The 2001 2 004 dome-forming eruption of Shiveluch volcano, Kamchatka: Observation, petrological investigation and numerical modelling. <i>Journal of Volcanology and Geothermal Research</i> , 2006 , 155, 201	- 22 6	56
97	Upper crustal structure of an active volcano from refraction/reflection tomography, Montserrat, Lesser Antilles. <i>Geophysical Journal International</i> , 2010 , 180, 685-696	2.6	55
96	Thermal models of dyke intrusion during development of continentBcean transition. <i>Earth and Planetary Science Letters</i> , 2014 , 385, 145-153	5.3	53
95	Shallow-level decompression crystallisation and deep magma supply at Shiveluch Volcano. <i>Contributions To Mineralogy and Petrology</i> , 2007 , 155, 45-61	3.5	53
94	The sources of granitic melt in Deep Hot Zones. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , 2008 , 97, 297-309		50
93	Bifurcation of volcanic plumes in a crosswind. <i>Bulletin of Volcanology</i> , 1994 , 56, 159-169	2.4	50
92	Origin of rhyolite and rhyodacite lavas and associated mafic inclusions of Cape Akrotiri, Santorini: the role of wet basalt in generating calcalkaline silicic magmas. <i>Contributions To Mineralogy and Petrology</i> , 2004 , 146, 397-413	3.5	49
91	Petrology and geochemistry of the Loch Ba ring-dyke, Mull (N.W. Scotland): an example of the extreme differentiation of tholeiitic magmas. <i>Contributions To Mineralogy and Petrology</i> , 1988 , 100, 446	5- 4 - 6 1	48
90	Gas-fluidisation in an experimental tapered bed: Insights into processes in diverging volcanic conduits. <i>Journal of Volcanology and Geothermal Research</i> , 2008 , 174, 49-56	2.8	45
89	Effect of mechanical heterogeneity in arc crust on volcano deformation with application to SoufriEe Hills Volcano, Montserrat, West Indies. <i>Journal of Geophysical Research</i> , 2010 , 115,		44
88	Evolution of major and trace element composition during melt migration through crystalline mush: Implications for chemical differentiation in the crust. <i>Numerische Mathematik</i> , 2014 , 314, 895-939	5.3	43
87	Eruption of kimberlite magmas: physical volcanology, geomorphology and age of the youngest kimberlitic volcanoes known on earth (the Upper Pleistocene/Holocene Igwisi Hills volcanoes,	2.4	43

(2008-2014)

86	Revised estimates for the volume of the Late Bronze Age Minoan eruption, Santorini, Greece. <i>Journal of the Geological Society</i> , 2014 , 171, 583-590	2.7	42
85	From Vulcanian explosions to sustained explosive eruptions: The role of diffusive mass transfer in conduit flow dynamics. <i>Journal of Volcanology and Geothermal Research</i> , 2006 , 153, 148-165	2.8	42
84	Behaviour of particle-laden flows into the ocean: experimental simulation and geological implications. <i>Sedimentology</i> , 1999 , 46, 523-536	3.3	42
83	Mechanically disrupted and chemically weakened zones in segmented dike systems cause vent localization: Evidence from kimberlite volcanic systems. <i>Geology</i> , 2007 , 35, 815	5	41
82	Long term exposure to respirable volcanic ash on Montserrat: a time series simulation. <i>Bulletin of Volcanology</i> , 2006 , 68, 266-284	2.4	39
81	The differentiation of the Skaergaard intrusion. <i>Contributions To Mineralogy and Petrology</i> , 1990 , 104, 248-251	3.5	39
80	Fiamme formed by diagenesis and burial-compaction in soils and subaqeuous sediments. <i>Journal of the Geological Society</i> , 1990 , 147, 919-922	2.7	39
79	The role of gas-fluidisation in the formation of massive volcaniclastic kimberlite. <i>Lithos</i> , 2009 , 112, 439-	45.1)	37
78	Geology of a complex kimberlite pipe (K2 pipe, Venetia Mine, South Africa): insights into conduit processes during explosive ultrabasic eruptions. <i>Bulletin of Volcanology</i> , 2009 , 71, 95-112	2.4	37
77	The dynamics of xenolith assimilation. <i>Contributions To Mineralogy and Petrology</i> , 1998 , 132, 21-33	3.5	37
76	Hornblende dehydration reactions during magma ascent at Soufrifie Hills Volcano, Montserrat. <i>Contributions To Mineralogy and Petrology</i> , 2006 , 151, 121-140	3.5	37
75	Three-dimensional seismic velocity tomography of Montserrat from the SEA-CALIPSO offshore/onshore experiment. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	36
74	The Ground Surge Deposit: a Third Type of Pyroclastic Rock. <i>Nature: Physical Science</i> , 1973 , 241, 62-64		35
73	Synthesis: PLUTONS: Investigating the relationship between pluton growth and volcanism in the Central Andes 2018 , 14, 954-982		34
72	Cyclic activity at SoufriEe Hills Volcano, Montserrat: degassing-induced pressurization and stick-slip extrusion. <i>Geological Society Special Publication</i> , 2008 , 307, 169-188	1.7	33
71	Physical characteristics of tephra layers in the deep sea realm: the Campanian Ignimbrite eruption. <i>Geological Society Special Publication</i> , 2014 , 398, 47-64	1.7	32
70	Evolution of crust- and core-dominated lava flows using scaling analysis. <i>Bulletin of Volcanology</i> , 2013 , 75, 1	2.4	32
69	On the Welding of Pyroclasts from Very Low-Viscosity Magmas: Examples from Kimberlite Volcanoes. <i>Journal of Geology</i> , 2008 , 116, 354-374	2	31

68	Non-explosive, constructional evolution of the ice-filled caldera at Volcii Sollipulli, Chile. <i>Bulletin of Volcanology</i> , 1996 , 58, 67-83	2.4	31
67	Similarities and differences in the historical records of lava dome-building volcanoes: Implications for understanding magmatic processes and eruption forecasting. <i>Earth-Science Reviews</i> , 2016 , 160, 240	- 263 2	31
66	Hydrothermal alteration of kimberlite by convective flows of external water. <i>Contributions To Mineralogy and Petrology</i> , 2014 , 168, 1038	3.5	30
65	An objective method for the production of isopach maps and implications for the estimation of tephra deposit volumes and their uncertainties. <i>Bulletin of Volcanology</i> , 2015 , 77, 61	2.4	29
64	The global magnitude f requency relationship for large explosive volcanic eruptions. <i>Earth and Planetary Science Letters</i> , 2018 , 482, 621-629	5.3	29
63	A stress-controlled mechanism for the intensity of very large magnitude explosive eruptions. <i>Earth and Planetary Science Letters</i> , 2011 , 310, 161-166	5.3	28
62	Perovskite from the Dutoitspan kimberlite, Kimberley, South Africa: implications for magmatic processes. <i>Mineralogical Magazine</i> , 2009 , 73, 915-928	1.7	27
61	Strain field analysis on Montserrat (W.I.) as tool for assessing permeable flow paths in the magmatic system of Soufrife Hills Volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 676-690	3.6	26
60	Risk perceptions and trust following the 2010 and 2011 Icelandic volcanic ash crises. <i>Risk Analysis</i> , 2015 , 35, 332-43	3.9	26
59	KIMBERLITE SILLS AND DYKES ASSOCIATED WITH THE WESSELTON KIMBERLITE PIPE, KIMBERLEY, SOUTH AFRICA. <i>South African Journal of Geology</i> , 2012 , 115, 1-32	1.6	26
58	Variations of olivine abundance and grain size in the Snap Lake kimberlite intrusion, Northwest Territories, Canada: A possible proxy for diamonds. <i>Lithos</i> , 2009 , 112, 23-35	2.9	26
57	Growth of bultfonteinite and hydrogarnet in metasomatized basalt xenoliths in the B/K9 kimberlite, Damtshaa, Botswana: insights into hydrothermal metamorphism in kimberlite pipes. <i>Contributions To Mineralogy and Petrology</i> , 2010 , 160, 533-550	3.5	26
56	Global volcanic hazard and risk81-172		25
55	Degassing structures in volcaniclastic kimberlite: Examples from southern African kimberlite pipes. Journal of Volcanology and Geothermal Research, 2008 , 174, 186-194	2.8	25
54	Melting of a sphere in hot fluid. <i>Journal of Fluid Mechanics</i> , 1996 , 327, 393-409	3.7	24
53	Magma Emplacement Rates and Porphyry Copper Deposits: Thermal Modeling of the Yerington Batholith, Nevada. <i>Economic Geology</i> , 2017 , 112, 1653-1672	4.3	23
52	Vertically Extensive Magma Reservoir Revealed From Joint Inversion and Quantitative Interpretation of Seismic and Gravity Data. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 1117	70 3.6 111	9 7 3
51	Timing, origin and emplacement dynamics of mass flows offshore of SE Montserrat in the last 110 ka: Implications for landslide and tsunami hazards, eruption history, and volcanic island evolution. Geochemistry, Geophysics, Geosystems 2013, 14, 385-406	3.6	23

(2007-2009)

50	Depositional processes in a kimberlite crater: the Upper Cretaceous Orapa South Pipe (Botswana). <i>Sedimentology</i> , 2009 , 56, 623-643	3.3	22
49	Scientists views about lay perceptions of volcanic hazard and risk. <i>Journal of Applied Volcanology</i> , 2014 , 3,	2.6	19
48	Degassing in kimberlite: Oxygen isotope ratios in perovskites from explosive and hypabyssal kimberlites. <i>Earth and Planetary Science Letters</i> , 2011 , 312, 291-299	5.3	19
47	Explosion dynamics from strainmeter and microbarometer observations, Soufrife Hills Volcano, Montserrat: 2008 2009. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	19
46	Dynamics of co-ignimbrite plumes generated from pyroclastic flows of Mount St. Helens (7 August 1980). <i>Bulletin of Volcanology</i> , 1997 , 58, 432-440	2.4	19
45	Petrology, geochemistry and low-temperature alteration of lavas and pyroclastic rocks of the kimberlitic Igwisi Hills volcanoes, Tanzania. <i>Chemical Geology</i> , 2015 , 405, 82-101	4.2	18
44	Emplacement temperatures of pyroclastic and volcaniclastic deposits in kimberlite pipes in southern Africa. <i>Bulletin of Volcanology</i> , 2011 , 73, 1063-1083	2.4	18
43	Pyroclastic flow deposits from a kimberlite eruption: The Orapa South Crater, Botswana. <i>Lithos</i> , 2009 , 112, 566-578	2.9	17
42	Rapid emergency assessment of ash and gas hazard for future eruptions at Santorini Volcano, Greece. <i>Journal of Applied Volcanology</i> , 2015 , 4,	2.6	16
41	Contrasts in morphology and deformation offshore Montserrat: New insights from the SEA-CALIPSO marine cruise data. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	16
40	The Gravitational Stability of Lenses in Magma Mushes: Confined Rayleigh-Taylor Instabilities. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 3593-3607	3.6	15
39	Quantification of the Intrusive Magma Fluxes during Magma Chamber Growth at Soufrife Hills Volcano (Montserrat, Lesser Antilles). <i>Journal of Petrology</i> , 2014 , 55, 529-548	3.9	15
38	Unique strainmeter observations of Vulcanian explosions, Soufriffe Hills Volcano, Montserrat, July 2003. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	15
37	Geology of the Snap Lake kimberlite intrusion, Northwest Territories, Canada: field observations and their interpretation. <i>Journal of the Geological Society</i> , 2012 , 169, 1-16	2.7	15
36	Transtensional deformation of Montserrat revealed by shear wave splitting. <i>Earth and Planetary Science Letters</i> , 2015 , 425, 179-186	5.3	14
35	Morphology and structure of the 1999 lava flows at Mount Cameroon Volcano (West Africa) and their bearing on the emplacement dynamics of volume-limited flows. <i>Geological Magazine</i> , 2011 , 148, 22-34	2	14
34	Lesions associated with mineral deposition in the lymph node and lung of the dog. <i>Veterinary Pathology</i> , 1996 , 33, 29-42	2.8	13
33	Kimberlite ascent and eruption. <i>Nature</i> , 2007 , 450, E21; discussion E22	50.4	12

32	The ~2 ka subplinian eruption of Monta Blanca, Tenerife. <i>Bulletin of Volcanology</i> , 1995 , 57, 337-355	2.4	12
31	Problems with an in-vent column collapse model for the emplacement of massive volcaniclastic kimberlite. A discussion of 'In-vent column collapse as an alternative model for massive volcaniclastic kimberlite emplacement: An example from the Fox kimberlite, Ekati Diamond Mine,	2.8	11
30	Causes of fragmented crystals in ignimbrites: a case study of the Cardones ignimbrite, Northern Chile. <i>Bulletin of Volcanology</i> , 2018 , 80, 1	2.4	10
29	Risk and uncertainty assessment of volcanic hazards364-397		10
28	Understanding causality and uncertainty in volcanic observations: An example of forecasting eruptive activity on Soufrille Hills Volcano, Montserrat. <i>Journal of Volcanology and Geothermal Research</i> , 2017 , 341, 287-300	2.8	9
27	Petrogenesis of the Large-volume Cardones Ignimbrite, Chile; Development and Destabilization of a Complex MagmaMush System. <i>Journal of Petrology</i> , 2017 , 58, 1975-2006	3.9	9
26	An introduction to global volcanic hazard and risk1-80		9
25	The economic potential of metalliferous sub-volcanic brines. Royal Society Open Science, 2021, 8, 20219	23.3	9
24	Geology of the Don Manuel igneous complex, central Chile: Implications for igneous processes in porphyry copper systems. <i>Bulletin of the Geological Society of America</i> , 2017 , 129, 920-946	3.9	8
23	Using ignimbrites to quantify structural relief growth and understand deformation processes: Implications for the development of the Western Andean Slope, northernmost Chile. <i>Lithosphere</i> , 2017 , 9, 29-45	2.7	8
22	Risk perception at a persistently active volcano: warnings and trust at PopocatBetl volcano in Mexico, 2012I014. <i>Bulletin of Volcanology</i> , 2018 , 80, 1	2.4	8
21	Fracture and surface crust development in a Holocene pahoehoe lava flow on the Island of Tenerife, Canaries. <i>Journal of Structural Geology</i> , 2001 , 23, 165-182	3	7
20	Kimberlite Volcanology: Transport, Ascent, and Eruption. <i>Elements</i> , 2019 , 15, 405-410	3.8	7
19	Timescales of magma degassing Insights from U-series disequilibria, Mount Cameroon, West Africa. <i>Journal of Volcanology and Geothermal Research</i> , 2013 , 262, 38-46	2.8	6
18	Petrogenesis and Assembly of the Don Manuel Igneous Complex, Miocene Poliocene Porphyry Copper Belt, Central Chile. <i>Journal of Petrology</i> , 2018 , 59, 1067-1108	3.9	5
17	Quantifying threat from COVID-19 infection hazard in Primary Schools in England		5
16	New insights into source and dispersal of Mediterranean S1 tephra, an early Holocene marker horizon erupted at Mt. Erciyes (Turkey). <i>Quaternary Science Reviews</i> , 2020 , 249, 106606	3.9	5
15	Geology of the BK9 kimberlite (Damtshaa, Botswana): implications for the formation of dark volcaniclastic kimberlite. <i>Bulletin of Volcanology</i> , 2011 , 73, 1029-1045	2.4	4

LIST OF PUBLICATIONS

14	Comment on: The structure and petrogenesis of the Trallval and Ruinsival areas of the Rhum ultrabasic pluton by J. A. Volker and B. G. J. Upton. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , 1991 , 82, 389-390		4
13	Chapter 15 The SEA-CALIPSO volcano imaging experiment at Montserrat: plans, campaigns at sea and on land, scientific results, and lessons learned. <i>Geological Society Memoir</i> , 2014 , 39, 253-289	0.4	3
12	A novel approach for evaluating contact patterns and risk mitigation strategies for COVID-19 in English primary schools with application of structured expert judgement. <i>Royal Society Open Science</i> , 2021 , 8, 201566	3.3	3
11	Origen y emplazamiento del Domo Tinto, volcli Guallatiri, Norte de Chile <i>Andean Geology</i> , 2014 , 41,	2.4	2
10	Opportunities for Innovative Publishing in the Electronic Age?. <i>Eos</i> , 2013 , 94, 116-116	1.5	1
9	Columnar-jointed bentonite below a Doleritic Sill, Tideswell Dale, Derbyshire, UK: formation during prograde contact metamorphism. <i>Geological Magazine</i> , 2020 , 157, 1181-1198	2	1
8	Analysis of alternative Covid-19 mitigation measures in school classrooms: an agent-based model of SARS-CoV-2 transmission		1
7	Pupils returning to primary schools in England during 2020: rapid estimations of punctual COVID-19 infection rates. <i>Royal Society Open Science</i> , 2021 , 8, 202218	3.3	1
6	Extreme Environmental Events 2011 , 1035-1081		1
5	Large silicic magma bodies and very large magnitude explosive eruptions. <i>Bulletin of Volcanology</i> , 2022 , 84, 1	2.4	1
4	Columnar-jointed bentonite below a Doleritic Sill, Tideswell Dale, Derbyshire, UK: formation during prograde contact metamorphism ©ORRIGENDUM. <i>Geological Magazine</i> , 2020 , 157, 1199-1199	2	
3	Science for Humanity: Giving Generously to Our World. <i>Eos</i> , 2010 , 91, 317	1.5	
2	Comment on: Petrography of the Snap Lake Kimberlite Dyke (Northwest Territories, Canada) and its Interaction with Country Rock Granitoids by Fulopet al. (2018), Journal of Petrology, doi: 10.1093/petrology/egy025. <i>Journal of Petrology</i> , 2018,	3.9	
1	Volcanic Eruptions: Cyclicity During Lava Dome Growth 2022 , 619-646		