

# Thor H Hansteen

## List of Publications by Year in descending order

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74  
papers

2,781  
citations

117625

34  
h-index

189892

50  
g-index

84  
all docs

84  
docs citations

84  
times ranked

2918  
citing authors

#	ARTICLE	IF	CITATIONS
1	Magma storage and underplating beneath Cumbre Vieja volcano, La Palma (Canary Islands). <i>Earth and Planetary Science Letters</i> , 2005, 236, 211-226.	4.4	168
2	Ocean acidification weakens the structural integrity of coralline algae. <i>Global Change Biology</i> , 2012, 18, 2804-2812.	9.5	132
3	Multi-stage magma ascent beneath the Canary Islands: evidence from fluid inclusions. <i>Contributions To Mineralogy and Petrology</i> , 1998, 132, 48-64.	3.1	117
4	An alternative data acquisition and evaluation strategy for improved isotope ratio precision using LA-MC-ICP-MS applied to stable and radiogenic strontium isotopes in carbonates. <i>Journal of Analytical Atomic Spectrometry</i> , 2008, 23, 955.	3.0	112
5	The magmatic plumbing system beneath El Hierro (Canary Islands): constraints from phenocrysts and naturally quenched basaltic glasses in submarine rocks. <i>Contributions To Mineralogy and Petrology</i> , 2009, 157, 593-607.	3.1	106
6	Magma Evolution of the Sete Cidades Volcano, S�o Miguel, Azores. <i>Journal of Petrology</i> , 2006, 47, 1375-1411.	2.8	96
7	The effects of flank collapses on volcano plumbing systems. <i>Geology</i> , 2009, 37, 1099-1102.	4.4	93
8	Fluid and silicate glass inclusions in ultramafic and mafic xenoliths from Hierro, Canary Islands: implications for mantle metasomatism. <i>Contributions To Mineralogy and Petrology</i> , 1991, 107, 242-254.	3.1	78
9	Magma storage and ascent during the 1995 eruption of Fogo, Cape Verde Archipelago. <i>Contributions To Mineralogy and Petrology</i> , 2011, 162, 751-772.	3.1	70
10	Combined bromine and chlorine release from large explosive volcanic eruptions: A threat to stratospheric ozone?. <i>Geology</i> , 2013, 41, 707-710.	4.4	68
11	Samples from the Jurassic ocean crust beneath Gran Canaria, La Palma and Lanzarote (Canary Islands). <i>Earth and Planetary Science Letters</i> , 1998, 163, 343-360.	4.4	67
12	Phenotypic plasticity of coralline algae in a High CO <sub>2</sub> world. <i>Ecology and Evolution</i> , 2013, 3, 3436-3446.	1.9	64
13	Fluid Inclusion Thermobarometry as a Tracer for Magmatic Processes. <i>Reviews in Mineralogy and Geochemistry</i> , 2008, 69, 143-177.	4.8	60
14	Changing depths of magma fractionation and stagnation during the evolution of an oceanic island volcano: La Palma (Canary Islands). <i>Journal of Volcanology and Geothermal Research</i> , 2006, 155, 285-306.	2.1	58
15	Oxygen isotope composition of xenoliths from the oceanic crust and volcanic edifice beneath Gran Canaria (Canary Islands): consequences for crustal contamination of ascending magmas. <i>Chemical Geology</i> , 2003, 193, 181-193.	3.3	56
16	Precipitation and growth of barite within hydrothermal vent deposits from the Endeavour Segment, Juan de Fuca Ridge. <i>Geochimica Et Cosmochimica Acta</i> , 2016, 173, 64-85.	3.9	55
17	Barometry of lavas from the 1951 eruption of Fogo, Cape Verde Islands: Implications for historic and prehistoric magma plumbing systems. <i>Journal of Volcanology and Geothermal Research</i> , 2012, 217-218, 73-90.	2.1	54
18	Pleistocene Underplating and Metasomatism of the Lower Continental Crust: a Xenolith Study. <i>Journal of Petrology</i> , 2000, 41, 331-356.	2.8	52

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19	Century-scale trends and seasonality in pH and temperature for shallow zones of the Bering Sea. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 2960-2965.	7.1	52
20	Floating stones off El Hierro, Canary Islands: xenoliths of pre-island sedimentary origin in the early products of the October 2011 eruption. Solid Earth, 2012, 3, 97-110.	2.8	49
21	Composition and evolution of submarine volcanic rocks from the central and western Canary Islands. International Journal of Earth Sciences, 2002, 91, 562-582.	1.8	48
22	Volcanic and geochemical evolution of the Teno massif, Tenerife, Canary Islands: Some repercussions of giant landslides on ocean island magmatism. Geochemistry, Geophysics, Geosystems, 2009, 10, .	2.5	47
23	Multi-stage evolution of the picritic Miðjúlifell rocks, SW Iceland: constraints from mineralogy and inclusions of glass and fluid in olivine. Contributions To Mineralogy and Petrology, 1991, 109, 225-239.	3.1	46
24	Doing fieldwork on the seafloor: Photogrammetric techniques to yield 3D visual models from ROV video. Computers and Geosciences, 2013, 52, 218-226.	4.2	46
25	Rates of magma ascent and depths of magma reservoirs beneath La Palma (Canary Islands). Terra Nova, 1997, 9, 117-121.	2.1	44
26	Influence of temperature and salinity on the trace element incorporation into statoliths of the common cuttlefish ( <i>Sepia officinalis</i> ). Marine Biology, 2007, 151, 1321-1330.	1.5	44
27	Statolith microchemistry traces the environmental history of the boreoatlantic armhook squid <i>Gonatus fabricii</i> . Marine Ecology - Progress Series, 2007, 333, 195-204.	1.9	43
28	Evolution of parental magmas of Miocene shield basalts of Gran Canaria (Canary Islands): constraints from crystal, melt and fluid inclusions in minerals. Contributions To Mineralogy and Petrology, 1996, 124, 422-435.	3.1	42
29	Food effects on statolith composition of the common cuttlefish ( <i>Sepia officinalis</i> ). Marine Biology, 2006, 150, 237-244.	1.5	40
30	A simplified procedure for the determination of stable chlorine isotope ratios ( $\delta^{37}\text{Cl}$ ) using LA-MC-ICP-MS. Journal of Analytical Atomic Spectrometry, 2008, 23, 769.	3.0	40
31	Upper mantle magma storage and transport under a Canarian shield volcano, Teno, Tenerife (Spain). Journal of Geophysical Research, 2008, 113, .	3.3	39
32	Trace element mobility during sub-seafloor alteration of basaltic glass from Ocean Drilling Program site 953 (off Gran Canaria). International Journal of Earth Sciences, 2002, 91, 661-679.	1.8	38
33	Volatile ( $\text{H}_2\text{O}$ , $\text{CO}_2$ , $\text{Cl}$ , $\text{S}$ ) budget of the Central American subduction zone. International Journal of Earth Sciences, 2014, 103, 2101-2127.	1.8	38
34	Bromine and chlorine emissions from Plinian eruptions along the Central American Volcanic Arc: From source to atmosphere. Earth and Planetary Science Letters, 2015, 429, 234-246.	4.4	37
35	$\text{SO}_2$ degassing from Turrialba Volcano linked to seismic signatures during the period 2008–2012. International Journal of Earth Sciences, 2014, 103, 1983-1998.	1.8	35
36	Gas emissions from five volcanoes in northern Chile and implications for the volatiles budget of the Central Volcanic Zone. Geophysical Research Letters, 2014, 41, 4961-4969.	4.0	31

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37	Synoptic analysis of a decade of daily measurements of SO <sub>2</sub> emission in the troposphere from volcanoes of the global ground-based Network for Observation of Volcanic and Atmospheric Change. <i>Earth System Science Data</i> , 2021, 13, 1167-1188.	9.9	31
38	Mineralization and Alteration of a Modern Seafloor Massive Sulfide Deposit Hosted in Mafic Volcaniclastic Rocks. <i>Economic Geology</i> , 2019, 114, 857-896.	3.8	27
39	Holocene fluid venting at an extinct Cretaceous seamount, Canary archipelago. <i>Geology</i> , 2011, 39, 855-858.	4.4	25
40	The origin of stable halogenated compounds in volcanic gases. <i>Environmental Science and Pollution Research</i> , 2006, 13, 406-413.	5.3	24
41	Synchronous degassing patterns of the neighbouring volcanoes Llaima and Villarrica in south-central Chile: the influence of tidal forces. <i>International Journal of Earth Sciences</i> , 2014, 103, 1999-2012.	1.8	22
42	Fluxes and origin of halogenated organic trace gases from Momotombo volcano (Nicaragua). <i>Geochemistry, Geophysics, Geosystems</i> , 2006, 7, n/a-n/a.	2.5	20
43	Crystallization conditions and petrogenesis of the lava dome from the <sup>14</sup> C-900 years BP eruption of Cerro Machán Volcano, Colombia. <i>Journal of South American Earth Sciences</i> , 2013, 48, 193-208.	1.4	20
44	Origin and evolution of primitive melts from the Debunscha Maar, Cameroon: Consequences for mantle source heterogeneity within the Cameroon Volcanic Line. <i>Lithos</i> , 2017, 288-289, 326-337.	1.4	20
45	Synchrotron-XRF microprobe analysis of silicate reference standards using fundamental-parameter quantification. <i>European Journal of Mineralogy</i> , 2000, 12, 25-31.	1.3	19
46	Magmatic evolution of the Cadamosto Seamount, Cape Verde: beyond the spatial extent of EM1. <i>Contributions To Mineralogy and Petrology</i> , 2012, 163, 949-965.	3.1	19
47	The Medial Offshore Record of Explosive Volcanism Along the Central to Eastern Aegean Volcanic Arc: 2. Tephra Ages and Volumes, Eruption Magnitudes and Marine Sedimentation Rate Variations. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC010011.	2.5	18
48	Volcanic hazards in Nicaragua: Past, present, and future. , 2006, , .		16
49	Silicate melt inclusions from a mildly peralkaline granite in the Oslo paleorift, Norway. <i>Mineralogical Magazine</i> , 1990, 54, 195-205.	1.4	16
50	Sulfur budget and global climate impact of the A.D. 1835 eruption of Cosigüina volcano, Nicaragua. <i>Geophysical Research Letters</i> , 2014, 41, 6667-6675.	4.0	15
51	The 12 900 years BP Laacher See eruption: estimation of volatile yields and simulation of their fate in the plume. <i>Geological Society Special Publication</i> , 2003, 213, 307-328.	1.3	12
52	Meteorological influence on the seasonal and diurnal variability of the dispersion of volcanic emissions in Nicaragua: A numerical model study. <i>Journal of Volcanology and Geothermal Research</i> , 2009, 182, 34-44.	2.1	12
53	Radar Path Delay Effects in Volcanic Gas Plumes: The Case of Lascar Volcano, Northern Chile. <i>Remote Sensing</i> , 2018, 10, 1514.	4.0	12
54	The Medial Offshore Record of Explosive Volcanism Along the Central to Eastern Aegean Volcanic Arc: 1. Tephrostratigraphic Correlations. <i>Geochemistry, Geophysics, Geosystems</i> , 2021, 22, e2021GC010010.	2.5	12

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55	Mantle and Crustal Xenoliths in a Tephriphonolite From La Palma (Canary Islands): Implications for Phonolite Formation at Oceanic Island Volcanoes. <i>Frontiers in Earth Science</i> , 2022, 10, .	1.8	12
56	Elemental distribution in cephalopod statoliths: NanoSIMS provides new insights into nano-scale structure. <i>Reviews in Fish Biology and Fisheries</i> , 2007, 17, 487-491.	4.9	11
57	Halogen release from Plinian eruptions and depletion of stratospheric ozone. , 2015, , 244-259.		11
58	Reduced magmatic fluids in basalt from the island of Disko, central West Greenland. <i>Chemical Geology</i> , 2002, 183, 365-371.	3.3	10
59	Fumarolic gases at Mombacho volcano (Nicaragua): presence of magmatic gas species and implications for volcanic surveillance. <i>Bulletin of Volcanology</i> , 2007, 69, 785-795.	3.0	10
60	Lower crustal hydrothermal circulation at slow-spreading ridges: evidence from chlorine in Arctic and South Atlantic basalt glasses and melt inclusions. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	10
61	<sup>40</sup> Ar- <sup>39</sup> Ar geochronology of the active phonolitic Cadamosto Seamount, Cape Verde. <i>Lithos</i> , 2019, 344-345, 464-481.	1.4	10
62	Comparison of seismic activity for Llaima and Villarrica volcanoes prior to and after the Maule 2010 earthquake. <i>International Journal of Earth Sciences</i> , 2014, 103, 2015-2028.	1.8	9
63	Linking SO <sub>2</sub> emission rates and seismicity by continuous wavelet transform: implications for volcanic surveillance at San Cristóbal volcano, Nicaragua. <i>International Journal of Earth Sciences</i> , 2016, 105, 1453-1465.	1.8	6
64	Unravelling the Crustal Architecture of Cape Verde from the Seamount Xenolith Record. <i>Minerals (Basel, Switzerland)</i> , 2019, 9, 90.	2.0	5
65	5. Fluid Inclusion Thermobarometry as a Tracer for Magmatic Processes. , 2008, , 143-178.		4
66	Bioluminescence in deep-sea isidid gorgonians from the Cape Verde archipelago. <i>Coral Reefs</i> , 2011, 30, 579-579.	2.2	3
67	Origin of High Mg and SO <sub>4</sub> Fluids in Sediments of the Terceira Rift, Azores—Indications for Caminite Dissolution in a Waning Hydrothermal System. <i>Geochemistry, Geophysics, Geosystems</i> , 2019, 20, 6078-6094.	2.5	3
68	The use of graphite for the removal of oxygen from nitrogen purge gas in high temperature microthermometry using the Linkam® TH1500 stage. <i>European Journal of Mineralogy</i> , 1992, 4, 865-872.	1.3	3
69	Evolution of magma chambers generating the phonolitic Cão Grande Formation on Santo Antão, Cape Verde Archipelago. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 327, 436-448.	2.1	2
70	Volatile (Cl, F and S) and major element constraints on subduction-related mantle metasomatism along the alkaline basaltic backarc, Payenia, Argentina. <i>Contributions To Mineralogy and Petrology</i> , 2017, 172, 1.	3.1	2
71	Large-scale fossil dune on Maio, Cape Verdes. <i>International Journal of Earth Sciences</i> , 2018, 107, 2931-2932.	1.8	2
72	Volcaniclastic deposits and sedimentation processes around volcanic ocean islands: the central Azores. <i>Geological Society Special Publication</i> , 2023, 520, 523-546.	1.3	1

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73	Internal igneous growth, doming and rapid erosion of a mature ocean island: the Miocene evolution of Maio (Cabo Verde). <i>International Journal of Earth Sciences</i> , 2022, 111, 1129-1148.	1.8	1
74	Corrigendum to "Floating stones off El Hierro, Canary Islands: xenoliths of pre-island sedimentary origin in the early products of the October 2011 eruption" published in <i>Solid Earth</i> , 3, 97-110, 2012. <i>Solid Earth</i> , 2012, 3, 189-189.	2.8	0