

# Erik Sturkell

## List of Publications by Year in descending order

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58  
papers

2,826  
citations

172457

29  
h-index

175258

52  
g-index

58  
all docs

58  
docs citations

58  
times ranked

2431  
citing authors

#	ARTICLE	IF	CITATIONS
1	Segmented lateral dyke growth in a rifting event at Bárðarbunga volcanic system, Iceland. <i>Nature</i> , 2015, 517, 191-195.	27.8	436
2	Intrusion triggering of the 2010 Eyjafjallajökull explosive eruption. <i>Nature</i> , 2010, 468, 426-430.	27.8	366
3	Changes in groundwater chemistry before two consecutive earthquakes in Iceland. <i>Nature Geoscience</i> , 2014, 7, 752-756.	12.9	158
4	Volcano geodesy and magma dynamics in Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 150, 14-34.	2.1	135
5	Rift-transform kinematics in south Iceland: Deformation from Global Positioning System measurements, 1986 to 1992. <i>Journal of Geophysical Research</i> , 1995, 100, 6235-6248.	3.3	120
6	Volcanic plume height correlated with magma-pressure change at Grámsvötn Volcano, Iceland. <i>Nature Geoscience</i> , 2014, 7, 214-218.	12.9	86
7	Increased capture of magma in the crust promoted by ice-cap retreat in Iceland. <i>Nature Geoscience</i> , 2011, 4, 783-786.	12.9	85
8	Current plate movements across the Mid-Atlantic Ridge determined from 5 years of continuous GPS measurements in Iceland. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	79
9	Recent unrest and magma movements at Eyjafjallajökull and Katla volcanoes, Iceland. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	67
10	Climate effects on volcanism: influence on magmatic systems of loading and unloading from ice mass variations, with examples from Iceland. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2010, 368, 2519-2534.	3.4	63
11	Net gravity decrease at Askja volcano, Iceland: constraints on processes responsible for continuous caldera deflation, 1988–2003. <i>Journal of Volcanology and Geothermal Research</i> , 2005, 139, 227-239.	2.1	58
12	Deflation of the Askja volcanic system: Constraints on the deformation source from combined inversion of satellite radar interferograms and GPS measurements. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 152, 97-108.	2.1	58
13	Deep magma storage at Hekla volcano, Iceland, revealed by InSAR time series analysis. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	56
14	A two-chamber magma chamber model as a source of deformation at Grámsvötn Volcano, Iceland. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 4666-4683.	3.4	56
15	Kinematic models of plate boundary deformation in southwest Iceland derived from GPS observations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	55
16	Continuous deflation of the Askja caldera, Iceland, during the 1983-1998 noneruptive period. <i>Journal of Geophysical Research</i> , 2000, 105, 25671-25684.	3.3	50
17	Glacioisostatic deformation around the Vatnajökull ice cap, Iceland, induced by recent climate warming: GPS observations and finite element modeling. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	50
18	Volcano deformation at active plate boundaries: Deep magma accumulation at Hekla volcano and plate boundary deformation in south Iceland. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	45

#	ARTICLE	IF	CITATIONS
19	Impact-related clastic injections in the marine Ordovician Lockne impact structure, Central Sweden. <i>Sedimentology</i> , 1997, 44, 793-804.	3.1	44
20	Sedimentological analysis of resurge deposits at the Lockne and TvÄren craters: Clues to flow dynamics. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1929-1943.	1.6	43
21	Deformation of GrÄmsvÄtn volcano, Iceland: 1998 eruption and subsequent inflation. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	40
22	The Lockne Crater: Revision and Reassessment of Structure and Impact Stratigraphy. <i>Impact Studies</i> , 2005, , 357-388.	0.5	40
23	New insights into volcanic activity from strain and other deformation data for the Hekla 2000 eruption. <i>Journal of Volcanology and Geothermal Research</i> , 2013, 256, 78-86.	2.1	38
24	Deformation in the Northern Volcanic Zone of Iceland 2008Ä“2014: An interplay of tectonic, magmatic, and glacial isostatic deformation. <i>Journal of Geophysical Research: Solid Earth</i> , 2017, 122, 3158-3178.	3.4	37
25	1983Ä“2003 decaying rate of deflation at Askja caldera: Pressure decrease in an extensive magma plumbing system at a spreading plate boundary. <i>Bulletin of Volcanology</i> , 2006, 68, 727-735.	3.0	32
26	Multiple volcano deformation sources in a post-rifting period: 1989Ä“2005 behaviour of Krafla, Iceland constrained by levelling, tilt and GPS observations. <i>Journal of Volcanology and Geothermal Research</i> , 2008, 177, 405-417.	2.1	32
27	Geodetic data shed light on ongoing caldera subsidence at Askja, Iceland. <i>Bulletin of Volcanology</i> , 2013, 75, 1.	3.0	31
28	Seismic and geodetic insights into magma accumulation at Katla subglacial volcano, Iceland: 1999 to 2005. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	30
29	A new interpretation of the sedimentary cover in the western Siljan Ring area, central Sweden, based on seismic data. <i>Tectonophysics</i> , 2012, 580, 88-99.	2.2	30
30	New OrdovicianÄ“Silurian drill cores from the Siljan impact structure in central Sweden: an integral part of the Swedish Deep Drilling Program. <i>Gff</i> , 2012, 134, 87-98.	1.2	27
31	2 Katla and EyjafjallajÄrkull Volcanoes. <i>Developments in Quaternary Sciences</i> , 2010, 13, 5-21.	0.1	26
32	Chemical controls on ikaite formation. <i>Mineralogical Magazine</i> , 2018, 82, 1119-1129.	1.4	26
33	Strain accumulation 1986-1992 across the Reykjanes Peninsula Plate Boundary, Iceland, determined from GPS measurements. <i>Geophysical Research Letters</i> , 1994, 21, 125-128.	4.0	25
34	Hydrochemical monitoring, petrological observation, and geochemical modeling of fault healing after an earthquake. <i>Journal of Geophysical Research: Solid Earth</i> , 2014, 119, 5727-5740.	3.4	25
35	Coupling between mineral reactions, chemical changes in groundwater, and earthquakes in Iceland. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 2315-2337.	3.4	25
36	Distant ejecta from the Lockne marineÄ“target impact crater, Sweden. <i>Meteoritics and Planetary Science</i> , 2000, 35, 929-936.	1.6	23

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37	Integration of micro-gravity and geodetic data to constrain shallow system mass changes at Krafla Volcano, N Iceland. <i>Bulletin of Volcanology</i> , 2006, 68, 420-431.	3.0	22
38	The target peneplain of the Lockne impact. <i>Meteoritics and Planetary Science</i> , 2004, 39, 1721-1731.	1.6	21
39	Mutually constrained geophysical data for the evaluation of a proposed impact structure: Lake Hummeln, Sweden. <i>Tectonophysics</i> , 1999, 311, 155-177.	2.2	20
40	Early modification stage (preresurge) sediment mobilization in the Lockne concentric, marine-target crater, Sweden. <i>Meteoritics and Planetary Science</i> , 2013, 48, 321-338.	1.6	20
41	Magma Movements in Volcanic Plumbing Systems and their Associated Ground Deformation and Seismic Patterns. , 2018, , 285-322.		20
42	Concentric impact structures in the Palaeozoic of Sweden – the Lockne and Siljan craters. <i>Gff</i> , 2010, 132, 65-70.	1.2	18
43	First known Terrestrial Impact of a Binary Asteroid from a Main Belt Breakup Event. <i>Scientific Reports</i> , 2015, 4, 6724.	3.3	18
44	Geodetic investigation of plate spreading along a propagating ridge: the Eastern Volcanic Zone, Iceland. <i>Geophysical Journal International</i> , 2011, 187, 1175-1194.	2.4	15
45	Comparison of clast frequency and size in the resurge deposits at the Chesapeake Bay impact structure (Eyreville A and Langley cores): Clues to the resurge process. , 2009, , .		13
46	Water resurge at marine-target impact craters analyzed with a combination of low-velocity impact experiments and numerical simulations. , 2010, , .		12
47	Carbon mineral storage in seawater: Ikaite (CaCO <sub>3</sub> ·6H <sub>2</sub> O) columns in Greenland. <i>Energy Procedia</i> , 2018, 146, 59-67.	1.8	12
48	Continuous subsidence in the Thingvellir rift graben, Iceland: Geodetic observations since 1967 compared to rheological models of plate spreading. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 321-338.	3.4	9
49	Temperature-Dependent Newtonian Rheology in Advection-Convection Geodynamical Model for Plate Spreading in Eastern Volcanic Zone, Iceland. <i>Journal of Geoscience and Environment Protection</i> , 2015, 03, 14-26.	0.5	5
50	Water-blow and resurge breccias at the Lockne marine-target impact structure. , 2007, , 43-54.		4
51	New mass increase beneath Askja volcano, Iceland - a precursor to renewed activity?. <i>Terra Nova</i> , 2010, 22, no-no.	2.1	4
52	Secondary alteration of the Grännedal-Ika igneous complex and the genesis of ikaite, CaCO <sub>3</sub> ·6H <sub>2</sub> O, SW Greenland. <i>Chemical Geology</i> , 2019, 510, 18-30.	3.3	4
53	Formation of uranium-thorium-rich bitumen nodules in the Lockne impact structure, Sweden: A mechanism for carbon concentration at impact sites. <i>Meteoritics and Planetary Science</i> , 2007, 42, 1961-1969.	1.6	3
54	Rheological responses to plate boundary deformation at the Eastern Volcanic Zone in Iceland. <i>Tectonophysics</i> , 2017, 717, 16-26.	2.2	3

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55	Oxygen isotopes and implications for the cavity-grown quartz crystals in the Lockne impact structure, Sweden. <i>Gff</i> , 2011, 133, 101-107.	1.2	2
56	New multibeam mapping of the unique lkaite columns in Ikka Fjord, SW Greenland. <i>Marine Geology</i> , 2022, 444, 106710.	2.1	2
57	Maurits Lindström "A renaissance geoscientist". <i>Gff</i> , 2007, 129, 65-70.	1.2	1
58	Geophysical signature of Måylingen, the minor crater of the Lockne "Måylingen doublet impact structure. <i>Meteoritics and Planetary Science</i> , 2018, 53, 1456-1475.	1.6	1