

Páll Einarsson

List of Publications by Year in descending order

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100
papers

5,544
citations

87888

38
h-index

82547

72
g-index

106
all docs

106
docs citations

106
times ranked

2724
citing authors

#	ARTICLE	IF	CITATIONS
1	Segmented lateral dyke growth in a rifting event at B��r��rbunga volcanic system, Iceland. <i>Nature</i> , 2015, 517, 191-195.	27.8	436
2	Earthquakes and present-day tectonism in Iceland. <i>Tectonophysics</i> , 1991, 189, 261-279.	2.2	411
3	Intrusion triggering of the 2010 Eyjafjallaj��kull explosive eruption. <i>Nature</i> , 2010, 468, 426-430.	27.8	366
4	Current rifting episode in north Iceland. <i>Nature</i> , 1977, 266, 318-323.	27.8	245
5	Geophysical constraints on the dynamics of spreading centres from rifting episodes on land. <i>Nature Geoscience</i> , 2012, 5, 242-250.	12.9	231
6	Gradual caldera collapse at B��rdarbunga volcano, Iceland, regulated by lateral magma outflow. <i>Science</i> , 2016, 353, aaf8988.	12.6	230
7	Tectonic stress and magma chamber size as controls on dike propagation: Constraints from the 1975-1984 Krafla rifting episode. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	200
8	Seismic activity associated with the September 1977 deflation of the Krafla central volcano in northeastern Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 1979, 6, 197-212.	2.1	191
9	F��roe-Iceland Ridge Experiment 2. Crustal structure of the Krafla central volcano. <i>Journal of Geophysical Research</i> , 1997, 102, 7867-7886.	3.3	145
10	Volcano geodesy and magma dynamics in Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 150, 14-34.	2.1	135
11	The 1991 eruption of Hekla, Iceland. <i>Bulletin of Volcanology</i> , 1992, 54, 238-246.	3.0	127
12	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
13	The Reykjanes Peninsula, Iceland, earthquake swarm of September 1972 and its tectonic significance. <i>Journal of Geophysical Research</i> , 1977, 82, 865-888.	3.3	111
14	The Krafla fissure swarm, Iceland, and its formation by rifting events. <i>Bulletin of Volcanology</i> , 2012, 74, 2139-2153.	3.0	96
15	Crustal structure of the northern Reykjanes Ridge and Reykjanes Peninsula, southwest Iceland. <i>Journal of Geophysical Research</i> , 2001, 106, 6347-6368.	3.3	91
16	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
17	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
18	The 1994-1995 seismicity and deformation at the Hengill triple junction, Iceland: Triggering of earthquakes by minor magma injection in a zone of horizontal shear stress. <i>Journal of Geophysical Research</i> , 1997, 102, 15151-15161.	3.3	76

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19	Crustal deformation at the oblique spreading Reykjanes Peninsula, SW Iceland: GPS measurements from 1993 to 1998. <i>Journal of Geophysical Research</i> , 2001, 106, 13803-13816.	3.3	76
20	Center of the Iceland hotspot experiences volcanic unrest. <i>Eos</i> , 1997, 78, 369.	0.1	69
21	Recent unrest and magma movements at Eyjafjallajökull and Katla volcanoes, Iceland. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	67
22	Fracture movements and graben subsidence during the 2014 Bárðarbunga dike intrusion in Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2016, 310, 242-252.	2.1	66
23	Magma chamber deflation recorded by the global positioning system: The Hekla 1991 Eruption. <i>Geophysical Research Letters</i> , 1992, 19, 1483-1486.	4.0	63
24	Glacioisostatic crustal movements caused by historical volume change of the Vatnajökull Ice Cap, Iceland. <i>Geophysical Research Letters</i> , 1992, 19, 2123-2126.	4.0	61
25	Controlling factors on earthquake swarms associated with magmatic intrusions; Constraints from Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2007, 162, 73-80.	2.1	61
26	Microearthquakes on the Mid-Atlantic Plate Boundary on the Reykjanes Peninsula in Iceland. <i>Journal of Geophysical Research</i> , 1973, 78, 5084-5099.	3.3	60
27	Lower-crustal earthquakes caused by magma movement beneath Askja volcano on the north Iceland rift. <i>Bulletin of Volcanology</i> , 2010, 72, 55-62.	3.0	59
28	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
29	Seismicity and earthquake focal mechanisms along the Mid-Atlantic plate boundary between Iceland and the Azores. <i>Tectonophysics</i> , 1979, 55, 127-153.	2.2	54
30	Coseismic stress changes and crustal deformation on the Reykjanes Peninsula due to triggered earthquakes on 17 June 2000. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	54
31	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
32	Seismicity Pattern in the South Iceland Seismic Zone. <i>Maurice Ewing Series</i> , 0, , 141-151.	0.1	50
33	Reinterpretation of the RRISP-77 Iceland shear-wave profiles. <i>Geophysical Journal International</i> , 1996, 126, 166-172.	2.4	49
34	Geodynamics of Iceland and the signatures of plate spreading. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 391, 106436.	2.1	47
35	Seismic constraints on magma chambers at Hekla and Torfajökull volcanoes, Iceland. <i>Bulletin of Volcanology</i> , 2004, 66, 276-286.	3.0	43
36	Kilometer-scale Kaiser effect identified in Krafla volcano, Iceland. <i>Geophysical Research Letters</i> , 2015, 42, 7958-7965.	4.0	43

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37	Crustal deformation measured by GPS in the South Iceland Seismic Zone due to two large earthquakes in June 2000. <i>Geophysical Research Letters</i> , 2001, 28, 4031-4033.	4.0	42
38	Styles of surface rupture accompanying the June 17 and 21, 2000 earthquakes in the South Iceland Seismic Zone. <i>Tectonophysics</i> , 2005, 396, 141-159.	2.2	42
39	Deformation of Gr�msv�ttn volcano, Iceland: 1998 eruption and subsequent inflation. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	40
40	The fissure swarm of the Askja volcanic system along the divergent plate boundary of N Iceland. <i>Bulletin of Volcanology</i> , 2009, 71, 961-975.	3.0	39
41	Extension across a divergent plate boundary, the Eastern Volcanic Rift Zone, south Iceland, 1967-1994, observed with GPS and electronic distance measurements. <i>Journal of Geophysical Research</i> , 1997, 102, 11913-11929.	3.3	38
42	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
43	Seismic activity related to the 2000 eruption of the Hekla volcano, Iceland. <i>Bulletin of Volcanology</i> , 2005, 68, 21-36.	3.0	37
44	Radon Changes Associated with the Earthquake Sequence in June 2000 in the South Iceland Seismic Zone. <i>Pure and Applied Geophysics</i> , 2008, 165, 63-74.	1.9	37
45	Deformation in the Northern Volcanic Zone of Iceland 2008�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
46	Crustal deformation associated with the 1996 Gj�lp subglacial eruption, Iceland: InSAR studies in affected areas adjacent to the Vatnaj�kull ice cap. <i>Earth and Planetary Science Letters</i> , 2007, 259, 24-33.	4.4	30
47	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
48	Volume, Effusion Rate, and Lava Transport During the 2021 Fagradalsfjall Eruption: Results From Near Real-time Photogrammetric Monitoring. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	30
49	Source mechanism of the 1987 Vatnafj�ll Earthquake in south Iceland. <i>Journal of Geophysical Research</i> , 1991, 96, 4313-4324.	3.3	29
50	Seismicity around the Hekla and Torfaj�kull volcanoes, Iceland, during a volcanically quiet period, 1991-1995. <i>Bulletin of Volcanology</i> , 1997, 59, 36-48.	3.0	29
51	Unexpected large eruptions from buoyant magma bodies within viscoelastic crust. <i>Nature Communications</i> , 2020, 11, 2403.	12.8	29
52	Seismicity crisis at the Katla volcano, Iceland� signs of a cryptodome?. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 153, 177-186.	2.1	27
53	2 Katla and Eyjafjallaj�kull Volcanoes. <i>Developments in Quaternary Sciences</i> , 2010, 13, 5-21.	0.1	26
54	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

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55	The structure of seismogenic strike-slip faults in the eastern part of the Reykjanes Peninsula Oblique Rift, SW Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 391, 106372.	2.1	25
56	The Iceland GPS Geodetic Field Campaign 1986. <i>Eos</i> , 1987, 68, 1809-1818.	0.1	24
57	Evolution of deformation and stress changes during the caldera collapse and dyking at Bãrdarbunga, 2014â€“2015: Implication for triggering of seismicity at nearby Tungnafellsjãrkrull volcano. <i>Earth and Planetary Science Letters</i> , 2017, 462, 212-223.	4.4	24
58	Short-Term Seismic Precursors to Icelandic Eruptions 1973â€“2014. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	24
59	Plate boundary deformation and continuing deflation of the Askja volcano, North Iceland, determined with GPS, 1987â€“1993. <i>Bulletin of Volcanology</i> , 1995, 57, 136-145.	3.0	23
60	Volcanic Tremor and Low-Frequency Earthquakes in Iceland. <i>IAVCEI Proceedings in Volcanology</i> , 1992, , 212-222.	0.4	23
61	Strike-slip faulting, normal faulting, and lateral dike injections along a single fault: Field example of the Gljãfurã fault near a Tertiary oblique rift-transform zone, Borgarfjãrãur, west Iceland. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 5-1.	3.3	21
62	Seismicity along the eastern margin of the North American Plate. , 0, , 99-116.		21
63	Magma Movements in Volcanic Plumbing Systems and their Associated Ground Deformation and Seismic Patterns. , 2018, , 285-322.		20
64	Seismicity of the Reykjanes Peninsula 1971â€“1976. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 391, 106369.	2.1	19
65	Seismicity of Iceland. , 1974, , 225-239.		18
66	The Kverkfjãll fissure swarm and the eastern boundary of the Northern Volcanic Rift Zone, Iceland. <i>Bulletin of Volcanology</i> , 2012, 74, 143-162.	3.0	17
67	Fissure swarms and fracture systems within the Western Volcanic Zone, Iceland â€“ Effects of spreading rates. <i>Journal of Structural Geology</i> , 2016, 91, 39-53.	2.3	17
68	A harmonised instrumental earthquake catalogue for Iceland and the northern Mid-Atlantic Ridge. <i>Natural Hazards and Earth System Sciences</i> , 2021, 21, 2197-2214.	3.6	16
69	Earthquake activity related to the 1991 eruption of the Hekla volcano, Iceland. <i>Bulletin of Volcanology</i> , 2002, 63, 536-544.	3.0	15
70	Compilation of Earthquake Fault Plane Solutions in the North Atlantic and Arctic Oceans. <i>Geodynamic Series</i> , 2013, , 47-62.	0.1	15
71	The interaction of fissure swarms and monogenetic lava shields in the rift zones of Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2015, 299, 91-102.	2.1	15
72	Long-period seismic events with strikingly regular temporal patterns on Katla volcano's south flank (Iceland). <i>Journal of Volcanology and Geothermal Research</i> , 2016, 324, 28-40.	2.1	14

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73	Fault kinematics at the Hengill Triple Junction, SW-Iceland, derived from surface fracture pattern. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 391, 106439.	2.1	14
74	Seismicity of the Northern Volcanic Zone of Iceland. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	14
75	Intraplate Earthquakes in Iceland. , 1989, , 329-344.		14
76	The 2011 unrest at Katla volcano: Characterization and interpretation of the tremor sources. <i>Journal of Volcanology and Geothermal Research</i> , 2017, 338, 63-78.	2.1	13
77	The Iceland 1986 GPS geodetic survey: tectonic goals and data processing results. <i>Bulletin Geodesique</i> , 1993, 67, 148-172.	0.4	12
78	Volcanic tremor related to the 1991 eruption of the Hekla volcano, Iceland. <i>Bulletin of Volcanology</i> , 2003, 65, 562-577.	3.0	12
79	Low-frequency earthquakes at the Torfajökull volcano, south Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2006, 153, 187-199.	2.1	10
80	Fracturing and earthquake activity within the Prestahnjúkur fissure swarm in the Western Volcanic Rift Zone of Iceland. <i>Journal of Geophysical Research: Solid Earth</i> , 2015, 120, 8743-8757.	3.4	10
81	Evolution of migrating transform faults in anisotropic oceanic crust: examples from Iceland. <i>Canadian Journal of Earth Sciences</i> , 2019, 56, 1297-1308.	1.3	9
82	The Evolution of the Tjörnes Sedimentary Basin in Relation to the Tjörnes Fracture Zone and the Geological Structure of Iceland. <i>Topics in Geobiology</i> , 2021, , 37-55.	0.5	9
83	Reverse-slip structures at oceanic diverging plate boundaries and their kinematic origin: data from Tertiary crust of west and south Iceland. <i>Journal of Structural Geology</i> , 2004, 26, 1945-1960.	2.3	8
84	Rifting Kinematics Produced by Magmatic and Tectonic Stresses in the North Volcanic Zone of Iceland. <i>Frontiers in Earth Science</i> , 2020, 8, .	1.8	8
85	Tectonic position, structure, and Holocene activity of the Hofsjökull volcanic system, central Iceland. <i>Journal of Volcanology and Geothermal Research</i> , 2021, 417, 107277.	2.1	6
86	GPS epoch measurements spanning the mid-Atlantic plate boundary in Northern Iceland 1987–1990. <i>Geophysical Monograph Series</i> , 1994, , 109-123.	0.1	5
87	Effect of tectonics and earthquakes on geothermal activity near plate boundaries: A case study from South Iceland. <i>Geothermics</i> , 2010, 39, 207-219.	3.4	4
88	New mass increase beneath Askja volcano, Iceland - a precursor to renewed activity?. <i>Terra Nova</i> , 2010, 22, no-no.	2.1	4
89	A half-century of geologic and geothermic investigations in Iceland: The legacy of Kristján Sæmundsson. <i>Journal of Volcanology and Geothermal Research</i> , 2020, 391, 106434.	2.1	4
90	Earthquake Swarms. , 2021, , 1-16.		4

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91	Seismic activity associated with the 1963–1967 Surtsey eruption off the coast of South Iceland. <i>Bulletin of Volcanology</i> , 2021, 83, 1.	3.0	3
92	Radon Changes Associated with the Earthquake Sequence in June 2000 in the South Iceland Seismic Zone. , 2008, , 63-74.		3
93	Fracture Kinematics and Holocene Stress Field at the Krafla Rift, Northern Iceland. <i>Geosciences (Switzerland)</i> , 2021, 11, 101.	2.2	2
94	The analog seismogram archives of Iceland: Scanning and preservation for future research. <i>Jokull</i> , 2020, 70, 57-71.	0.1	2
95	The 2011 unrest at Katla volcano: seismicity and geological context. <i>Jokull</i> , 2020, 69, 53-70.	0.1	1
96	Variation in b-value of caldera earthquakes during recent activity of the Bárðarbunga Volcano in Iceland. <i>Jokull</i> , 2020, 69, 71-82.	0.1	1
97	Earthquake Swarms. , 2015, , 871-885.		1
98	Mechanisms of Earthquakes in Iceland. , 2015, , 1460-1473.		1
99	Historical accounts of pre-eruption seismicity of Katla, Hekla, Álfajökull and other volcanoes in Iceland. <i>Jokull</i> , 2020, 69, 35-52.	0.1	0
100	Eysteinn Tryggvason 1924–2021. <i>Minning. Jokull</i> , 2021, 71, 139-147.	0.1	0