

Kurt L Feigl

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

65 papers	6,045 citations	30 h-index	67 g-index
67 ext. papers	6,898 ext. citations	7.4 avg, IF	5.4 L-index

#	Paper	IF	Citations
65	High-Resolution Shallow Structure at Brady Hot Springs Using Ambient Noise Tomography (ANT) on a Trenched Distributed Acoustic Sensing (DAS) Array. <i>Geophysical Monograph Series</i> , 2021 , 101-110	1.1	2
64	Time-Series Analysis of Volume Change at Brady Hot Springs, Nevada, USA, Using Geodetic Data From 2003–2018. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2019JB017816	3.6	2
63	Geodetic Measurements and Numerical Models of Deformation at Coso Geothermal Field, California, USA, 2004–2016. <i>Remote Sensing</i> , 2020 , 12, 225	5	5
62	Optimizing geothermal production in fractured rock reservoirs under uncertainty. <i>Geothermics</i> , 2020 , 88, 101906	4.3	5
61	Spatio-Temporal Analysis of Deformation at San Emidio Geothermal Field, Nevada, USA Between 1992 and 2010. <i>Remote Sensing</i> , 2019 , 11, 1935	5	0
60	Ground motion response to an ML 4.3 earthquake using co-located distributed acoustic sensing and seismometer arrays. <i>Geophysical Journal International</i> , 2018 , 213, 2020-2036	2.6	59
59	Geodetic measurements and numerical models of transient deformation at Raft River geothermal field, Idaho, USA. <i>Geothermics</i> , 2018 , 74, 106-111	4.3	4
58	Geothermal production and reduced seismicity: Correlation and proposed mechanism. <i>Earth and Planetary Science Letters</i> , 2018 , 482, 470-477	5.3	15
57	Characterizing volumetric strain at Brady Hot Springs, Nevada, USA using geodetic data, numerical models and prior information. <i>Geophysical Journal International</i> , 2018 , 215, 1501-1513	2.6	6
56	Inferring Geothermal Reservoir Processes at the Raft River Geothermal Field, Idaho, USA, Through Modeling InSAR-Measured Surface Deformation. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 3645-3666	3.6	10
55	Geomorphic expression of rapid Holocene silicic magma reservoir growth beneath Laguna del Maule, Chile. <i>Science Advances</i> , 2018 , 4, eaat1513	14.3	28
54	Geothermal reservoir characterization using distributed temperature sensing at Brady Geothermal Field, Nevada. <i>The Leading Edge</i> , 2017 , 36, 1024a1-1024a7	1	13
53	Graph theory for analyzing pair-wise data: application to geophysical model parameters estimated from interferometric synthetic aperture radar data at Okmok volcano, Alaska. <i>Journal of Geodesy</i> , 2017 , 91, 9-24	4.5	12
52	Magma injection into a long-lived reservoir to explain geodetically measured uplift: Application to the 2007-2014 unrest episode at Laguna del Maule volcanic field, Chile. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 6092-6108	3.6	61
51	Volcano deformation source parameters estimated from InSAR: Sensitivities to uncertainties in seismic tomography. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 3002-3016	3.6	23
50	Evolution of unrest at Laguna del Maule volcanic field (Chile) from InSAR and GPS measurements, 2003 to 2014. <i>Geophysical Research Letters</i> , 2015 , 42, 6590-6598	4.9	52
49	Rapid uplift in Laguna del Maule volcanic field of the Andean Southern Volcanic zone (Chile) 2007–2012. <i>Geophysical Journal International</i> , 2014 , 196, 885-901	2.6	58

48	InSAR observations and models of crustal deformation due to a glacial surge in Iceland. <i>Geophysical Journal International</i> , 2014 , 198, 1329-1341	2.6	23
47	Geodetic measurements and numerical models of rifting in Northern Iceland for 1993-2008. <i>Geophysical Journal International</i> , 2014 , 196, 1267-1280	2.6	15
46	Dynamics of a large, restless, rhyolitic magma system at Laguna del Maule, southern Andes, Chile. <i>GSA Today</i> , 2014 , 4-10	2.8	52
45	Nonlinear estimation of geometric parameters in FEMs of volcano deformation: Integrating tomography models and geodetic data for Okmok volcano, Alaska. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		37
44	A new strategy for estimating geophysical parameters from InSAR data: Application to the Krafla central volcano in Iceland. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	10
43	Aftershock Distribution as a Constraint on the Geodetic Model of Coseismic Slip for the 2004 Parkfield Earthquake. <i>Pure and Applied Geophysics</i> , 2011 , 168, 1553-1565	2.2	18
42	Intrusion triggering of the 2010 Eyjafjallajökull explosive eruption. <i>Nature</i> , 2010 , 468, 426-30	50.4	306
41	A method for modelling radar interferograms without phase unwrapping: application to the M 5 Fawnskin, California earthquake of 1992 December 4. <i>Geophysical Journal International</i> , 2009 , 176, 491-504	3.6	41
40	Ground deformation in an area later damaged by an earthquake: monitoring the Avclar district of Istanbul, Turkey, by satellite radar interferometry 1992-1999. <i>Geophysical Journal International</i> , 2009 , 178, 976-988	2.6	12
39	The Al Hoceima (Morocco) earthquake of 24 February 2004, analysis and interpretation of data from ENVISAT ASAR and SPOT5 validated by ground-based observations. <i>Remote Sensing of Environment</i> , 2009 , 113, 306-316	13.2	29
38	Three-dimensional mechanical models for the June 2000 earthquake sequence in the south Iceland seismic zone. <i>Tectonophysics</i> , 2008 , 457, 12-29	3.1	12
37	Mouvements actuels des blocs tectoniques dans l'Arc Bélico-Rifain à partir des mesures GPS entre 1999 et 2005. <i>Comptes Rendus - Geoscience</i> , 2008 , 340, 400-413	1.4	35
36	Twenty-five years of geodetic measurements along the Tadjoura-Asal rift system, Djibouti, East Africa. <i>Journal of Geophysical Research</i> , 2007 , 112,		34
35	Crustal deformation associated with the 1996 Gjálpi subglacial eruption, Iceland: InSAR studies in affected areas adjacent to the Vatnajökull ice cap. <i>Earth and Planetary Science Letters</i> , 2007 , 259, 24-33	5.3	26
34	Active tectonics of the western Mediterranean: Geodetic evidence for rollback of a delaminated subcontinental lithospheric slab beneath the Rif Mountains, Morocco. <i>Geology</i> , 2006 , 34, 529	5	104
33	Kinematic models of plate boundary deformation in southwest Iceland derived from GPS observations. <i>Journal of Geophysical Research</i> , 2006 , 111,		48
32	The level of the Grötsvöð subglacial lake, Vatnajökull, Iceland, monitored with SPOT5 images. <i>Earth and Planetary Science Letters</i> , 2006 , 243, 293-302	5.3	10
31	Geodetic observations of post-seismic transients in the context of the earthquake deformation cycle. <i>Comptes Rendus - Geoscience</i> , 2006 , 338, 1012-1028	1.4	27

30	Deformation studies at Furnas and Sete Cidades Volcanoes (S� Miguel Island, Azores). Velocities and further investigations. <i>Geophysical Journal International</i> , 2006 , 166, 952-956	2.6	16
29	InSAR time series analysis of the 9 July 1998 Azores earthquake. <i>International Journal of Remote Sensing</i> , 2005 , 26, 2715-2729	3.1	10
28	Postseismic deformation following the June 2000 earthquake sequence in the south Iceland seismic zone. <i>Journal of Geophysical Research</i> , 2005 , 110,		29
27	Surface motion of mountain glaciers derived from satellite optical imagery. <i>Remote Sensing of Environment</i> , 2005 , 95, 14-28	13.2	157
26	Crustal deformation and fault slip during the seismic cycle in the North Chile subduction zone, from GPS and InSAR observations. <i>Geophysical Journal International</i> , 2004 , 158, 695-711	2.6	122
25	Applying differential InSAR to orbital dynamics: a new approach for estimating ERS trajectories. <i>Journal of Geodesy</i> , 2003 , 77, 493-502	4.5	27
24	Triggered fault slip on June 17, 2000 on the Reykjanes Peninsula, SW-Iceland captured by radar interferometry. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	35
23	Fault slip distribution of two June 2000 M W 6.5 earthquakes in South Iceland estimated from joint inversion of InSAR and GPS measurements. <i>Earth and Planetary Science Letters</i> , 2003 , 213, 487-502	5.3	99
22	Surface effects of faulting and deformation resulting from magma accumulation at the Hengill triple junction, SW Iceland, 1994�1998. <i>Journal of Volcanology and Geothermal Research</i> , 2002 , 115, 233-255	23.8	25
21	37 Estimating earthquake source parameters from geodetic measurements. <i>International Geophysics</i> , 2002 , 607-XIV		14
20	Estimating Slip Distribution for the Izmit Mainshock from Coseismic GPS, ERS-1, RADARSAT, and SPOT Measurements. <i>Bulletin of the Seismological Society of America</i> , 2002 , 92, 138-160	2.3	66
19	Coseismic interferograms of two MS=6.6 earthquakes in the South Iceland Seismic Zone, June 2000. <i>Geophysical Research Letters</i> , 2001 , 28, 3341-3344	4.9	26
18	Crustal deformation near Hengill volcano, Iceland 1993�1998: Coupling between magmatic activity and faulting inferred from elastic modeling of satellite radar interferograms. <i>Journal of Geophysical Research</i> , 2000 , 105, 25655-25670		81
17	Coseismic and Postseismic Fault Slip for the 17 August 1999, M = 7.5, Izmit, Turkey Earthquake. <i>Science</i> , 2000 , 289, 1519-1524	33.3	209
16	Geodetic measurement of horizontal strain across the Red River fault near Thac Ba, Vietnam, 1963�1994. <i>Journal of Geodesy</i> , 1999 , 73, 298-310	4.5	21
15	RNGCHN: a program to calculate displacement components from dislocations in an elastic half-space with applications for modeling geodetic measurements of crustal deformation. <i>Computers and Geosciences</i> , 1999 , 25, 695-704	4.5	62
14	Geodetic measurement of tectonic deformation in the southern Alps and Provence, France, 1947�1994. <i>Earth and Planetary Science Letters</i> , 1998 , 159, 35-46	5.3	28
13	Radar interferometry and its application to changes in the Earth's surface. <i>Reviews of Geophysics</i> , 1998 , 36, 441-500	23.1	1525

12	Coseismic deformation field of the M=6.7 Northridge, California Earthquake of January 17, 1994 recorded by two radar satellites using interferometry. <i>Geophysical Research Letters</i> , 1996 , 23, 969-972	4.9	39
11	Estimation of an earthquake focal mechanism from a satellite radar interferogram: Application to the December 4, 1992 Landers aftershock. <i>Geophysical Research Letters</i> , 1995 , 22, 1037-1040	4.9	54
10	Discrimination of geophysical phenomena in satellite radar interferograms. <i>Geophysical Research Letters</i> , 1995 , 22, 1537-1540	4.9	168
9	Satellite radar interferometric map of the coseismic deformation field of the M = 6.1 Eureka Valley, California Earthquake of May 17, 1993. <i>Geophysical Research Letters</i> , 1995 , 22, 1541-1544	4.9	47
8	Radar interferometric mapping of deformation in the year after the Landers earthquake. <i>Nature</i> , 1994 , 369, 227-230	50.4	219
7	Analysis of coseismic surface displacement gradients using radar interferometry; New insights into the Landers earthquake. <i>Journal of Geophysical Research</i> , 1994 , 99, 21971-21981		36
6	First epoch geodetic GPS measurements across the Afar Plate Boundary Zone. <i>Geophysical Research Letters</i> , 1993 , 20, 1899-1902	4.9	15
5	Space geodetic measurement of crustal deformation in central and southern California, 1984-1992. <i>Journal of Geophysical Research</i> , 1993 , 98, 21677-21712		216
4	The displacement field of the Landers earthquake mapped by radar interferometry. <i>Nature</i> , 1993 , 364, 138-142	50.4	1398
3	A scheme for reducing the effect of selective availability on precise geodetic measurements from the Global Positioning System. <i>Geophysical Research Letters</i> , 1991 , 18, 1289-1292	4.9	16
2	Geodetic measurement of tectonic deformation in the Santa Maria Fold and Thrust Belt, California. <i>Journal of Geophysical Research</i> , 1990 , 95, 2679		79
1	Porotomo Final Technical Report: Poroelastic Tomography by Adjoint Inverse Modeling of Data from Seismology, Geodesy, and Hydrology		12