Kenneth W Hudnut

List of Publications by Year
in descending order

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	An analysis of the factors that control fault zone architecture and the importance of fault orientation relative to regional stress. Bulletin of the Geological Society of America, 2020, 132, 2084-2104.	3.3	14
2	Toppling Analysis of the Echo Cliffs Precariously Balanced Rock. Bulletin of the Seismological Society of America, 2017, 107, 72-84.	2.3	7
3	Buried shallow fault slip from the South Napa earthquake revealed by near-field geodesy. Science Advances, 2017, 3, e1700525.	10.3	51
4	Tearing the terroir: Details and implications of surface rupture and deformation from the 24 August 2014 M6.0 South Napa earthquake, California. Earth and Space Science, 2016, 3, 416-430.	2.6	29
5	Geomorphic and geologic controls of geohazards induced by Nepalâ€™s 2015 Gorkha earthquake. Science, 2016, 351, aac8353.	12.6	317
6	The 2014 Mw 6.1 South Napa Earthquake: A Unilateral Rupture with Shallow Asperity and Rapid Afterslip. Seismological Research Letters, 2015, 86, 344-354.	1.9	78
7	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
8	Slip pulse and resonance of the Kathmandu basin during the 2015 Gorkha earthquake, Nepal. Science, 2015, 349, 1091-1095.	12.6	287
9	The 2012 Brawley swarm triggered by injection-induced aseismic slip. Earth and Planetary Science Letters, 2015, 422, 115-125.	4.4	141
10	Faultâ€Slip Distribution of the 1999MwÂ7.1 Hector Mine Earthquake, California, Estimated from Postearthquake Airborne LiDAR Data. Bulletin of the Seismological Society of America, 2015, 105, 776-790.	2.3	19
11	The Mw 6.0 24 August 2014 South Napa Earthquake. Seismological Research Letters, 2015, 86, 309-326.	1.9	70
12	Rapid Damage Mapping for the 2015M_wÂ7.8 Gorkha Earthquake Using Synthetic Aperture Radar Data from COSMOâ€“SkyMed and ALOS-2 Satellites. Seismological Research Letters, 2015, 86, 1549-1556.	1.9	108
13	Assembly of a large earthquake from a complex fault system: Surface rupture kinematics of the 4 April 2010 El Mayorâ€“Cucapah (Mexico) Mw 7.2 earthquake. , 2014, 10, 797-827.		127
14	Quantitative study of tectonic geomorphology along Haiyuan fault based on airborne LiDAR. Science Bulletin, 2014, 59, 2396-2409.	1.7	25
15	Development and growth of recently-exposed fumarole fields near Mullet Island, Imperial County, California. Geomorphology, 2013, 195, 27-44.	2.6	10
16	Report on the August 2012 Brawley Earthquake Swarm in Imperial Valley, Southern California. Seismological Research Letters, 2013, 84, 177-189.	1.9	48
17	Complementary slip distributions of the largest earthquakes in the 2012 Brawley swarm, Imperial Valley, California. Geophysical Research Letters, 2013, 40, 847-852.	4.0	30
18	Mobile Laser Scanning Applied to the Earth Sciences. Eos, 2013, 94, 313-315.	0.1	16

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19	Compact Multipurpose Mobile Laser Scanning System â€" Initial Tests and Results. Remote Sensing, 2013, 5, 521-538.	4.0	48
20	Near-Field Deformation from the El Mayorâ€"Cucapah Earthquake Revealed by Differential LIDAR. Science, 2012, 335, 702-705.	12.6	206
21	LiDAR and Field Observations of Slip Distribution for the Most Recent Surface Ruptures along the Central San Jacinto Fault. Bulletin of the Seismological Society of America, 2012, 102, 598-619.	2.3	98
22	Anomalously steep dips of earthquakes in the 2011 Tohoku-Oki source region and possible explanations. Earth and Planetary Science Letters, 2012, 353-354, 121-133.	4.4	39
23	Surface ruptures on the transverse Xiaoyudong fault: A significant segment boundary breached during the 2008 Wenchuan earthquake, China. Tectonophysics, 2012, 580, 218-241.	2.2	28
24	The ShakeOut Scenario: A Hypothetical M_w7.8 Earthquake on the Southern San Andreas Fault. Earthquake Spectra, 2011, 27, 239-261.	3.1	41
25	The ShakeOut Earthquake Source and Ground Motion Simulations. Earthquake Spectra, 2011, 27, 273-291.	3.1	45
26	Superficial simplicity of the 2010 El Mayorâ€"Cucapah earthquake of Baja California in Mexico. Nature Geoscience, 2011, 4, 615-618.	12.9	225
27	Liquefaction caused by the 2009 Olancha, California (USA), M5.2 earthquake. Engineering Geology, 2010, 116, 184-188.	6.3	23
28	Complex rupture during the 12 January 2010 HaitiÂearthquake. Nature Geoscience, 2010, 3, 800-805.	12.9	157
29	Seismic hazard of the Enriquilloâ€"Plantain Garden fault in Haiti inferred from palaeoseismology. Nature Geoscience, 2010, 3, 789-793.	12.9	97
30	Low-altitude Aerial Color Digital Photographic Survey of the San Andreas Fault. Seismological Research Letters, 2010, 81, 453-459.	1.9	1
31	Uncertainties in slip-rate estimates for the Mission Creek strand of the southern San Andreas fault at Biskra Palms Oasis, southern California. Bulletin of the Geological Society of America, 2010, 122, 1360-1377.	3.3	92
32	230Th/U dating of a late Pleistocene alluvial fan along the southern San Andreas fault. Bulletin of the Geological Society of America, 2010, 122, 1347-1359.	3.3	30
33	ShakeOut, California Style. Anesthesia and Analgesia, 2010, 110, 655-656.	2.2	1
34	Co-seismic ruptures of the 12 May 2008, Ms 8.0 Wenchuan earthquake, Sichuan: Eastâ€"west crustal shortening on oblique, parallel thrusts along the eastern edge of Tibet. Earth and Planetary Science Letters, 2009, 286, 355-370.	4.4	286
35	Broadband simulations for M_w 7.8 southern San Andreas earthquakes: Ground motion sensitivity to rupture speed. Geophysical Research Letters, 2008, 35, .	4.0	95
36	The Wister Mud Pot Lineament: Southeastward Extension or Abandoned Strand of the San Andreas Fault?. Bulletin of the Seismological Society of America, 2008, 98, 1720-1729.	2.3	30

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37	Kinematic GPS solutions for aircraft trajectories: Identifying and minimizing systematic height errors associated with atmospheric propagation delays. Geophysical Research Letters, 2007, 34, n/a-n/a.	4.0	16
38	Uplift and subsidence associated with the great Aceh-Andaman earthquake of 2004. Journal of Geophysical Research, 2006, 111, n/a-n/a.	3.3	193
39	Geologic and Geodetic Aspects of the December 2004 Great Sumatra-Andaman and 2005 Nias-Simeulue Earthquakes. Earthquake Spectra, 2006, 22, 13-42.	3.1	1
40	Recent volcanic history of Irazù•volcano, Costa Rica: Alternation and mixing of two magma batches, and pervasive mixing. , 2006, , .		13
41	Slip history of the 2003 San Simeon earthquake constrained by combining 1-Hz GPS, strong motion, and teleseismic data. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	102
42	Preliminary Report on the 22 December 2003, M 6.5 San Simeon, California Earthquake. Seismological Research Letters, 2004, 75, 155-172.	1.9	64
43	Dynamic Rupture Modeling of the Transition from Thrust to Strike-Slip Motion in the 2002 Denali Fault Earthquake, Alaska. Bulletin of the Seismological Society of America, 2004, 94, S190-S201.	2.3	41
44	Fault Interactions and Large Complex Earthquakes in the Los Angeles Area. Science, 2003, 302, 1946-1949.	12.6	44
45	High-Resolution Topography along Surface Rupture of the 16 October 1999 Hector Mine, California, Earthquake (Mw 7.1) from Airborne Laser Swath Mapping. Bulletin of the Seismological Society of America, 2002, 92, 1570-1576.	2.3	65
46	Continuous GPS Observations of Postseismic Deformation Following the 16 October 1999 Hector Mine, California, Earthquake (Mw 7.1). Bulletin of the Seismological Society of America, 2002, 92, 1403-1422.	2.3	40
47	Tectonic contraction across Los Angeles after removal of groundwater pumping effects. Nature, 2001, 412, 812-815.	27.8	320
48	Stress loading from viscous flow in the lower crust and triggering of aftershocks following the 1994 Northridge, California, Earthquake. Geophysical Research Letters, 1999, 26, 3209-3212.	4.0	51
49	Deformation following the 1994 Northridge Earthquake (M=6.7), Southern California. Geophysical Research Letters, 1998, 25, 2725-2728.	4.0	5
50	Detection of aquifer system compaction and land subsidence using interferometric synthetic aperture radar, Antelope Valley, Mojave Desert, California. Water Resources Research, 1998, 34, 2573-2585.	4.2	362
51	The geodetic signature of the M8.0 Oct. 9,1995, Jalisco Subduction Earthquake. Geophysical Research Letters, 1997, 24, 715-718.	4.0	55
52	Postseismic Rebound in Fault Step-Overs Caused by Pore Fluid Flow. Science, 1996, 273, 1202-1204.	12.6	215
53	1957 Gobi-Altay, Mongolia, earthquake as a prototype for southern California's most devastating earthquake. Geology, 1996, 24, 579.	4.4	38
54	Earthquake geodesy and hazard monitoring. Reviews of Geophysics, 1995, 33, 249.	23.0	9

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55	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
56	Detection of crustal deformation from the Landers earthquake sequence using continuous geodetic measurements. Nature, 1993, 361, 337-340.	27.8	108
57	Near-Field Investigations of the Landers Earthquake Sequence, April to July 1992. Science, 1993, 260, 171-176.	12.6	392
58	Geodesy tracks plate motion. Nature, 1992, 355, 681-682.	27.8	2
59	Seismicity and fault interaction, Southern San Jacinto Fault Zone and adjacent faults, southern California: Implications for seismic hazard. Tectonics, 1991, 10, 1187-1203.	2.8	20
60	Crossâ€fault triggering in the November 1987 Superstition Hills Earthquake Sequence, southern California. Geophysical Research Letters, 1989, 16, 199-202.	4.0	205
61	Transition from double to single Wadatiâ€Benioff seismic zone in the Shumagin Islands, Alaska. Geophysical Research Letters, 1987, 14, 143-146.	4.0	39