Roger Bilham

List of Publications by Year
in descending order

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133 papers	11,651 citations	28274 55 h-index	28297 105 g-index
138 all docs	138 docs citations	138 times ranked	6235 citing authors

#	Article	IF	Citations
1	Present-Day Crustal Deformation in China Constrained by Global Positioning System Measurements. Science, 2001, 294, 574-577.	12.6	990
2	GPS measurements of present-day convergence across the Nepal Himalaya. Nature, 1997, 386, 61-64.	27.8	641
3	EARTHQUAKES: Himalayan Seismic Hazard. Science, 2001, 293, 1442-1444.	12.6	549
4	On the mechanics of earthquake afterslip. Journal of Geophysical Research, 1991, 96, 8441-8452.	3.3	543
5	Plateau â€˜pop-upâ€™ in the great 1897 Assam earthquake. Nature, 2001, 410, 806-809.	27.8	426
6	Imaging the Indian subcontinent beneath the Himalaya. Nature, 2005, 435, 1222-1225.	27.8	419
7	Kinematics of the India-Eurasia collision zone from GPS measurements. Journal of Geophysical Research, 1999, 104, 1077-1093.	3.3	322
8	A slow earthquake sequence on the San Andreas fault. Nature, 1996, 383, 65-68.	27.8	303
9	GPS geodetic constraints on Caribbean-North America Plate Motion. Geophysical Research Letters, 2000, 27, 437-440.	4.0	288
10	The motion and active deformation of India. Geophysical Research Letters, 2001, 28, 647-650.	4.0	253
11	A large silent earthquake in the Guerrero seismic gap, Mexico. Geophysical Research Letters, 2003, 30, .	4.0	232
12	Geodetic evidence for a low slip rate in the Altyn Tagh fault system. Nature, 2000, 404, 69-72.	27.8	227
13	Himalayan earthquakes: a review of historical seismicity and early 21st century slip potential. Geological Society Special Publication, 2019, 483, 423-482.	1.3	190
14	Partial and Complete Rupture of the Indo-Andaman Plate Boundary 1847-2004. Seismological Research Letters, 2005, 76, 299-311.	1.9	181
15	Constraints on Himalayan deformation inferred from vertical velocity fields in Nepal and Tibet. Journal of Geophysical Research, 1994, 99, 13897-13912.	3.3	179
16	Corruption kills. Nature, 2011, 469, 153-155.	27.8	178
17	Lessons from the Haiti earthquake. Nature, 2010, 463, 878-879.	27.8	175
18	Transient fault slip in Guerrero, southern Mexico. Geophysical Research Letters, 2001, 28, 3753-3756.	4.0	172

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19	Intensity, Magnitude, Location, and Attenuation in India for Felt Earthquakes since 1762. Bulletin of the Seismological Society of America, 2010, 100, 570-584.	2.3	170
20	Clockwise rotation of the Brahmaputra Valley relative to India: Tectonic convergence in the eastern Himalaya, Naga Hills, and Shillong Plateau. Journal of Geophysical Research: Solid Earth, 2014, 119, 6558-6571.	3.4	162
21	GPS estimate of relative motion between the Caribbean and South American plates, and geologic implications for Trinidad and Venezuela. Geology, 2001, 29, 75.	4.4	158
22	The seismic future of cities. Bulletin of Earthquake Engineering, 2009, 7, 839-887.	4.1	158
23	Great Himalayan earthquakes and the Tibetan plateau. Nature, 2006, 444, 165-170.	27.8	156
24	Increased pressure from rising bubbles as a mechanism for remotely triggered seismicity. Nature, 1994, 371, 408-410.	27.8	153
25	A Flying Start, Then a Slow Slip. Science, 2005, 308, 1126-1127.	12.6	151
26	Secular and tidal strain across the Main Ethiopian Rift. Geophysical Research Letters, 1999, 26, 2789-2792.	4.0	131
27	Rift-transform kinematics in south Iceland: Deformation from Global Positioning System measurements, 1986 to 1992. Journal of Geophysical Research, 1995, 100, 6235-6248.	3.3	120
28	Miocene rise of the Shillong Plateau and the beginning of the end for the Eastern Himalaya. Earth and Planetary Science Letters, 2008, 269, 337-351.	4.4	120
29	Source area and rupture parameters of the 31 December 1881Mw= 7.9 Car Nicobar earthquake estimated from tsunamis recorded in the Bay of Bengal. Journal of Geophysical Research, 2003, 108, .	3.3	111
30	Partitioning of Indiaâ€Eurasia convergence in the Pamirâ€Hindu Kush from GPS measurements. Geophysical Research Letters, 2010, 37, .	4.0	110
31	Seismic slip deficit in the Kashmir Himalaya from GPS observations. Geophysical Research Letters, 2013, 40, 5642-5645.	4.0	110
32	Velocity field across the Southern Caribbean Plate Boundary and estimates of Caribbean/South-American Plate Motion using GPS Geodesy 1994-2000. Geophysical Research Letters, 2001, 28, 2987-2990.	4.0	103
33	Response of Long Valley Caldera to theMw= 7.3 Landers, California, Earthquake. Journal of Geophysical Research, 1995, 100, 12985-13005.	3.3	90
34	Sawtooth segmentation and deformation processes on the southern San Andreas Fault, California. Geophysical Research Letters, 1985, 12, 557-560.	4.0	87
35	Inescapable slow slip on the Altyn Tagh fault. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	85
36	The 26 January 2001 M 7.6 Bhuj, India, Earthquake: Observed and Predicted Ground Motions. Bulletin of the Seismological Society of America, 2002, 92, 2061-2079.	2.3	84

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37	The Hindu Kush Seismic Zone as a Paradigm for the Creation of Ultrahighâ€Pressure Diamondâ€and Coesiteâ€Bearing Continental Rocks. Journal of Geology, 2001, 109, 143-153.	1.4	82
38	Localized and distributed creep along the southern San Andreas Fault. Journal of Geophysical Research: Solid Earth, 2014, 119, 7909-7922.	3.4	82
39	The 26 January 2001 "Republic Day" Earthquake, India. Seismological Research Letters, 2001, 72, 328-335.	1.9	81
40	Earthquakes in Afghanistan. Seismological Research Letters, 2003, 74, 107-123.	1.9	80
41	Implications for elastic energy storage in the Himalaya from the Gorkha 2015 earthquake and other incomplete ruptures of the Main Himalayan Thrust. Quaternary International, 2017, 462, 3-21.	1.5	80
42	Himalayan strain reservoir inferred from limited afterslip following the Gorkha earthquake. Nature Geoscience, 2016, 9, 533-537.	12.9	79
43	Analysing the 1811â€“1812 New Madrid earthquakes with recent instrumentally recorded aftershocks. Nature, 2004, 429, 284-288.	27.8	78
44	Distributed Nubia-Somalia relative motion and dike intrusion in the Main Ethiopian Rift. Geophysical Journal International, 2006, 165, 303-310.	2.4	77
45	Raising Kathmandu. Nature Geoscience, 2015, 8, 582-584.	12.9	77
46	How perfect is the Himalayan arc?. Geology, 2001, 29, 791.	4.4	76
47	Seismic Hazard in Karachi, Pakistan: Uncertain Past, Uncertain Future. Seismological Research Letters, 2007, 78, 601-613.	1.9	75
48	Interseismic strain accumulation along the western boundary of the Indian subcontinent. Journal of Geophysical Research, 2012, 117, .	3.3	69
49	Slip on faults in the Imperial Valley triggered by the 4 April 2010 Mw 7.2 El Mayor-Cucapah earthquake revealed by InSAR. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	68
50	Surface deformation in the region of the 1905 Kangra Mw = 7.8 earthquake in the period 1846â€“2001. Geophysical Research Letters, 2005, 32, .	4.0	67
51	Slip parameters for the Rann of Kachchh, India, 16 June 1819, earthquake, quantified from contemporary accounts. Geological Society Special Publication, 1999, 146, 295-319.	1.3	64
52	Magma chamber deflation recorded by the global positioning system: The Hekla 1991 Eruption. Geophysical Research Letters, 1992, 19, 1483-1486.	4.0	63
53	Flexure of the Indian plate and intraplate earthquakes. Journal of Earth System Science, 2003, 112, 315-329.	1.3	62
54	Nailing down the slip rate of the Altyn Tagh fault. Geophysical Research Letters, 2013, 40, 5382-5386.	4.0	62

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55	Tidal Tilt Measurement in Europe. Nature, 1973, 243, 74-75.	27.8	59
56	Anthropocene metamorphosis of the Indus Delta and lower floodplain. Anthropocene, 2013, 3, 24-35.	3.3	58
57	Slip on an active wedge thrust from geodetic observations of the 8 October 2005 Kashmir earthquake. Geology, 2007, 35, 267.	4.4	57
58	Surface creep on the North Anatolian Fault at Ismetpasa, Turkey, 1944â€“2016. Journal of Geophysical Research: Solid Earth, 2016, 121, 7409-7431.	3.4	55
59	Postseismic deformation of the Andaman Islands following the 26 December, 2004 Great Sumatraâ€“Andaman earthquake. Geophysical Research Letters, 2007, 34, .	4.0	54
60	Report on the August 2012 Brawley Earthquake Swarm in Imperial Valley, Southern California. Seismological Research Letters, 2013, 84, 177-189.	1.9	48
61	The morphology of thrust faulting in the 21 September 1999, Chichi, Taiwan earthquake. Journal of Asian Earth Sciences, 2000, 18, 351-367.	2.3	47
62	Slow Slip Event On the Southern San Andreas Fault Triggered by the 2017 M_w8.2 Chiapas (Mexico) Earthquake. Journal of Geophysical Research: Solid Earth, 2019, 124, 9956-9975.	3.4	46
63	Long-Term Creep Rates on the Hayward Fault: Evidence for Controls on the Size and Frequency of Large Earthquakes. Bulletin of the Seismological Society of America, 2012, 102, 31-41.	2.3	45
64	The Shillong Plateau and the great 1897 Assam earthquake. Tectonics, 2015, 34, 1792-1812.	2.8	45
65	Slow tilt reversal of the Lesser Himalaya between 1862 and 1992 at 78oE, and bounds to the southeast rupture of the 1905 Kangra earthquake. Geophysical Journal International, 2001, 144, 713-728.	2.4	43
66	Do weak global stresses synchronize earthquakes?. Geophysical Research Letters, 2017, 44, 8320-8327.	4.0	42
67	Ball-and-socket tectonic rotation during the 2013 <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi mathvariant="normal">M</mml:mi></mml:mrow><mml:mrow><mml:mi mathvariant="normal">w</mml:mi></mml:mrow></mml:msub><mml:mn>7.7</mml:mn></mml:math>Balochistan earthquake. Earth and Planetary Science Letters, 2014, 403, 210-216.	4.4	40
68	Surface deformation and subsurface slip of the 28 March 1999Mw= 6.4 west Himalayan Chamoli earthquake from InSAR analysis. Geophysical Research Letters, 2006, 33, .	4.0	39
69	The tectonic and geomagnetic significance of paleomagnetic observations from volcanic rocks from central Afar, Africa. Earth and Planetary Science Letters, 2000, 180, 225-241.	4.4	38
70	Dynamic triggering of creep events in the Salton Trough, Southern California by regional<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:mi mathvariant="normal">M</mml:mi><mml:mo>â‰¥</mml:mo><mml:mn>5.4</mml:mn></mml:math>earthquakes constrained by geodetic observations and numerical simulations. Earth and Planetary Science Letters, 2015, 427, 1-10.	4.4	38
71	The Sarez-Pamir Earthquake and Landslide of 18 February 1911. Seismological Research Letters, 2012, 83, 294-314.	1.9	37
72	Shallow Creep Along the 1999 Izmit Earthquake Rupture (Turkey) From GPS and High Temporal Resolution Interferometric Synthetic Aperture Radar Data (2011â€“2017). Journal of Geophysical Research: Solid Earth, 2019, 124, 2218-2236.	3.4	37

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73	A ninth century earthquake-induced landslide and flood in the Kashmir Valley, and earthquake damage to Kashmirâ€™s Medieval temples. Bulletin of Earthquake Engineering, 2014, 12, 79-109.	4.1	36
74	Earthquakes and urban growth. Nature, 1988, 336, 625-626.	27.8	35
75	Global Positioning System measurements of Indian Plate Motion and convergence across the lesser Himalaya. Geophysical Research Letters, 1996, 23, 3107-3110.	4.0	35
76	Present-day crustal movement and tectonic deformation in China continent. Science in China Series D: Earth Sciences, 2002, 45, 865-874.	0.9	35
77	Comparing tiltmeters for crustal deformation measurement â€“ A preliminary report. Geophysical Research Letters, 1984, 11, 963-966.	4.0	34
78	Urban Earthquake Fatalities: A Safer World, or Worse to Come?. Seismological Research Letters, 2004, 75, 706-712.	1.9	34
79	Earthquakes and sea level: Space and terrestrial metrology on a changing planet. Reviews of Geophysics, 1991, 29, 1-29.	23.0	31
80	Historical earthquakes in Srinagar, Kashmir: Clues from the Shiva Temple at Pandrethan. , 2010, , .		30
81	Stickâ€“slip advance of the Kohat Plateau in Pakistan. Nature Geoscience, 2012, 5, 147-150.	12.9	29
82	California Creepmeters. Seismological Research Letters, 2004, 75, 481-492.	1.9	28
83	Recent inactivity in African rift. Nature, 1992, 357, 447-447.	27.8	26
84	Strain accumulation 1986-1992 across the Reykjanes Peninsula Plate Boundary, Iceland, determined from GPS measurements. Geophysical Research Letters, 1994, 21, 125-128.	4.0	25
85	Fold and thrust partitioning in a contracting fold belt: Insights from the 1931 Mach earthquake in Baluchistan. Tectonics, 2009, 28, .	2.8	25
86	The Iceland GPS Geodetic Field Campain 1986. Eos, 1987, 68, 1809-1818.	0.1	24
87	1991-1992 GPS measurements across the Nepal Himalaya. Geophysical Research Letters, 1994, 21, 1169-1172.	4.0	24
88	Abrupt magma chamber contraction and microseismicity at Campi Flegrei, Italy: Cause and effect determined from strainmeters and tiltmeters. Journal of Geophysical Research: Solid Earth, 2015, 120, 5467-5478.	3.4	23
89	A two-layer model for aseismic slip on the Superstition Hills fault, California. Bulletin of the Seismological Society of America, 1992, 82, 1223-1235.	2.3	22
90	The 1737 Calcutta earthquake and cyclone evaluated. Bulletin of the Seismological Society of America, 1994, 84, 1650-1657.	2.3	22

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91	Wagon Loads of Sand Blows in White County, Illinois. Seismological Research Letters, 2005, 76, 373-386.	1.9	21
92	Coseismic Strain and the Transition to Surface Afterslip Recorded by Creepmeters near the 2004 Parkfield Epicenter. Seismological Research Letters, 2005, 76, 49-57.	1.9	21
93	New Constraints on the Mechanism and Rupture Area for the 1905 MwÂ7.8 Kangra Earthquake, Northwest Himalaya. Bulletin of the Seismological Society of America, 2017, 107, 2467-2479.	2.3	21
94	Thermally induced errors in fluid tube tiltmeters. Journal of Geophysical Research, 1977, 82, 5699-5704.	3.3	20
95	Buildings as Weapons of Mass Destruction. Science, 2013, 341, 618-619.	12.6	20
96	Societal and observational problems in earthquake risk assessments and their delivery to those most at risk. Tectonophysics, 2013, 584, 166-173.	2.2	19
97	Oldham's Lost Fault. Seismological Research Letters, 2013, 84, 702-710.	1.9	17
98	Subsurface creep on the Hayward Fault, Fremont, California. Geophysical Research Letters, 1997, 24, 1307-1310.	4.0	16
99	Aseismic slip on the San Andreas Fault south of Loma Prieta. Geophysical Research Letters, 1990, 17, 1445-1448.	4.0	15
100	Uplift in the Nepal Himalaya revealed by Spirit leveling. Geophysical Research Letters, 1992, 19, 1539-1542.	4.0	15
101	Geodetic constraints on the Bhuj 2001 earthquake and surface deformation in the Kachchh Rift Basin. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	14
102	The Iceland 1986 GPS geodetic survey: tectonic goals and data processing results. Bulletin Geodesique, 1993, 67, 148-172.	0.4	12
103	Aseismic growth of Durmid Hill, southeasternmost San Andreas Fault, California. Journal of Geophysical Research, 1993, 98, 14233-14243.	3.3	12
104	Search for buckling of the southwest Indian coast related to Himalayan collision. , 1999, , .		12
105	Comment on â€œInterpreting the style of faulting and paleoseismicity associated with the 1897 Shillong, northeast India, earthquakeâ€•by C. P. Rajendran et al.. Tectonics, 2006, 25, n/a-n/a.	2.8	12
106	Tom La Touche and the Great Assam Earthquake of 12 June 1897: Letters from the Epicenter. Seismological Research Letters, 2008, 79, 426-437.	1.9	12
107	Invisible faults under shaky ground. Nature Geoscience, 2010, 3, 743-745.	12.9	12
108	Aggravated Earthquake Risk in South Asia. , 2014, , 103-141.		12

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109	The July 2019 Ridgecrest, California, Earthquake Sequence Recorded by Creepmeters: Negligible Epicentral Afterslip and Prolonged Triggered Slip at Teleseismic Distances. Seismological Research Letters, 2020, 91, 707-720.	1.9	12
110	GEOPHYSICS: Dangerous Tectonics, Fragile Buildings, and Tough Decisions. Science, 2006, 311, 1873-1875.	12.6	11
111	Microstrain stability of Peninsular India 1864â€“1994. Journal of Earth System Science, 1995, 104, 131-146.	1.3	11
112	A densely spaced array of sea level monitors for the detection of vertical crustal deformation in the Shumagin Seismic Gap, Alaska. Journal of Geophysical Research, 1986, 91, 9067-9080.	3.3	9
113	Mmax. , 2015, , 119-140.		7
114	Kashmir Valley Megaearthquakes. American Scientist, 2009, 97, 1.	0.1	7
115	Postseismic relaxation in Kashmir and lateral variations in crustal architecture and materials. Geophysical Research Letters, 2015, 42, 4375-4383.	4.0	6
116	Revisiting Earthquakes in the Los Angeles, California, Basin During the Early Instrumental Period: Evidence for an Association With Oil Production. Journal of Geophysical Research: Solid Earth, 2018, 123, 10,684.	3.4	6
117	After the Earth Quakes. , 2005, , .		6
118	Hydrostatic levels in precision geodesy and crustal deformation measurement. Journal of Geophysical Research, 1986, 91, 9202-9216.	3.3	5
119	3D geometry of the strain-field at transform plate boundaries: Implications for seismic rupture. Geophysical Research Letters, 1994, 21, 2523-2526.	4.0	5
120	The door knockers of Mansurah: Strong shaking in a region of low perceived seismic risk, Sindh, Pakistan. , 2010, , .		5
121	Design Considerations in an Ultra-Stable, Long Baseline Tiltmeter â€" Results from a Laser Tiltmeter. , 1979, , 235-254.		5
122	Vertical geodesy without slope dependent errorsâ€"a proposed hydrostatic pressure level using water at 4Â°C. Tectonophysics, 1983, 97, 337-349.	2.2	4
123	Interaction Between the Himalaya and the Flexed Indian Plateâ€"Spatial Fluctuations in Seismic Hazard in India in the Past Millennium?. AIP Conference Proceedings, 2008, , .	0.4	4
124	Remote sensing and the search for surface rupture, Haiti 2010. Natural Hazards, 2013, 68, 213-217.	3.4	4
125	Poroelastic stress changes associated with primary oil production in the Los Angeles Basin, California. The Leading Edge, 2018, 37, 108-116.	0.7	4
126	The 1892 Chaman, Pakistan, Earthquake. Seismological Research Letters, 2019, 90, 2293-2303.	1.9	4

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127	Aseismic strain episodes at Campi Flegrei Caldera, Italy. Advances in Geosciences, 0, 52, 119-129.	12.0	4
128	Tsunamigenic Middle Earth. Nature Geoscience, 2008, 1, 211-212.	12.9	3
129	Changes in absolute gravity 2000â€“2015, South Island, New Zealand. New Zealand Journal of Geology, and Geophysics, 2016, 59, 176-186.	1.8	3
130	Active Steadyâ€State Creep on A Nontectonic Normal Fault in Southeast Utah: Implications for Strain Release in a Rapidly Deforming Salt System. Geophysical Research Letters, 2020, 47, e2020GL087081.	4.0	1
131	Buried Aseismic Slip and Offâ€Fault Deformation on the Southernmost San Andreas Fault Triggered by the 2010 El Mayor Cucapah Earthquake Revealed by UAVSAR. Earth and Space Science, 2021, 8, e2021EA001682.	2.6	1
132	Suyyaâ€™s Flood: Numerical Models of Kashmirâ€™s Medieval Megaflood and Ancient Lake Kerewa Drainage Events. Earth Science, Systems and Society, 0, 1, .	0.0	1
133	Darwinâ€™s First Theory: Exploring Darwinâ€™s Quest for a Theory of Earth. Seismological Research Letters, 2017, 88, 1566-1567.	1.9	0