Kurt L Feigl

List of Publications by Citations

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

#	Paper	IF	Citations
65	Radar interferometry and its application to changes in the Earth's surface. *Reviews of Geophysics*, **1998**, 36, 441-500	23.1	1525
64	The displacement field of the Landers earthquake mapped by radar interferometry. *Nature*, **1993**, 364, 138-142	50.4	1398
63	Intrusion triggering of the 2010 Eyjafjallajökull explosive eruption. *Nature*, **2010**, 468, 426-30	50.4	306
62	Radar interferometric mapping of deformation in the year after the Landers earthquake. *Nature*, **1994**, 369, 227-230	50.4	219
61	Space geodetic measurement of crustal deformation in central and southern California, 1984–1992. *Journal of Geophysical Research*, **1993**, 98, 21677-21712		216
60	Coseismic and Postseismic Fault Slip for the 17 August 1999, M = 7.5, Izmit, Turkey Earthquake. *Science*, **2000**, 289, 1519-1524	33.3	209
59	Discrimination of geophysical phenomena in satellite radar interferograms. *Geophysical Research Letters*, **1995**, 22, 1537-1540	4.9	168
58	Surface motion of mountain glaciers derived from satellite optical imagery. *Remote Sensing of Environment*, **2005**, 95, 14-28	13.2	157
57	Crustal deformation and fault slip during the seismic cycle in the North Chile subduction zone, from GPS and InSAR observations. *Geophysical Journal International*, **2004**, 158, 695-711	2.6	122
56	Active tectonics of the western Mediterranean: Geodetic evidence for rollback of a delaminated subcontinental lithospheric slab beneath the Rif Mountains, Morocco. *Geology*, **2006**, 34, 529	5	104
55	Fault slip distribution of two June 2000 M W 6.5 earthquakes in South Iceland estimated from joint inversion of InSAR and GPS measurements. *Earth and Planetary Science Letters*, **2003**, 213, 487-502	5.3	99
54	Crustal deformation near Hengill volcano, Iceland 1993–1998: Coupling between magmatic activity and faulting inferred from elastic modeling of satellite radar interferograms. *Journal of Geophysical Research*, **2000**, 105, 25655-25670		81
53	Geodetic measurement of tectonic deformation in the Santa Maria Fold and Thrust Belt, California. *Journal of Geophysical Research*, **1990**, 95, 2679		79
52	Estimating Slip Distribution for the Izmit Mainshock from Coseismic GPS, ERS-1, RADARSAT, and SPOT Measurements. *Bulletin of the Seismological Society of America*, **2002**, 92, 138-160	2.3	66
51	RNGCHN: a program to calculate displacement components from dislocations in an elastic half-space with applications for modeling geodetic measurements of crustal deformation. *Computers and Geosciences*, **1999**, 25, 695-704	4.5	62
50	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. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 6092-6108	3.6	61
49	Ground motion response to an ML 4.3 earthquake using co-located distributed acoustic sensing and seismometer arrays. *Geophysical Journal International*, **2018**, 213, 2020-2036	2.6	59

48	Rapid uplift in Laguna del Maule volcanic field of the Andean Southern Volcanic zone (Chile) 2007–2012. *Geophysical Journal International*, **2014**, 196, 885-901	2.6	58
47	Estimation of an earthquake focal mechanism from a satellite radar interferogram: Application to the December 4, 1992 Landers aftershock. *Geophysical Research Letters*, **1995**, 22, 1037-1040	4.9	54
46	Evolution of unrest at Laguna del Maule volcanic field (Chile) from InSAR and GPS measurements, 2003 to 2014. *Geophysical Research Letters*, **2015**, 42, 6590-6598	4.9	52
45	Dynamics of a large, restless, rhyolitic magma system at Laguna del Maule, southern Andes, Chile. *GSA Today*, **2014**, 4-10	2.8	52
44	Kinematic models of plate boundary deformation in southwest Iceland derived from GPS observations. *Journal of Geophysical Research*, **2006**, 111,		48
43	Satellite radar interferometric map of the coseismic deformation field of the M = 6.1 Eureka Valley, California Earthquake of May 17, 1993. *Geophysical Research Letters*, **1995**, 22, 1541-1544	4.9	47
42	A method for modelling radar interferograms without phase unwrapping: application to the M 5 Fawnskin, California earthquake of 1992 December 4. *Geophysical Journal International*, **2009**, 176, 491-504	2.6	41
41	Coseismic deformation field of the M=6.7 Northridge, California Earthquake of January 17, 1994 recorded by two radar satellites using interferometry. *Geophysical Research Letters*, **1996**, 23, 969-972	4.9	39
40	Nonlinear estimation of geometric parameters in FEMs of volcano deformation: Integrating tomography models and geodetic data for Okmok volcano, Alaska. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		37
39	Analysis of coseismic surface displacement gradients using radar interferometry: New insights into the Landers earthquake. *Journal of Geophysical Research*, **1994**, 99, 21971-21981		36
38	Mouvements actuels des blocs tectoniques dans l'arc Bético-Rifain à partir des mesures GPS entre 1999 et 2005. *Comptes Rendus - Geoscience*, **2008**, 340, 400-413	1.4	35
37	Triggered fault slip on June 17, 2000 on the Reykjanes Peninsula, SW-Iceland captured by radar interferometry. *Geophysical Research Letters*, **2003**, 30,	4.9	35
36	Twenty-five years of geodetic measurements along the Tadjoura-Asal rift system, Djibouti, East Africa. *Journal of Geophysical Research*, **2007**, 112,		34
35	The Al Hoceima (Morocco) earthquake of 24 February 2004, analysis and interpretation of data from ENVISAT ASAR and SPOT5 validated by ground-based observations. *Remote Sensing of Environment*, **2009**, 113, 306-316	13.2	29
34	Postseismic deformation following the June 2000 earthquake sequence in the south Iceland seismic zone. *Journal of Geophysical Research*, **2005**, 110,		29
33	Geodetic measurement of tectonic deformation in the southern Alps and Provence, France, 1947–1994. *Earth and Planetary Science Letters*, **1998**, 159, 35-46	5.3	28
32	Geomorphic expression of rapid Holocene silicic magma reservoir growth beneath Laguna del Maule, Chile. *Science Advances*, **2018**, 4, eaat1513	14.3	28
31	Geodetic observations of post-seismic transients in the context of the earthquake deformation cycle. *Comptes Rendus - Geoscience*, **2006**, 338, 1012-1028	1.4	27

30	Applying differential InSAR to orbital dynamics: a new approach for estimating ERS trajectories. *Journal of Geodesy*, **2003**, 77, 493-502	4.5	27
29	Crustal deformation associated with the 1996 Gjlp subglacial eruption, Iceland: InSAR studies in affected areas adjacent to the Vatnajkull ice cap. *Earth and Planetary Science Letters*, **2007**, 259, 24-33	5.3	26
28	Coseismic interferograms of two MS=6.6 earthquakes in the South Iceland Seismic Zone, June 2000. *Geophysical Research Letters*, **2001**, 28, 3341-3344	4.9	26
27	Surface effects of faulting and deformation resulting from magma accumulation at the Hengill triple junction, SW Iceland, 19941998. *Journal of Volcanology and Geothermal Research*, **2002**, 115, 233-255	2.8	25
26	Volcano deformation source parameters estimated from InSAR: Sensitivities to uncertainties in seismic tomography. *Journal of Geophysical Research: Solid Earth*, **2016**, 121, 3002-3016	3.6	23
25	InSAR observations and models of crustal deformation due to a glacial surge in Iceland. *Geophysical Journal International*, **2014**, 198, 1329-1341	2.6	23
24	Geodetic measurement of horizontal strain across the Red River fault near Thac Ba, Vietnam, 19631994. *Journal of Geodesy*, **1999**, 73, 298-310	4.5	21
23	Aftershock Distribution as a Constraint on the Geodetic Model of Coseismic Slip for the 2004 Parkfield Earthquake. *Pure and Applied Geophysics*, **2011**, 168, 1553-1565	2.2	18
22	Deformation studies at Furnas and Sete Cidades Volcanoes (S Miguel Island, Azores). Velocities and further investigations. *Geophysical Journal International*, **2006**, 166, 952-956	2.6	16
21	A scheme for reducing the effect of selective availability on precise geodetic measurements from the Global Positioning System. *Geophysical Research Letters*, **1991**, 18, 1289-1292	4.9	16
20	Geodetic measurements and numerical models of rifting in Northern Iceland for 19932008. *Geophysical Journal International*, **2014**, 196, 1267-1280	2.6	15
19	First epoch geodetic GPS measurements across the Afar Plate Boundary Zone. *Geophysical Research Letters*, **1993**, 20, 1899-1902	4.9	15
18	Geothermal production and reduced seismicity: Correlation and proposed mechanism. *Earth and Planetary Science Letters*, **2018**, 482, 470-477	5.3	15
17	37 Estimating earthquake source parameters from geodetic measurements. *International Geophysics*, **2002**, 607-XIV		14
16	Geothermal reservoir characterization using distributed temperature sensing at Brady Geothermal Field, Nevada. *The Leading Edge*, **2017**, 36, 1024a1-1024a7	1	13
15	Graph theory for analyzing pair-wise data: application to geophysical model parameters estimated from interferometric synthetic aperture radar data at Okmok volcano, Alaska. *Journal of Geodesy*, **2017**, 91, 9-24	4.5	12
14	Ground deformation in an area later damaged by an earthquake: monitoring the Avcilar district of Istanbul, Turkey, by satellite radar interferometry 1992-1999. *Geophysical Journal International*, **2009**, 178, 976-988	2.6	12
13	Three-dimensional mechanical models for the June 2000 earthquake sequence in the south Iceland seismic zone. *Tectonophysics*, **2008**, 457, 12-29	3.1	12

12	PoroTomo Final Technical Report: Poroelastic Tomography by Adjoint Inverse Modeling of Data from Seismology, Geodesy, and Hydrology		12
11	A new strategy for estimating geophysical parameters from InSAR data: Application to the Krafla central volcano in Iceland. *Geochemistry, Geophysics, Geosystems*, **2012**, 13, n/a-n/a	3.6	10
10	InSAR time series analysis of the 9 July 1998 Azores earthquake. *International Journal of Remote Sensing*, **2005**, 26, 2715-2729	3.1	10
9	The level of the Grímsvötn subglacial lake, Vatnajökull, Iceland, monitored with SPOT5 images. *Earth and Planetary Science Letters*, **2006**, 243, 293-302	5.3	10
8	Inferring Geothermal Reservoir Processes at the Raft River Geothermal Field, Idaho, USA, Through Modeling InSAR-Measured Surface Deformation. *Journal of Geophysical Research: Solid Earth*, **2018**, 123, 3645-3666	3.6	10
7	Characterizing volumetric strain at Brady Hot Springs, Nevada, USA using geodetic data, numerical models and prior information. *Geophysical Journal International*, **2018**, 215, 1501-1513	2.6	6
6	Geodetic Measurements and Numerical Models of Deformation at Coso Geothermal Field, California, USA, 2004–2016. *Remote Sensing*, **2020**, 12, 225	5	5
5	Optimizing geothermal production in fractured rock reservoirs under uncertainty. *Geothermics*, **2020**, 88, 101906	4.3	5
4	Geodetic measurements and numerical models of transient deformation at Raft River geothermal field, Idaho, USA. *Geothermics*, **2018**, 74, 106-111	4.3	4
3	Time-Series Analysis of Volume Change at Brady Hot Springs, Nevada, USA, Using Geodetic Data From 2003–2018. *Journal of Geophysical Research: Solid Earth*, **2020**, 125, e2019JB017816	3.6	2
2	High-Resolution Shallow Structure at Brady Hot Springs Using Ambient Noise Tomography (ANT) on a Trenched Distributed Acoustic Sensing (DAS) Array. *Geophysical Monograph Series*, **2021**, 101-110	1.1	2
1	Spatio-Temporal Analysis of Deformation at San Emidio Geothermal Field, Nevada, USA Between 1992 and 2010. *Remote Sensing*, **2019**, 11, 1935	5	0