

Stephen Self

List of Publications by Year in descending order

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124
papers

9,247
citations

53751

45
h-index

40954

93
g-index

130
all docs

130
docs citations

130
times ranked

6052
citing authors

#	ARTICLE	IF	CITATIONS
1	The volcanic explosivity index (VEI) an estimate of explosive magnitude for historical volcanism. <i>Journal of Geophysical Research</i> , 1982, 87, 1231-1238.	3.3	1,510
2	Volcanic winter and accelerated glaciation following the Toba super-eruption. <i>Nature</i> , 1992, 359, 50-52.	13.7	395
3	Atmospheric and environmental effects of the 1783–1784 Laki eruption: A review and reassessment. <i>Journal of Geophysical Research</i> , 2003, 108, AAC 7-1.	3.3	367
4	State shift in Deccan volcanism at the Cretaceous-Paleogene boundary, possibly induced by impact. <i>Science</i> , 2015, 350, 76-78.	6.0	300
5	Volatile fluxes during flood basalt eruptions and potential effects on the global environment: A Deccan perspective. <i>Earth and Planetary Science Letters</i> , 2006, 248, 518-532.	1.8	273
6	The eruptive tempo of Deccan volcanism in relation to the Cretaceous-Paleogene boundary. <i>Science</i> , 2019, 363, 866-870.	6.0	254
7	The largest volcanic eruptions on Earth. <i>Earth-Science Reviews</i> , 2010, 102, 207-229.	4.0	251
8	The 1883 eruption of Krakatau. <i>Nature</i> , 1981, 294, 699-704.	13.7	230
9	Tarawera 1886, New Zealand – A basaltic plinian fissure eruption. <i>Journal of Volcanology and Geothermal Research</i> , 1984, 21, 61-78.	0.8	215
10	Historic Eruptions of Tambora (1815), Krakatau (1883), and Agung (1963), their Stratospheric Aerosols, and Climatic Impact. <i>Quaternary Research</i> , 1982, 18, 127-143.	1.0	213
11	Ukinrek Maars, Alaska, II. Deposits and formation of the 1977 craters. <i>Journal of Volcanology and Geothermal Research</i> , 1980, 7, 39-65.	0.8	205
12	A working terminology of pyroclastic deposits. <i>Journal of Volcanology and Geothermal Research</i> , 1980, 8, 315-336.	0.8	179
13	Ukinrek Maars, Alaska, I. April 1977 eruption sequence, petrology and tectonic setting. <i>Journal of Volcanology and Geothermal Research</i> , 1980, 7, 11-37.	0.8	167
14	Sulfur and Chlorine in Late Cretaceous Deccan Magmas and Eruptive Gas Release. <i>Science</i> , 2008, 319, 1654-1657.	6.0	166
15	Collapsing Volcanoes. <i>Scientific American</i> , 1987, 256, 90-97.	1.0	164
16	The possible effects of large 19th and 20th century volcanic eruptions on zonal and hemispheric surface temperatures. <i>Journal of Volcanology and Geothermal Research</i> , 1981, 11, 41-60.	0.8	162
17	The October 1902 plinian eruption of Santa Maria volcano, Guatemala. <i>Journal of Volcanology and Geothermal Research</i> , 1983, 16, 33-56.	0.8	162
18	Sulphur-rich volcanic eruptions and stratospheric aerosols. <i>Nature</i> , 1984, 310, 677-679.	13.7	161

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19	Climate-Volcanism Feedback and the Toba Eruption of $\hat{a}^1/474,000$ Years Ago. <i>Quaternary Research</i> , 1993, 40, 269-280.	1.0	157
20	Extension and rotation of crustal blocks in northern Central America and effect on the volcanic arc. <i>Geology</i> , 1985, 13, 22.	2.0	150
21	Triggering of the largest Deccan eruptions by the Chicxulub impact. <i>Bulletin of the Geological Society of America</i> , 2015, 127, 1507-1520.	1.6	149
22	Emplacement of Continental Flood Basalt Lava Flows. <i>Geophysical Monograph Series</i> , 0, , 381-410.	0.1	132
23	Gas Fluxes from Flood Basalt Eruptions. <i>Elements</i> , 2005, 1, 283-287.	0.5	120
24	Large-scale phreatomagmatic silicic volcanism: A case study from New Zealand. <i>Journal of Volcanology and Geothermal Research</i> , 1983, 17, 433-469.	0.8	118
25	Correlation of the Deccan and Rajahmundry Trap lavas: Are these the longest and largest lava flows on Earth?. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 172, 3-19.	0.8	114
26	Tambora 1815 as a test case for high impact volcanic eruptions: Earth system effects. <i>Wiley Interdisciplinary Reviews: Climate Change</i> , 2016, 7, 569-589.	3.6	105
27	The Recent volcanology of Terceira, Azores. <i>Journal of the Geological Society</i> , 1976, 132, 645-666.	0.9	100
28	Basaltic fissure eruptions, plume heights, and atmospheric aerosols. <i>Geophysical Research Letters</i> , 1986, 13, 725-728.	1.5	97
29	Flood lavas on Earth, Io and Mars. <i>Journal of the Geological Society</i> , 2006, 163, 253-264.	0.9	96
30	Selective environmental stress from sulphur emitted by continental flood basalt eruptions. <i>Nature Geoscience</i> , 2016, 9, 77-82.	5.4	92
31	The 1452 or 1453 A.D. Kuwae eruption signal derived from multiple ice core records: Greatest volcanic sulfate event of the past 700 years. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	91
32	Petrology and sulfur and chlorine emissions of the 1963 eruption of Gunung Agung, Bali, Indonesia. <i>Bulletin of Volcanology</i> , 1996, 58, 263-285.	1.1	89
33	Nature and significance of small volume fall deposits at composite volcanoes: Insights from the October 14, 1974 Fuego eruption, Guatemala. <i>Bulletin of Volcanology</i> , 2008, 70, 1043-1067.	1.1	86
34	New $^{40}\text{Ar}/^{39}\text{Ar}$ dating of the Grande Ronde lavas, Columbia River Basalts, USA: Implications for duration of flood basalt eruption episodes. <i>Lithos</i> , 2010, 118, 213-222.	0.6	81
35	Consequences of Explosive Supereruptions. <i>Elements</i> , 2008, 4, 41-46.	0.5	79
36	Anticipating future Volcanic Explosivity Index (VEI) 7 eruptions and their chilling impacts. , 2018, 14, 572-603.		75

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37	Atmospheric Aerosol Loading and Transport Due to the 1783-84 Laki Eruption in Iceland, Interpreted from Ash Particles and Acidity in the GISP2 Ice Core. <i>Quaternary Research</i> , 1994, 42, 231-240.	1.0	72
38	The physical volcanology of the 1600 eruption of Huaynaputina, southern Peru. <i>Bulletin of Volcanology</i> , 2001, 62, 493-518.	1.1	71
39	Plant spore walls as a record of long-term changes in ultraviolet-B radiation. <i>Nature Geoscience</i> , 2008, 1, 592-596.	5.4	68
40	Thermal disequilibrium at the top of volcanic clouds and its effect on estimates of the column height. <i>Nature</i> , 1992, 355, 628-630.	13.7	65
41	New palaeomagnetic data from the Mahabaleshwar Plateau, Deccan Flood Basalt Province, India: implications for the volcanostratigraphic architecture of continental flood basalt provinces. <i>Journal of the Geological Society</i> , 2009, 166, 13-24.	0.9	63
42	Petrology, volume and age relations of alkaline and saturated peralkaline volcanics from Terceira, Azores. <i>Contributions To Mineralogy and Petrology</i> , 1976, 54, 293-313.	1.2	58
43	Experiments on gas-ash separation processes in volcanic umbrella plumes. <i>Journal of Volcanology and Geothermal Research</i> , 1996, 70, 169-181.	0.8	58
44	Rapid determination of spore chemistry using thermochemolysis gas chromatography-mass spectrometry and micro-Fourier transform infrared spectroscopy. <i>Photochemical and Photobiological Sciences</i> , 2007, 6, 689.	1.6	58
45	A Cryptoendolithic Community in Volcanic Glass. <i>Astrobiology</i> , 2009, 9, 369-381.	1.5	55
46	Ashfall dispersal for the 16 September 1986, eruption of Lascar, Chile, calculated by a turbulent diffusion model. <i>Geophysical Research Letters</i> , 1991, 18, 1237-1240.	1.5	50
47	Bacterial Colonization and Weathering of Terrestrial Obsidian in Iceland. <i>Geomicrobiology Journal</i> , 2008, 25, 25-37.	1.0	49
48	Volcanic air pollution and mortality in France 1783-1784. <i>Comptes Rendus - Geoscience</i> , 2005, 337, 641-651.	0.4	46
49	Changes in spore chemistry and appearance with increasing maturity. <i>Review of Palaeobotany and Palynology</i> , 2014, 201, 41-46.	0.8	46
50	Widespread, lavalike silicic volcanic rocks of Trans-Pecos Texas. <i>Geology</i> , 1988, 16, 509.	2.0	45
51	Role of Syn-eruptive Cooling and Degassing on Textures of Lavas from the AD 1783-1784 Laki Eruption, South Iceland. <i>Journal of Petrology</i> , 2007, 48, 1265-1294.	1.1	44
52	Krakatau revisited: The course of events and interpretation of the 1883 eruption. <i>Geo Journal</i> , 1992, 28, 109.	1.7	42
53	The 1963-1964 eruption of Agung volcano (Bali, Indonesia). <i>Bulletin of Volcanology</i> , 2012, 74, 1521-1536.	1.1	42
54	Ålva flows in the Deccan Volcanic Province, India, and their significance for the nature of continental flood basalt eruptions. <i>Bulletin of Volcanology</i> , 2011, 73, 737-752.	1.1	41

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55	Aspects of Potential Magmatic Disruption of a High-Level Radioactive Waste Repository in Southern Nevada. <i>Journal of Geology</i> , 1983, 91, 259-276.	0.7	41
56	Quaternary silicic pyroclastic deposits of Atitlán Caldera, Guatemala. <i>Journal of Volcanology and Geothermal Research</i> , 1987, 33, 57-80.	0.8	40
57	Analysis of active volcanoes from the earth observing system. <i>Remote Sensing of Environment</i> , 1991, 36, 1-12.	4.6	40
58	UV-B absorbing pigments in spores: biochemical responses to shade in a high-latitude birch forest and implications for sporopollenin-based proxies of past environmental change. <i>Polar Research</i> , 2011, 30, 83-112.	1.6	38
59	The ~1000-years BP explosive eruption of Caldeira Volcano (Faial, Azores): the first stage of incremental caldera formation. <i>Bulletin of Volcanology</i> , 2015, 77, 1.	1.1	38
60	Processes and Timescales of Magma Genesis and Differentiation Leading to the Great Tambora Eruption in 1815. <i>Journal of Petrology</i> , 2012, 53, 271-297.	1.1	37
61	Monitoring the evolution of the Pasig Potrero alluvial fan, Pinatubo Volcano, using a decade of remote sensing data. <i>Journal of Volcanology and Geothermal Research</i> , 2004, 138, 371-392.	0.8	36
62	Estimating the eruptive volume of a large pyroclastic body: the Otowi Member of the Bandelier Tuff, Valles caldera, New Mexico. <i>Bulletin of Volcanology</i> , 2016, 78, 1.	1.1	36
63	Discrimination of fluvial and eolian features on large ignimbrite sheets around La Pacana Caldera, Chile, using Landsat and SRTM-derived DEM. <i>Remote Sensing of Environment</i> , 2007, 108, 24-41.	4.6	34
64	Climatic impact of the long-lasting 1783 Laki eruption: Inapplicability of mass-independent sulfur isotopic composition measurements. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	32
65	Sulfur release from the Columbia River Basalts and other flood lava eruptions constrained by a model of sulfide saturation. <i>Earth and Planetary Science Letters</i> , 2010, 299, 328-338.	1.8	31
66	Assessing eruption column height in ancient flood basalt eruptions. <i>Earth and Planetary Science Letters</i> , 2017, 457, 263-270.	1.8	31
67	Structural lineaments and neogene volcanism in southwestern Luzon. <i>Geophysical Monograph Series</i> , 1983, , 157-172.	0.1	30
68	Volcanogenic nutrient fluxes and plant ecosystems in large igneous provinces: an example from the Columbia River Basalt Group. <i>Journal of the Geological Society</i> , 2008, 165, 955-966.	0.9	29
69	Timing of events during the late Proterozoic Beardmore Orogeny, Antarctica: Geological evidence from the La Gorce Mountains. <i>Bulletin of the Geological Society of America</i> , 1986, 97, 953.	1.6	25
70	Morphology, surface structures, and emplacement of lavas produced by Laki, A.D. 1783–1784. , 2005, , .		23
71	Topographic controls on pyroclastic density current dynamics: Insight from 18 May 1980 deposits at Mount St. Helens, Washington (USA). <i>Journal of Volcanology and Geothermal Research</i> , 2016, 321, 1-17.	0.8	23
72	Remote sensing of volcanoes and volcanic terrains. <i>Eos</i> , 1989, 70, 1567.	0.1	22

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73	The AD 1362 Fagfellskull eruption, S.E. Iceland: Physical volcanology and volatile release. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 178, 719-739.	0.8	22
74	Petrogenesis of the Peralkaline Ignimbrites of Terceira, Azores. <i>Journal of Petrology</i> , 2017, 58, 2365-2402.	1.1	21
75	Climatic effects of Volcanic eruptions. <i>Nature</i> , 1985, 313, 272-272.	13.7	20
76	No Cretaceous–Paleogene Boundary in Exposed Rajahmundry Traps: A Refined Chronology of the Longest Deccan Lava Flows From ⁴⁰ Ar/ ³⁹ Ar Dates, Magnetostratigraphy, and Biostratigraphy. <i>Geochemistry, Geophysics, Geosystems</i> , 2020, 21, e2020GC009149.	1.0	20
77	Wairakei Formation, New Zealand: Stratigraphy and correlation. <i>New Zealand Journal of Geology, and Geophysics</i> , 1987, 30, 73-86.	1.0	19
78	Segregation processes in vesiculating crystallizing magmas. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 153, 287-300.	0.8	18
79	Ignimbrite stratigraphy and chronology on Terceira Island, Azores. , 2010, , .		17
80	Osmium isotope variations accompanying the eruption of a single lava flow field in the Columbia River Flood Basalt Province. <i>Earth and Planetary Science Letters</i> , 2013, 368, 183-194.	1.8	16
81	Thickness Characteristics of Pahoehoe Lavas in the Deccan Province, Western Ghats, India, and in Continental Flood Basalt Provinces Elsewhere. <i>Frontiers in Earth Science</i> , 2021, 8, .	0.8	16
82	Comments on "a geophysical interpretation of the 1883 Krakatau eruption" by I. Yokoyama. <i>Journal of Volcanology and Geothermal Research</i> , 1982, 13, 379-383.	0.8	15
83	Lava-dome growth and explosive volcanism in the Jemez Mountains, New Mexico: Evidence from the plio-pleistocene puye alluvial fan. <i>Journal of Volcanology and Geothermal Research</i> , 1989, 36, 267-291.	0.8	15
84	Subplinian monogenetic basaltic eruption of Sunset Crater, Arizona, USA. <i>Bulletin of the Geological Society of America</i> , 2019, 131, 661-674.	1.6	15
85	Lava-Rise Plateaus and Inflation Pits in the McCartys Lava Flow Field, New Mexico: An Analog for Pahoehoe-Like Lava Flows on Planetary Surfaces. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE005975.	1.5	15
86	Explosive Super-Eruptions and Potential Global Impacts. , 2015, , 399-418.		12
87	Evenly spaced columns in the Bishop Tuff (California, USA) as relicts of hydrothermal cooling. <i>Geology</i> , 2017, 45, 1015-1018.	2.0	12
88	Deposition and generation of multiple widespread fall units from the c. AD 1314 Kaharoa rhyolitic eruption, Tarawera, New Zealand. <i>Bulletin of Volcanology</i> , 2014, 76, 1.	1.1	11
89	Enigmatic clastogenic rhyolitic volcanism: The Corral de Coquena spatter ring, North Chile. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 177, 812-821.	0.8	10
90	Toward Understanding Deccan Volcanism. <i>Annual Review of Earth and Planetary Sciences</i> , 2022, 50, 477-506.	4.6	10

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91	Tying down eruption risk. <i>Nature Geoscience</i> , 2015, 8, 248-250.	5.4	9
92	Effects of megascale eruptions on Earth and Mars. , 2009, , .		8
93	Large Igneous Provinces and Biotic Extinctions. , 2015, , 1049-1058.		8
94	Large Igneous Provinces and Flood Basalt Volcanism. , 2015, , 441-455.		8
95	Exposed columns in the Valles Caldera ignimbrites as records of hydrothermal cooling, Jemez Mountains, New Mexico, USA. <i>Journal of Volcanology and Geothermal Research</i> , 2022, 426, 107536.	0.8	8
96	Volcanic eruptions, prediction, hazard assessment, remote sensing, and societal implications. <i>Reviews of Geophysics</i> , 1995, 33, 257.	9.0	7
97	The great 1815 eruption of Tambora and future risks from large-scale volcanism. <i>Geology Today</i> , 2015, 31, 132-136.	0.3	7
98	Soft-sediment deformation (fluid escape) features in a coarse-grained pyroclastic surge deposit, north-central New Mexico. <i>Sedimentology</i> , 1989, 36, 943-947.	1.6	5
99	Explosive activity of Ngauruhoe, 27-30 March 1974. <i>New Zealand Journal of Geology, and Geophysics</i> , 1975, 18, 189-195.	1.0	4
100	Comments on the petrology of Tambora volcano, Indonesia: a model for the 1815 eruption by J. Foden. <i>Journal of Volcanology and Geothermal Research</i> , 1987, 31, 163-166.	0.8	4
101	Floods of water and lava in the Columbia River Basin: Analogs for Mars. , 2009, , .		4
102	Volcanology. <i>Reviews of Geophysics</i> , 1987, 25, 1065-1078.	9.0	3
103	Wind-driven dispersal of volcanic ash plumes and its control on the thermal structure of the plume-top. <i>Bulletin of Volcanology</i> , 1995, 57, 283-292.	1.1	3
104	Wairakei Formation, New Zealand: Stratigraphy and correlation. <i>New Zealand Journal of Geology, and Geophysics</i> , 1988, 31, 391-396.	1.0	2
105	George Walker, 1926-2005. <i>Eos</i> , 2006, 87, 325.	0.1	2
106	Triggering of the largest Deccan eruptions by the Chicxulub impact: Reply. <i>Bulletin of the Geological Society of America</i> , 2017, 129, 256-256.	1.6	2
107	On Synchronous Supereruptions. <i>Frontiers in Earth Science</i> , 2022, 10, .	0.8	2
108	Volcanism and the atmosphere. <i>Eos</i> , 2012, 93, 511-514.	0.1	1

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109	Volatile release from flood basalt eruptions: understanding the potential environmental effects. , 2015, , 164-176.		1
110	Some Lava Flows May Not Have Been as Thick as They Appear. Geophysical Research Letters, 2021, 48, .	1.5	1
111	Capturing the Extreme in Volcanology: The Case for the Term "Supervolcano". Frontiers in Earth Science, 2022, 10, .	0.8	1
112	The Cooke-Ravian volume of volcanological papers. Journal of Volcanology and Geothermal Research, 1983, 19, 189-191.	0.8	0
113	Volcanic successions: Modern and ancient. Journal of Volcanology and Geothermal Research, 1989, 39, 355-356.	0.8	0
114	Mafic Dykes and Emplacement Mechanisms. Journal of Volcanology and Geothermal Research, 1992, 49, 385-386.	0.8	0
115	The year without a summer? World climate in 1816. Journal of Volcanology and Geothermal Research, 1993, 56, 173-174.	0.8	0
116	Volcanology and Geothermal Energy. Journal of Volcanology and Geothermal Research, 1994, 60, 330-331.	0.8	0
117	Carbon isotopic gradients in the Martian crust: implications for past or present life on Mars. , 2006, , .		0
118	Correction to "The 1452 or 1453 A.D. Kuwae eruption signal derived from multiple ice core records: Greatest volcanic sulfate event of the past 700 years". Journal of Geophysical Research, 2012, 117, n/a-n/a.	3.3	0
119	Reply to comment by Cole "Dai et al. on "Climatic impact of the long-lasting Laki eruption: Inapplicability of mass-independent sulfur isotope composition measurements". Journal of Geophysical Research D: Atmospheres, 2014, 119, 6636-6637.	1.2	0
120	Vent sites and flow directions of the Otowi ash flows (lower Bandelier Tuff), New Mexico: Discussion and reply. Bulletin of the Geological Society of America, 1987, 99, 601.	1.6	0
121	DON SWANSON'S CONTRIBUTIONS TO UNDERSTANDING FLOOD BASALT EMPLACEMENT RATES AND VENTS. , 2016, , .		0
122	CHANGING ERUPTION STYLES DURING THE ~1085 CE SUNSET CRATER ERUPTION, NORTHERN ARIZONA. , 2016, , .		0
123	THE ROLE OF GEOCHRONOLOGY IN LINKING FLOOD BASALTS TO MASS EXTINCTIONS. , 2018, , .		0
124	QUANTITATIVE ESTIMATES OF DECCAN FLOOD BASALT ERUPTIVE FLUXES AND CLIMATE CONSEQUENCES. , 2019, , .		0