

# Kenneth W Hudnut

## List of Publications by Year in descending order

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Version: 2024-02-01

61  
papers

5,497  
citations

101543

36  
h-index

138484

58  
g-index

73  
all docs

73  
docs citations

73  
times ranked

4536  
citing authors

#	ARTICLE	IF	CITATIONS
1	Near-Field Investigations of the Landers Earthquake Sequence, April to July 1992. <i>Science</i> , 1993, 260, 171-176.	12.6	392
2	Detection of aquifer system compaction and land subsidence using interferometric synthetic aperture radar, Antelope Valley, Mojave Desert, California. <i>Water Resources Research</i> , 1998, 34, 2573-2585.	4.2	362
3	Tectonic contraction across Los Angeles after removal of groundwater pumping effects. <i>Nature</i> , 2001, 412, 812-815.	27.8	320
4	Geomorphic and geologic controls of geohazards induced by Nepal's 2015 Gorkha earthquake. <i>Science</i> , 2016, 351, aac8353.	12.6	317
5	Slip pulse and resonance of the Kathmandu basin during the 2015 Gorkha earthquake, Nepal. <i>Science</i> , 2015, 349, 1091-1095.	12.6	287
6	Co-seismic ruptures of the 12 May 2008, Ms 8.0 Wenchuan earthquake, Sichuan: East-west crustal shortening on oblique, parallel thrusts along the eastern edge of Tibet. <i>Earth and Planetary Science Letters</i> , 2009, 286, 355-370.	4.4	286
7	Superficial simplicity of the 2010 El Mayor-Cucapah earthquake of Baja California in Mexico. <i>Nature Geoscience</i> , 2011, 4, 615-618.	12.9	225
8	Postseismic Rebound in Fault Step-Overs Caused by Pore Fluid Flow. <i>Science</i> , 1996, 273, 1202-1204.	12.6	215
9	Near-Field Deformation from the El Mayor-Cucapah Earthquake Revealed by Differential LIDAR. <i>Science</i> , 2012, 335, 702-705.	12.6	206
10	Cross-fault triggering in the November 1987 Superstition Hills Earthquake Sequence, southern California. <i>Geophysical Research Letters</i> , 1989, 16, 199-202.	4.0	205
11	Uplift and subsidence associated with the great Aceh-Andaman earthquake of 2004. <i>Journal of Geophysical Research</i> , 2006, 111, n/a-n/a.	3.3	193
12	Complex rupture during the 12 January 2010 Haiti Earthquake. <i>Nature Geoscience</i> , 2010, 3, 800-805.	12.9	157
13	The 2012 Brawley swarm triggered by injection-induced aseismic slip. <i>Earth and Planetary Science Letters</i> , 2015, 422, 115-125.	4.4	141
14	Assembly of a large earthquake from a complex fault system: Surface rupture kinematics of the 4 April 2010 El Mayor-Cucapah (Mexico) Mw 7.2 earthquake. , 2014, 10, 797-827.		127
15	Detection of crustal deformation from the Landers earthquake sequence using continuous geodetic measurements. <i>Nature</i> , 1993, 361, 337-340.	27.8	108
16	Rapid Damage Mapping for the 2015 Mw 7.8 Gorkha Earthquake Using Synthetic Aperture Radar Data from COSMO-SkyMed and ALOS-2 Satellites. <i>Seismological Research Letters</i> , 2015, 86, 1549-1556.	1.9	108
17	Slip history of the 2003 San Simeon earthquake constrained by combining 1-Hz GPS, strong motion, and teleseismic data. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	102
18	LiDAR and Field Observations of Slip Distribution for the Most Recent Surface Ruptures along the Central San Jacinto Fault. <i>Bulletin of the Seismological Society of America</i> , 2012, 102, 598-619.	2.3	98

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19	Seismic hazard of the Enriquillo–Plantain Garden fault in Haiti inferred from palaeoseismology. <i>Nature Geoscience</i> , 2010, 3, 789-793.	12.9	97
20	Broadband simulations for $M_w > 7.8$ southern San Andreas earthquakes: Ground motion sensitivity to rupture speed. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	95
21	Uncertainties in slip-rate estimates for the Mission Creek strand of the southern San Andreas fault at Biskra Palms Oasis, southern California. <i>Bulletin of the Geological Society of America</i> , 2010, 122, 1360-1377.	3.3	92
22	The 2014 Mw 6.1 South Napa Earthquake: A Unilateral Rupture with Shallow Asperity and Rapid Afterslip. <i>Seismological Research Letters</i> , 2015, 86, 344-354.	1.9	78
23	The Mw 6.0 24 August 2014 South Napa Earthquake. <i>Seismological Research Letters</i> , 2015, 86, 309-326.	1.9	70
24	High-Resolution Topography along Surface Rupture of the 16 October 1999 Hector Mine, California, Earthquake (Mw 7.1) from Airborne Laser Swath Mapping. <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 1570-1576.	2.3	65
25	Preliminary Report on the 22 December 2003, M 6.5 San Simeon, California Earthquake. <i>Seismological Research Letters</i> , 2004, 75, 155-172.	1.9	64
26	The geodetic signature of the M8.0 Oct. 9,1995, Jalisco Subduction Earthquake. <i>Geophysical Research Letters</i> , 1997, 24, 715-718.	4.0	55
27	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.	3.3	54
28	Geologic and structural controls on rupture zone fabric: A field-based study of the 2010 Mw 7.2 El Mayor-Cucapah earthquake surface rupture. , 2015, 11, 899-920.		52
29	Stress loading from viscous flow in the lower crust and triggering of aftershocks following the 1994 Northridge, California, Earthquake. <i>Geophysical Research Letters</i> , 1999, 26, 3209-3212.	4.0	51
30	Buried shallow fault slip from the South Napa earthquake revealed by near-field geodesy. <i>Science Advances</i> , 2017, 3, e1700525.	10.3	51
31	Report on the August 2012 Brawley Earthquake Swarm in Imperial Valley, Southern California. <i>Seismological Research Letters</i> , 2013, 84, 177-189.	1.9	48
32	Compact Multipurpose Mobile Laser Scanning System – Initial Tests and Results. <i>Remote Sensing</i> , 2013, 5, 521-538.	4.0	48
33	The ShakeOut Earthquake Source and Ground Motion Simulations. <i>Earthquake Spectra</i> , 2011, 27, 273-291.	3.1	45
34	Fault Interactions and Large Complex Earthquakes in the Los Angeles Area. <i>Science</i> , 2003, 302, 1946-1949.	12.6	44
35	Dynamic Rupture Modeling of the Transition from Thrust to Strike-Slip Motion in the 2002 Denali Fault Earthquake, Alaska. <i>Bulletin of the Seismological Society of America</i> , 2004, 94, S190-S201.	2.3	41
36	The ShakeOut Scenario: A Hypothetical $M_w > 7.8$ Earthquake on the Southern San Andreas Fault. <i>Earthquake Spectra</i> , 2011, 27, 239-261.	3.1	41

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37	Continuous GPS Observations of Postseismic Deformation Following the 16 October 1999 Hector Mine, California, Earthquake (Mw 7.1). <i>Bulletin of the Seismological Society of America</i> , 2002, 92, 1403-1422.	2.3	40
38	Transition from double to single Wadati-Benioff seismic zone in the Shumagin Islands, Alaska. <i>Geophysical Research Letters</i> , 1987, 14, 143-146.	4.0	39
39	Anomalously steep dips of earthquakes in the 2011 Tohoku-Oki source region and possible explanations. <i>Earth and Planetary Science Letters</i> , 2012, 353-354, 121-133.	4.4	39
40	1957 Gobi-Altay, Mongolia, earthquake as a prototype for southern California's most devastating earthquake. <i>Geology</i> , 1996, 24, 579.	4.4	38
41	The Wister Mud Pot Lineament: Southeastward Extension or Abandoned Strand of the San Andreas Fault?. <i>Bulletin of the Seismological Society of America</i> , 2008, 98, 1720-1729.	2.3	30
42	<sup>230</sup> Th/ <sup>U</sup> dating of a late Pleistocene alluvial fan along the southern San Andreas fault. <i>Bulletin of the Geological Society of America</i> , 2010, 122, 1347-1359.	3.3	30
43	Complementary slip distributions of the largest earthquakes in the 2012 Brawley swarm, Imperial Valley, California. <i>Geophysical Research Letters</i> , 2013, 40, 847-852.	4.0	30
44	Tearing the terroir: Details and implications of surface rupture and deformation from the 24 August 2014 <i>M</i> <sub>6.0</sub> South Napa earthquake, California. <i>Earth and Space Science</i> , 2016, 3, 416-430.	2.6	29
45	Surface ruptures on the transverse Xiaoyudong fault: A significant segment boundary breached during the 2008 Wenchuan earthquake, China. <i>Tectonophysics</i> , 2012, 580, 218-241.	2.2	28
46	Quantitative study of tectonic geomorphology along Haiyuan fault based on airborne LiDAR. <i>Science Bulletin</i> , 2014, 59, 2396-2409.	1.7	25
47	Liquefaction caused by the 2009 Olancho, California (USA), M5.2 earthquake. <i>Engineering Geology</i> , 2010, 116, 184-188.	6.3	23
48	Seismicity and fault interaction, Southern San Jacinto Fault Zone and adjacent faults, southern California: Implications for seismic hazard. <i>Tectonics</i> , 1991, 10, 1187-1203.	2.8	20
49	Fault-Slip Distribution of the 1999 Mw 7.1 Hector Mine Earthquake, California, Estimated from Postearthquake Airborne LiDAR Data. <i>Bulletin of the Seismological Society of America</i> , 2015, 105, 776-790.	2.3	19
50	Kinematic GPS solutions for aircraft trajectories: Identifying and minimizing systematic height errors associated with atmospheric propagation delays. <i>Geophysical Research Letters</i> , 2007, 34, n/a-n/a.	4.0	16
51	Mobile Laser Scanning Applied to the Earth Sciences. <i>Eos</i> , 2013, 94, 313-315.	0.1	16
52	An analysis of the factors that control fault zone architecture and the importance of fault orientation relative to regional stress. <i>Bulletin of the Geological Society of America</i> , 2020, 132, 2084-2104.	3.3	14
53	Recent volcanic history of Irazul volcano, Costa Rica: Alternation and mixing of two magma batches, and pervasive mixing. , 2006, , .		13
54	Development and growth of recently-exposed fumarole fields near Mullet Island, Imperial County, California. <i>Geomorphology</i> , 2013, 195, 27-44.	2.6	10

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55	Earthquake geodesy and hazard monitoring. <i>Reviews of Geophysics</i> , 1995, 33, 249.	23.0	9
56	Toppling Analysis of the Echo Cliffs Precariously Balanced Rock. <i>Bulletin of the Seismological Society of America</i> , 2017, 107, 72-84.	2.3	7
57	Deformation following the 1994 Northridge Earthquake (M=6.7), Southern California. <i>Geophysical Research Letters</i> , 1998, 25, 2725-2728.	4.0	5
58	Geodesy tracks plate motion. <i>Nature</i> , 1992, 355, 681-682.	27.8	2
59	Geologic and Geodetic Aspects of the December 2004 Great Sumatra-Andaman and 2005 Nias-Simeulue Earthquakes. <i>Earthquake Spectra</i> , 2006, 22, 13-42.	3.1	1
60	Low-altitude Aerial Color Digital Photographic Survey of the San Andreas Fault. <i>Seismological Research Letters</i> , 2010, 81, 453-459.	1.9	1
61	ShakeOut, California Style. <i>Anesthesia and Analgesia</i> , 2010, 110, 655-656.	2.2	1