

Kurt L Feigl

List of Publications by Year in descending order

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63
papers

7,689
citations

126907

33
h-index

106344

65
g-index

67
all docs

67
docs citations

67
times ranked

5475
citing authors

#	ARTICLE	IF	CITATIONS
1	Optimizing geothermal production in fractured rock reservoirs under uncertainty. <i>Geothermics</i> , 2020, 88, 101906.	3.4	18
2	Time-Series Analysis of Volume Change at Brady Hot Springs, Nevada, USA, Using Geodetic Data From 2003 to 2018. <i>Journal of Geophysical Research: Solid Earth</i> , 2020, 125, e2019JB017816.	3.4	4
3	Geodetic Measurements and Numerical Models of Deformation at Coso Geothermal Field, California, USA, 2004 to 2016. <i>Remote Sensing</i> , 2020, 12, 225.	4.0	6
4	Spatio-Temporal Analysis of Deformation at San Emidio Geothermal Field, Nevada, USA Between 1992 and 2010. <i>Remote Sensing</i> , 2019, 11, 1935.	4.0	1
5	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.	2.4	122
6	Geothermal production and reduced seismicity: Correlation and proposed mechanism. <i>Earth and Planetary Science Letters</i> , 2018, 482, 470-477.	4.4	22
7	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.	2.4	7
8	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.	3.4	13
9	Geomorphic expression of rapid Holocene silicic magma reservoir growth beneath Laguna del Maule, Chile. <i>Science Advances</i> , 2018, 4, eaat1513.	10.3	38
10	Geodetic measurements and numerical models of transient deformation at Raft River geothermal field, Idaho, USA. <i>Geothermics</i> , 2018, 74, 106-111.	3.4	5
11	Geothermal reservoir characterization using distributed temperature sensing at Brady Geothermal Field, Nevada. <i>The Leading Edge</i> , 2017, 36, 1024a1-1024a7.	0.7	20
12	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.	3.6	15
13	Magma injection into a long-lived reservoir to explain geodetically measured uplift: Application to the 2007 to 2014 unrest episode at Laguna del Maule volcanic field, Chile. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 6092-6108.	3.4	73
14	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.	3.4	27
15	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.	4.0	57
16	Rapid uplift in Laguna del Maule volcanic field of the Andean Southern Volcanic zone (Chile) 2007 to 2012. <i>Geophysical Journal International</i> , 2014, 196, 885-901.	2.4	65
17	InSAR observations and models of crustal deformation due to a glacial surge in Iceland. <i>Geophysical Journal International</i> , 2014, 198, 1329-1341.	2.4	28
18	Geodetic measurements and numerical models of rifting in Northern Iceland for 1993 to 2008. <i>Geophysical Journal International</i> , 2014, 196, 1267-1280.	2.4	20

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19	Dynamics of a large, restless, rhyolitic magma system at Laguna del Maule, southern Andes, Chile. <i>GSA Today</i> , 2014, , 4-10.	2.0	63
20	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, .	3.3	41
21	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, .	2.5	11
22	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.	1.9	19
23	Intrusion triggering of the 2010 Eyjafjallajökull explosive eruption. <i>Nature</i> , 2010, 468, 426-430.	27.8	366
24	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.	2.4	46
25	Ground deformation in an area later damaged by an earthquake: monitoring the Avcilar district of Istanbul, Turkey, by satellite radar interferometry 1992-1999. <i>Geophysical Journal International</i> , 2009, 178, 976-988.	2.4	15
26	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.	11.0	35
27	Three-dimensional mechanical models for the June 2000 earthquake sequence in the south Iceland seismic zone. <i>Tectonophysics</i> , 2008, 457, 12-29.	2.2	13
28	Mouvements actuels des blocs tectoniques dans l'arc Bétique-Rifain à partir des mesures GPS entre 1999 et 2005. <i>Comptes Rendus - Geoscience</i> , 2008, 340, 400-413.	1.2	43
29	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.	4.4	30
30	Twenty-five years of geodetic measurements along the Tadjoura-Asal rift system, Djibouti, East Africa. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	43
31	Kinematic models of plate boundary deformation in southwest Iceland derived from GPS observations. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	55
32	The level of the Grömsvatn subglacial lake, Vatnajökull, Iceland, monitored with SPOT5 images. <i>Earth and Planetary Science Letters</i> , 2006, 243, 293-302.	4.4	12
33	Geodetic observations of post-seismic transients in the context of the earthquake deformation cycle. <i>Comptes Rendus - Geoscience</i> , 2006, 338, 1012-1028.	1.2	31
34	Deformation studies at Furnas and Sete Cidades Volcanoes (São Miguel Island, Azores). Velocities and further investigations. <i>Geophysical Journal International</i> , 2006, 166, 952-956.	2.4	18
35	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.	4.4	122
36	Surface motion of mountain glaciers derived from satellite optical imagery. <i>Remote Sensing of Environment</i> , 2005, 95, 14-28.	11.0	195

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37	InSAR time series analysis of the 9 July 1998 Azores earthquake. <i>International Journal of Remote Sensing</i> , 2005, 26, 2715-2729.	2.9	10
38	Postseismic deformation following the June 2000 earthquake sequence in the south Iceland seismic zone. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	36
39	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.	2.4	139
40	Applying differential InSAR to orbital dynamics: a new approach for estimating ERS trajectories. <i>Journal of Geodesy</i> , 2003, 77, 493-502.	3.6	29
41	Triggered fault slip on June 17, 2000 on the Reykjanes Peninsula, SW-Iceland captured by radar interferometry. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	44
42	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.	4.4	123
43	37 Estimating earthquake source parameters from geodetic measurements. <i>International Geophysics</i> , 2002, , 607-XIV.	0.6	18
44	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	80
45	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.	2.1	31
46	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.	4.0	31
47	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.	3.3	93
48	Coseismic and Postseismic Fault Slip for the 17 August 1999, M = 7.5, Izmit, Turkey Earthquake. <i>Science</i> , 2000, 289, 1519-1524.	12.6	273
49	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.	3.6	27
50	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.	4.2	84
51	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.	4.4	32
52	Radar interferometry and its application to changes in the Earth's surface. <i>Reviews of Geophysics</i> , 1998, 36, 441-500.	23.0	1,992
53	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.	4.0	47
54	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.	4.0	66

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55	Discrimination of geophysical phenomena in satellite radar interferograms. Geophysical Research Letters, 1995, 22, 1537-1540.	4.0	208
56	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.	4.0	57
57	Radar interferometric mapping of deformation in the year after the Landers earthquake. Nature, 1994, 369, 227-230.	27.8	267
58	Analysis of coseismic surface displacement gradients using radar interferometry; New insights into the Landers earthquake. Journal of Geophysical Research, 1994, 99, 21971-21981.	3.3	54
59	The displacement field of the Landers earthquake mapped by radar interferometry. Nature, 1993, 364, 138-142.	27.8	1,853
60	First epoch geodetic GPS measurements across the Afar Plate Boundary Zone. Geophysical Research Letters, 1993, 20, 1899-1902.	4.0	16
61	Space geodetic measurement of crustal deformation in central and southern California, 1984-1992. Journal of Geophysical Research, 1993, 98, 21677-21712.	3.3	247
62	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.	4.0	16
63	Geodetic measurement of tectonic deformation in the Santa Maria Fold and Thrust Belt, California. Journal of Geophysical Research, 1990, 95, 2679-2699.	3.3	93