

R Stephen J Sparks

List of Publications by Year in descending order

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175
papers

19,396
citations

10388

72
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11307

136
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docs citations

179
times ranked

7695
citing authors

#	ARTICLE	IF	CITATIONS
1	The Genesis of Intermediate and Silicic Magmas in Deep Crustal Hot Zones. <i>Journal of Petrology</i> , 2006, 47, 505-539.	2.8	1,551
2	The Generation of Granitic Magmas by Intrusion of Basalt into Continental Crust. <i>Journal of Petrology</i> , 1988, 29, 599-624.	2.8	1,010
3	Vertically extensive and unstable magmatic systems: A unified view of igneous processes. <i>Science</i> , 2017, 355, .	12.6	770
4	Quantitative models of the fallout and dispersal of tephra from volcanic eruption columns. <i>Bulletin of Volcanology</i> , 1986, 48, 109-125.	3.0	585
5	Thermal and mechanical constraints on mixing between mafic and silicic magmas. <i>Journal of Volcanology and Geothermal Research</i> , 1986, 29, 99-124.	2.1	583
6	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.	2.4	582
7	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.	4.4	515
8	Grain size variations in ignimbrites and implications for the transport of pyroclastic flows. <i>Sedimentology</i> , 1976, 23, 147-188.	3.1	472
9	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.	2.8	422
10	Nonlinear dynamics of lava dome extrusion. <i>Nature</i> , 1999, 402, 37-41.	27.8	421
11	Forecasting volcanic eruptions. <i>Earth and Planetary Science Letters</i> , 2003, 210, 1-15.	4.4	410
12	Mineral disequilibrium in lavas explained by convective self-mixing in open magma chambers. <i>Nature</i> , 2001, 411, 1037-1039.	27.8	338
13	Causes and consequences of pressurisation in lava dome eruptions. <i>Earth and Planetary Science Letters</i> , 1997, 150, 177-189.	4.4	337
14	Dynamical constraints on kimberlite volcanism. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 155, 18-48.	2.1	318
15	Magma Flow Instability and Cyclic Activity at Soufriere Hills Volcano, Montserrat, British West Indies. <i>Science</i> , 1999, 283, 1138-1142.	12.6	274
16	Petrogenesis of Mafic Inclusions in Granitoids of the Adamello Massif, Italy. <i>Journal of Petrology</i> , 1992, 33, 1039-1104.	2.8	265
17	Magma Evolution and Open-System Processes at Shiveluch Volcano: Insights from Phenocryst Zoning. <i>Journal of Petrology</i> , 2006, 47, 2303-2334.	2.8	237
18	Komatiites I: Eruption and Flow. <i>Journal of Petrology</i> , 1985, 26, 694-725.	2.8	230

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19	How volcanoes work: A 25 year perspective. <i>Bulletin of the Geological Society of America</i> , 2013, 125, 664-690.	3.3	220
20	Construction and evolution of igneous bodies: Towards an integrated perspective of crustal magmatism. <i>Lithos</i> , 2015, 230, 206-221.	1.4	216
21	Experimental studies of the fluidization of layered sediments and the formation of fluid escape structures. <i>Sedimentology</i> , 1994, 41, 233-253.	3.1	215
22	Chemical differentiation, cold storage and remobilization of magma in the Earth's crust. <i>Nature</i> , 2018, 564, 405-409.	27.8	211
23	Experimental phase equilibria constraints on pre-eruptive storage conditions of the Soufriere Hills magma. <i>Geophysical Research Letters</i> , 1998, 25, 3437-3440.	4.0	201
24	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.	2.8	191
25	Monitoring Volcanoes. <i>Science</i> , 2012, 335, 1310-1311.	12.6	185
26	Formation and dynamics of magma reservoirs. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2019, 377, 20180019.	3.4	184
27	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.	4.0	182
28	Global link between deformation and volcanic eruption quantified by satellite imagery. <i>Nature Communications</i> , 2014, 5, 3471.	12.8	176
29	Degassing during magma ascent in the Mule Creek vent (USA). <i>Bulletin of Volcanology</i> , 1996, 58, 117-130.	3.0	169
30	Basanite-Phonolite Lineages of the Teide-Pico Viejo Volcanic Complex, Tenerife, Canary Islands. <i>Journal of Petrology</i> , 1998, 39, 905-936.	2.8	166
31	Entrainment into two-dimensional and axisymmetric turbulent gravity currents. <i>Journal of Fluid Mechanics</i> , 1996, 308, 289-311.	3.4	165
32	Postcumulus processes in layered intrusions. <i>Geological Magazine</i> , 1985, 122, 555-568.	1.5	161
33	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.	4.0	157
34	Pyroclastic flows generated by gravitational instability of the 1996-97 Lava Dome of Soufriere Hills Volcano, Montserrat. <i>Geophysical Research Letters</i> , 1998, 25, 3425-3428.	4.0	157
35	Periodic behavior in lava dome eruptions. <i>Earth and Planetary Science Letters</i> , 2002, 199, 173-184.	4.4	148
36	The 1984 to 1996 cyclic activity of Lascar Volcano, northern Chile: cycles of dome growth, dome subsidence, degassing and explosive eruptions. <i>Bulletin of Volcanology</i> , 1997, 59, 72-82.	3.0	143

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37	Controls on conduit magma flow dynamics during lava dome building eruptions. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	143
38	The 1975 sub-terminal lavas, mount etna: a case history of the formation of a compound lava field. <i>Journal of Volcanology and Geothermal Research</i> , 1976, 1, 167-182.	2.1	136
39	The 1999 and 2000 eruptions of Mount Cameroon: eruption behaviour and petrochemistry of lava. <i>Bulletin of Volcanology</i> , 2003, 65, 267-281.	3.0	136
40	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.	4.0	125
41	Geomorphological evolution of Montserrat (West Indies): importance of flank collapse and erosional processes. <i>Journal of the Geological Society</i> , 2004, 161, 147-160.	2.1	124
42	Charge measurements on particle fallout from a volcanic plume. <i>Nature</i> , 1991, 349, 598-600.	27.8	122
43	Post-emplacement serpentinization and related hydrothermal metamorphism in a kimberlite from Venetia, South Africa. <i>Journal of Metamorphic Geology</i> , 2006, 24, 515-534.	3.4	116
44	Convection and crystallization in magma cooled from above. <i>Earth and Planetary Science Letters</i> , 1990, 101, 78-89.	4.4	114
45	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.	2.1	114
46	Chapter 1 An overview of the eruption of Soufriere Hills Volcano, Montserrat from 2000 to 2010. <i>Geological Society Memoir</i> , 2014, 39, 1-40.	1.7	114
47	Crustal-scale degassing due to magma system destabilization and magma-gas decoupling at Soufriere Hills Volcano, Montserrat. <i>Geochemistry, Geophysics, Geosystems</i> , 2015, 16, 2797-2811.	2.5	113
48	Petrologic constraints on the decompression history of magma prior to Vulcanian explosions at the Soufriere Hills volcano, Montserrat. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 161, 261-274.	2.1	111
49	Experimental simulations of explosive degassing of magma. <i>Nature</i> , 1994, 372, 85-88.	27.8	108
50	Kimberlite Volcanism. <i>Annual Review of Earth and Planetary Sciences</i> , 2013, 41, 497-528.	11.0	108
51	The nature of erupting kimberlite melts. <i>Lithos</i> , 2009, 112, 429-438.	1.4	106
52	Controls of conduit geometry and wallrock elasticity on lava dome eruptions. <i>Earth and Planetary Science Letters</i> , 2007, 260, 137-151.	4.4	105
53	Sedimentation from gravity currents generated by turbulent plumes. <i>Sedimentology</i> , 1991, 38, 839-856.	3.1	102
54	Control of magma flow in dykes on cyclic lava dome extrusion. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	101

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55	The explosive eruption of Soufriere Hills Volcano, Montserrat, West Indies, 17 September, 1996. <i>Geophysical Research Letters</i> , 1998, 25, 3429-3432.	4.0	99
56	Submarine pyroclastic deposits formed at the Soufrière Hills volcano, Montserrat (1995–2003): What happens when pyroclastic flows enter the ocean?. <i>Geology</i> , 2006, 34, 549.	4.4	99
57	Erosion by pyroclastic flows on Lascar Volcano, Chile. <i>Bulletin of Volcanology</i> , 1997, 58, 557-565.	3.0	98
58	The volcanic evolution of Montserrat using $^{40}\text{Ar}/^{39}\text{Ar}$ geochronology. <i>Geological Society Memoir</i> , 2002, 21, 93-113.	1.7	98
59	Dense welding caused by volatile resorption. <i>Journal of the Geological Society</i> , 1999, 156, 217-225.	2.1	96
60	Dynamics of magma degassing. <i>Geological Society Special Publication</i> , 2003, 213, 5-22.	1.3	96
61	Thermodynamics and fluid dynamics of effusive subglacial eruptions. <i>Bulletin of Volcanology</i> , 1997, 59, 219-230.	3.0	93
62	The 1973 Heimaey Strombolian Scoria deposit, Iceland. <i>Geological Magazine</i> , 1974, 111, 539-548.	1.5	91
63	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.	1.7	89
64	Entrainment in turbulent gravity currents. <i>Nature</i> , 1993, 362, 829-831.	27.8	87
65	On the variations of flow rate in non-explosive lava eruptions. <i>Earth and Planetary Science Letters</i> , 1993, 114, 505-516.	4.4	87
66	The volcanological significance of deep-sea ash layers associated with ignimbrites. <i>Geological Magazine</i> , 1980, 117, 425-436.	1.5	86
67	Unprecedented pressure increase in deep magma reservoir triggered by lava-dome collapse. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	84
68	Morphological, structural and textural variations in the 1988–1990 andesite lava of Lonquimay Volcano, Chile. <i>Geological Magazine</i> , 1992, 129, 657-678.	1.5	83
69	Temperature changes in ascending kimberlite magma. <i>Earth and Planetary Science Letters</i> , 2009, 286, 404-413.	4.4	79
70	The eruption of Soufrière Hills Volcano, Montserrat (1995-1999): overview of scientific results. <i>Geological Society Memoir</i> , 2002, 21, 45-69.	1.7	77
71	The 2001–2004 dome-forming eruption of Shiveluch volcano, Kamchatka: Observation, petrological investigation and numerical modelling. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 155, 201-226.	2.1	76
72	The role of fluidisation in the formation of volcanoclastic kimberlite: Grain size observations and experimental investigation. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 155, 119-137.	2.1	75

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73	The volatile content of hypabyssal kimberlite magmas: some constraints from experiments on natural rock compositions. <i>Bulletin of Volcanology</i> , 2011, 73, 959-981.	3.0	74
74	Sedimentation of particles from a convecting fluid. <i>Nature</i> , 1990, 343, 447-450.	27.8	71
75	Magma chamber properties from integrated seismic tomography and thermal modeling at Montserrat. <i>Geochemistry, Geophysics, Geosystems</i> , 2012, 13, .	2.5	70
76	The 1995â€“1998 eruption of the SoufriÃ©re Hills volcano, Montserrat, WI. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2000, 358, 1619-1637.	3.4	68
77	Distribution of volcanoes in active margins. <i>Journal of Geophysical Research</i> , 1995, 100, 20421-20432.	3.3	67
78	Modelling ground deformation caused by oscillating overpressure in a dyke conduit at SoufriÃ©re Hills Volcano, Montserrat. <i>Tectonophysics</i> , 2009, 471, 87-95.	2.2	67
79	The sources of granitic melt in Deep Hot Zones. <i>Transactions of the Royal Society of Edinburgh: Earth Sciences</i> , 2008, 97, 297-309.	0.7	64
80	Upper crustal structure of an active volcano from refraction/reflection tomography, Montserrat, Lesser Antilles. <i>Geophysical Journal International</i> , 2010, 180, 685-696.	2.4	63
81	Thermal models of dyke intrusion during development of continentâ€“ocean transition. <i>Earth and Planetary Science Letters</i> , 2014, 385, 145-153.	4.4	62
82	Synthesis: PLUTONS: Investigating the relationship between pluton growth and volcanism in the Central Andes. , 2018, 14, 954-982.		61
83	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.	3.1	60
84	Shallow-level decompression crystallisation and deep magma supply at Shiveluch Volcano. <i>Contributions To Mineralogy and Petrology</i> , 2007, 155, 45-61.	3.1	58
85	Bifurcation of volcanic plumes in a crosswind. <i>Bulletin of Volcanology</i> , 1994, 56, 159-169.	3.0	57
86	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.	1.4	57
87	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.	2.1	56
88	The differentiation of the Skaergaard intrusion. <i>Contributions To Mineralogy and Petrology</i> , 1990, 104, 248-251.	3.1	54
89	Eruption of kimberlite magmas: physical volcanology, geomorphology and age of the youngest kimberlitic volcanoes known on earth (the Upper Pleistocene/Holocene Igwisi Hills volcanoes,) <i>Tj ETQq1 1 0.784314.cgBT /Overlock 101</i>		53
90	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, 446-461.	3.1	52

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91	Global volcanic hazard and risk. , 2015, , 81-172.		52
92	The global magnitude–frequency relationship for large explosive volcanic eruptions. Earth and Planetary Science Letters, 2018, 482, 621-629.	4.4	52
93	Gas-fluidisation in an experimental tapered bed: Insights into processes in diverging volcanic conduits. Journal of Volcanology and Geothermal Research, 2008, 174, 49-56.	2.1	50
94	From Vulcanian explosions to sustained explosive eruptions: The role of diffusive mass transfer in conduit flow dynamics. Journal of Volcanology and Geothermal Research, 2006, 153, 148-165.	2.1	49
95	The dynamics of xenolith assimilation. Contributions To Mineralogy and Petrology, 1998, 132, 21-33.	3.1	48
96	Mechanically disrupted and chemically weakened zones in segmented dike systems cause vent localization: Evidence from kimberlite volcanic systems. Geology, 2007, 35, 815.	4.4	48
97	Behaviour of particle-laden flows into the ocean: experimental simulation and geological implications. Sedimentology, 1999, 46, 523-536.	3.1	47
98	The Ground Surge Deposit: a Third Type of Pyroclastic Rock. Nature: Physical Science, 1973, 241, 62-64.	0.8	46
99	Hornblende dehydration reactions during magma ascent at Soufrière Hills Volcano, Montserrat. Contributions To Mineralogy and Petrology, 2006, 151, 121-140.	3.1	46
100	Effect of mechanical heterogeneity in arc crust on volcano deformation with application to Soufrière Hills Volcano, Montserrat, West Indies. Journal of Geophysical Research, 2010, 115, .	3.3	46
101	Fiamme formed by diagenesis and burial-compaction in soils and subaqueous sediments. Journal of the Geological Society, 1990, 147, 919-922.	2.1	45
102	Long term exposure to respirable volcanic ash on Montserrat: a time series simulation. Bulletin of Volcanology, 2006, 68, 266-284.	3.0	43
103	Three-dimensional seismic velocity tomography of Montserrat from the SEA-CALIPSO offshore/onshore experiment. Geophysical Research Letters, 2010, 37, .	4.0	43
104	Similarities and differences in the historical records of lava dome-building volcanoes: Implications for understanding magmatic processes and eruption forecasting. Earth-Science Reviews, 2016, 160, 240-263.	9.1	42
105	Geology of a complex kimberlite pipe (K2 pipe, Venetia Mine, South Africa): insights into conduit processes during explosive ultrabasic eruptions. Bulletin of Volcanology, 2009, 71, 95-112.	3.0	41
106	The role of gas-fluidisation in the formation of massive volcanoclastic kimberlite. Lithos, 2009, 112, 439-451.	1.4	40
107	Evolution of crust- and core-dominated lava flows using scaling analysis. Bulletin of Volcanology, 2013, 75, 1.	3.0	40
108	Physical characteristics of tephra layers in the deep sea realm: the Campanian Ignimbrite eruption. Geological Society Special Publication, 2014, 398, 47-64.	1.3	39

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109	Magma Emplacement Rates and Porphyry Copper Deposits: Thermal Modeling of the Yerington Batholith, Nevada. <i>Economic Geology</i> , 2017, 112, 1653-1672.	3.8	38
110	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, 11170-11191.	3.4	38
111	Cyclic activity at Soufrière Hills Volcano, Montserrat: degassing-induced pressurization and stick-slip extrusion. <i>Geological Society Special Publication</i> , 2008, 307, 169-188.	1.3	37
112	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.	3.0	37
113	Hydrothermal alteration of kimberlite by convective flows of external water. <i>Contributions To Mineralogy and Petrology</i> , 2014, 168, 1038.	3.1	36
114	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.	1.4	35
115	Non-explosive, constructional evolution of the ice-filled caldera at Volcán Sollipulli, Chile. <i>Bulletin of Volcanology</i> , 1996, 58, 67-83.	3.0	33
116	A stress-controlled mechanism for the intensity of very large magnitude explosive eruptions. <i>Earth and Planetary Science Letters</i> , 2011, 310, 161-166.	4.4	33
117	KIMBERLITE SILLS AND DYKES ASSOCIATED WITH THE WESSELTON KIMBERLITE PIPE, KIMBERLEY, SOUTH AFRICA. <i>South African Journal of Geology</i> , 2012, 115, 1-32.	1.2	33
118	On the Welding of Pyroclasts from Very Low-Viscosity Magmas: Examples from Kimberlite Volcanoes. <i>Journal of Geology</i> , 2008, 116, 354-374.	1.4	32
119	Perovskite from the Dutoitspan kimberlite, Kimberley, South Africa: implications for magmatic processes. <i>Mineralogical Magazine</i> , 2009, 73, 915-928.	1.4	30
120	Strain field analysis on Montserrat (W.I.) as tool for assessing permeable flow paths in the magmatic system of Soufrière Hills Volcano. <i>Geochemistry, Geophysics, Geosystems</i> , 2014, 15, 676-690.	2.5	30
121	The economic potential of metalliferous sub-volcanic brines. <i>Royal Society Open Science</i> , 2021, 8, 202192.	2.4	30
122	Dynamics of co-ignimbrite plumes generated from pyroclastic flows of Mount St. Helens (7 August) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 5	3.0	28
123	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.	3.1	28
124	Risk Perceptions and Trust Following the 2010 and 2011 Icelandic Volcanic Ash Crises. <i>Risk Analysis</i> , 2015, 35, 332-343.	2.7	28
125	Melting of a sphere in hot fluid. <i>Journal of Fluid Mechanics</i> , 1996, 327, 393-409.	3.4	26
126	Degassing structures in volcanoclastic kimberlite: Examples from southern African kimberlite pipes. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 174, 186-194.	2.1	26

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127	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. <i>Geochemistry, Geophysics, Geosystems</i> , 2013, 14, 385-406.	2.5	26
128	The Gravitational Stability of Lenses in Magma Mushes: Confined Rayleigh-Taylor Instabilities. <i>Journal of Geophysical Research: Solid Earth</i> , 2018, 123, 3593-3607.	3.4	26
129	Rapid emergency assessment of ash and gas hazard for future eruptions at Santorini Volcano, Greece. <i>Journal of Applied Volcanology</i> , 2015, 4, .	2.0	24
130	The 72 ka subplinian eruption of Montaña Blanca, Tenerife. <i>Bulletin of Volcanology</i> , 1995, 57, 337-355.	3.0	23
131	Depositional processes in a kimberlite crater: the Upper Cretaceous Orapa South Pipe (Botswana). <i>Sedimentology</i> , 2009, 56, 623-643.	3.1	23
132	Scientists' views about lay perceptions of volcanic hazard and risk. <i>Journal of Applied Volcanology</i> , 2014, 3, .	2.0	23
133	Explosion dynamics from strainmeter and microbarometer observations, Soufrière Hills Volcano, Montserrat: 2008-2009. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	22
134	Kimberlite Volcanology: Transport, Ascent, and Eruption. <i>Elements</i> , 2019, 15, 405-410.	0.5	21
135	Emplacement temperatures of pyroclastic and volcanoclastic deposits in kimberlite pipes in southern Africa. <i>Bulletin of Volcanology</i> , 2011, 73, 1063-1083.	3.0	20
136	Quantification of the Intrusive Magma Fluxes during Magma Chamber Growth at Soufriere Hills Volcano (Montserrat, Lesser Antilles). <i>Journal of Petrology</i> , 2014, 55, 529-548.	2.8	20
137	An introduction to global volcanic hazard and risk. , 2015, , 1-80.		20
138	Pyroclastic flow deposits from a kimberlite eruption: The Orapa South Crater, Botswana. <i>Lithos</i> , 2009, 112, 566-578.	1.4	19
139	Degassing in kimberlite: Oxygen isotope ratios in perovskites from explosive and hypabyssal kimberlites. <i>Earth and Planetary Science Letters</i> , 2011, 312, 291-299.	4.4	19
140	Contrasts in morphology and deformation offshore Montserrat: New insights from the SEA-CALIPSO marine cruise data. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	18
141	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.	1.5	18
142	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.	3.3	18
143	Understanding causality and uncertainty in volcanic observations: An example of forecasting eruptive activity on Soufrière Hills Volcano, Montserrat. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 341, 287-300.	2.1	18
144	Unique strainmeter observations of Vulcanian explosions, Soufrière Hills Volcano, Montserrat, July 2003. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	17

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145	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.	2.1	17
146	Lesions Associated with Mineral Deposition in the Lymph Node and Lung of the Dog. <i>Veterinary Pathology</i> , 1996, 33, 29-42.	1.7	16
147	Transtensional deformation of Montserrat revealed by shear wave splitting. <i>Earth and Planetary Science Letters</i> , 2015, 425, 179-186.	4.4	16
148	Causes of fragmented crystals in ignimbrites: a case study of the Cardones ignimbrite, Northern Chile. <i>Bulletin of Volcanology</i> , 2018, 80, 1.	3.0	16
149	Petrogenesis of the Large-volume Cardones Ignimbrite, Chile; Development and Destabilization of a Complex Magma-Mush System. <i>Journal of Petrology</i> , 2017, 58, 1975-2006.	2.8	15
150	Risk perception at a persistently active volcano: warnings and trust at Popocatepetl volcano in Mexico, 2012-2014. <i>Bulletin of Volcanology</i> , 2018, 80, 1.	3.0	15
151	Kimberlite ascent and eruption. <i>Nature</i> , 2007, 450, E21-E21.	27.8	13
152	Problems with an in-vent column collapse model for the emplacement of massive volcanoclastic kimberlite. A discussion of 'In-vent column collapse as an alternative model for massive volcanoclastic kimberlite emplacement: An example from the Fox kimberlite, Ekati Diamond Mine, NWT, Canada' by Porritt et al. [<i>J. Volcanol. Geotherm. Res.</i> 174, 90-102]. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 178, 847-850.	2.1	13
153	Risk and uncertainty assessment of volcanic hazards. , 2013, , 364-397.		11
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