

# Yehuda Bock

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

113  
papers

7,987  
citations

50  
h-index

88  
g-index

119  
ext. papers

8,922  
ext. citations

7.3  
avg, IF

5.8  
L-index

#	Paper	IF	Citations
113	Integrated Sentinel-1 InSAR and GNSS Time-Series Along the San Andreas Fault System. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2021</b> , 126, e2021JB022579	3.6	4
112	Coevolving early afterslip and aftershock signatures of a San Andreas fault rupture. <i>Science Advances</i> , <b>2021</b> , 7,	14.3	8
111	Defining the Coseismic Phase of the Crustal Deformation Cycle With Seismogeodesy. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2021</b> , 126, e2021JB022002	3.6	2
110	GNSS Geodesy in Geophysics, Natural Hazards, Climate, and the Environment <b>2020</b> , 741-820		
109	Annual cycle in flow of Ross Ice Shelf, Antarctica: contribution of variable basal melting. <i>Journal of Glaciology</i> , <b>2020</b> , 66, 861-875	3.4	3
108	Surface deformation associated with fractures near the 2019 Ridgecrest earthquake sequence. <i>Science</i> , <b>2020</b> , 370, 605-608	33.3	21
107	Methodology and Validation of UAV-Based Video Analysis Approach for Tracking Earthquake-Induced Building Displacements. <i>Journal of Computing in Civil Engineering</i> , <b>2020</b> , 34, 04020045	5	5
106	A Global Database of Strong-Motion Displacement GNSS Recordings and an Example Application to PGD Scaling. <i>Seismological Research Letters</i> , <b>2019</b> , 90, 271-279	3	36
105	Dynamic Mapping of the Movement of Landfalling Atmospheric Rivers Over Southern California With GPS Data. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 3551-3559	4.9	5
104	Transient Deformation in California From Two Decades of GPS Displacements: Implications for a Three-Dimensional Kinematic Reference Frame. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2019</b> , 124, 12189-12223	3.6	15
103	Seismogeodetic P-wave Amplitude: No Evidence for Strong Determinism. <i>Geophysical Research Letters</i> , <b>2019</b> , 46, 11118-11126	4.9	7
102	Regional Global Navigation Satellite System Networks for Crustal Deformation Monitoring. <i>Seismological Research Letters</i> , <b>2019</b> , 91, 552-572	3	13
101	Tsunami Scenarios Based on Interseismic Models Along the Nankai Trough, Japan, From Seafloor and Onshore Geodesy. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 2448-2461	3.6	15
100	Geodetic Observations of Weak Determinism in Rupture Evolution of Large Earthquakes. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2018</b> , 123, 9950-9962	3.6	14
99	Self-contained local broadband seismogeodetic early warning system: Detection and location. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2017</b> , 122, 3197-3220	3.6	14
98	Predominant period and equivalent viscous damping ratio identification for a full-scale building shake table test. <i>Earthquake Engineering and Structural Dynamics</i> , <b>2017</b> , 46, 2459-2477	4	11
97	Physical applications of GPS geodesy: a review. <i>Reports on Progress in Physics</i> , <b>2016</b> , 79, 106801	14.4	101

96	Single-station automated detection of transient deformation in GPS time series with the relative strength index: A case study of Cascadian slow slip. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2016</b> , 121, 9077-9094	3.6	13
95	Seismogeodesy Using GPS and Low-Cost MEMS Accelerometers: Perspectives for Earthquake Early Warning and Rapid Response. <i>Bulletin of the Seismological Society of America</i> , <b>2016</b> , 106, 2469-2489	2.3	25
94	GLONASS fractional-cycle bias estimation across inhomogeneous receivers for PPP ambiguity resolution. <i>Journal of Geodesy</i> , <b>2016</b> , 90, 379-396	4.5	39
93	Local tsunami warnings: Perspectives from recent large events. <i>Geophysical Research Letters</i> , <b>2016</b> , 43, 1109-1117	4.9	52
92	Twenty-Two Years of Combined GPS Products for Geophysical Applications and a Decade of Seismogeodesy. <i>International Association of Geodesy Symposia</i> , <b>2016</b> , 49-54	0.8	7
91	Slip pulse and resonance of the Kathmandu basin during the 2015 Gorkha earthquake, Nepal. <i>Science</i> , <b>2015</b> , 349, 1091-5	33.3	229
90	Calibrating interferometric synthetic aperture radar (InSAR) images with regional GPS network atmosphere models. <i>Geophysical Journal International</i> , <b>2015</b> , 202, 2106-2119	2.6	12
89	Kinematic earthquake source inversion and tsunami runup prediction with regional geophysical data. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2015</b> , 120, 3324-3349	3.6	72
88	Earthquake magnitude calculation without saturation from the scaling of peak ground displacement. <i>Geophysical Research Letters</i> , <b>2015</b> , 42, 5197-5205	4.9	84
87	National Weather Service Forecasters Use GPS Precipitable Water Vapor for Enhanced Situational Awareness during the Southern California Summer Monsoon. <i>Bulletin of the American Meteorological Society</i> , <b>2015</b> , 96, 1867-1877	6.1	30
86	Seismogeodesy of the 2014 Mw6.1 Napa earthquake, California: Rapid response and modeling of fast rupture on a dipping strike-slip fault. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2015</b> , 120, 5013-5033	3.6	39
85	Localized and distributed creep along the southern San Andreas Fault. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2014</b> , 119, 7909-7922	3.6	63
84	Interseismic Strain Localization in the San Jacinto Fault Zone. <i>Pure and Applied Geophysics</i> , <b>2014</b> , 171, 2937-2954	2.2	46
83	A new seismogeodetic approach applied to GPS and accelerometer observations of the 2012 Brawley seismic swarm: Implications for earthquake early warning. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2013</b> , 14, 2124-2142	3.6	97
82	Evidence for Block Rotations and Basal Shear in the World's Fastest Slipping Continental Shear Zone in Nw New Guinea. <i>Geodynamic Series</i> , <b>2013</b> , 87-99		7
81	Geodetic investigation into the deformation of the Salton Trough. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 5030-5039	3.6	21
80	Near-field tsunami models with rapid earthquake source inversions from land- and ocean-based observations: The potential for forecast and warning. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 5939-5955	3.6	67
79	Triple-frequency GPS precise point positioning with rapid ambiguity resolution. <i>Journal of Geodesy</i> , <b>2013</b> , 87, 449-460	4.5	122

78	Recovering coseismic point ground tilts from collocated high-rate GPS and accelerometers. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 5095-5100	4.9	21
77	Statistical Approaches to Detecting Transient Signals in GPS: Results from the 2009-2011 Transient Detection Exercise. <i>Seismological Research Letters</i> , <b>2013</b> , 84, 444-454	3	5
76	Earthquake magnitude scaling using seismogeodetic data. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 6089-6094	4.9	62
75	Rapid modeling of the 2011 Mw 9.0 Tohoku-oki earthquake with seismogeodesy. <i>Geophysical Research Letters</i> , <b>2013</b> , 40, 2963-2968	4.9	48
74	On robust and reliable automated baseline corrections for strong motion seismology. <i>Journal of Geophysical Research: Solid Earth</i> , <b>2013</b> , 118, 1177-1187	3.6	64
73	Recent subsidence of the Venice Lagoon from continuous GPS and interferometric synthetic aperture radar. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2012</b> , 13, n/a-n/a	3.6	43
72	Rising of the lowest place on Earth due to Dead Sea water-level drop: Evidence from SAR interferometry and GPS. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		29
71	Reply to comment by P. Teatini et al. on Recent subsidence of the Venice Lagoon from continuous GPS and interferometric synthetic aperture radar. <i>Geochemistry, Geophysics, Geosystems</i> , <b>2012</b> , 13, n/a-n/a	3.6	2
70	Crustal deformation along the Dead Sea Transform and the Carmel Fault inferred from 12 years of GPS measurements. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		56
69	Real-time inversion of GPS data for finite fault modeling and rapid hazard assessment. <i>Geophysical Research Letters</i> , <b>2012</b> , 39, n/a-n/a	4.9	92
68	Real-time centroid moment tensor determination for large earthquakes from local and regional displacement records. <i>Geophysical Journal International</i> , <b>2012</b> , 188, 703-718	2.6	82
67	Real-Time Strong-Motion Broadband Displacements from Collocated GPS and Accelerometers. <i>Bulletin of the Seismological Society of America</i> , <b>2011</b> , 101, 2904-2925	2.3	149
66	Geodetic observations of an earthquake cycle at the Sumatra subduction zone: Role of interseismic strain segmentation. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		51
65	Demonstration of Earthquake Early Warning Using Total Displacement Waveforms from Real-time GPS Networks. <i>Seismological Research Letters</i> , <b>2009</b> , 80, 772-782	3	76
64	Development of data infrastructure to support scientific analysis for the International GNSS Service. <i>Journal of Geodesy</i> , <b>2009</b> , 83, 309-325	4.5	10
63	Postseismic deformation due to the Mw 6.0 2004 Parkfield earthquake: Stress-driven creep on a fault with spatially variable rate-and-state friction parameters. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114,		137
62	Partial rupture of a locked patch of the Sumatra megathrust during the 2007 earthquake sequence. <i>Nature</i> , <b>2008</b> , 456, 631-5	50.4	244
61	High rate GPS data on active volcanoes: an application to the 2005-2006 Mt. Augustine (Alaska, USA) eruption. <i>Terra Nova</i> , <b>2008</b> , 20, 134-140	3	18

60	Load Response on a Large Suspension Bridge during the NYC Marathon Revealed by GPS and Accelerometers. <i>Seismological Research Letters</i> , <b>2008</b> , 79, 12-19	3	24
59	Modeling and On-the-Fly Solutions for Solid Earth Sciences: Web Services and Data Portal for Earthquake Early Warning System <b>2008</b> ,		2
58	Analysis of streaming GPS measurements of surface displacement through a web services environment <b>2007</b> ,		3
57	Space geodetic observation of expansion of the San Gabriel Valley, California, aquifer system, during heavy rainfall in winter 2004-2005. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		54
56	Modulation of the earthquake cycle at the southern San Andreas fault by lake loading. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112,		24
55	Coseismic Slip and Afterslip of the Great Mw 9.15 Sumatra-Andaman Earthquake of 2004. <i>Bulletin of the Seismological Society of America</i> , <b>2007</b> , 97, S152-S173	2-3	349
54	Diffuse interseismic deformation across the Pacific-North America plate boundary. <i>Geology</i> , <b>2007</b> , 35, 311	5	33
53	Seismicity and deformation associated with ice-shelf rift propagation. <i>Journal of Glaciology</i> , <b>2007</b> , 53, 523-536	3-4	43
52	Architecture, performance, and scalability of a real-time global positioning system data grid. <i>Physics of the Earth and Planetary Interiors</i> , <b>2007</b> , 163, 347-359	2-3	4
51	Frictional afterslip following the 2005 Nias-Simeulue earthquake, Sumatra. <i>Science</i> , <b>2006</b> , 312, 1921-6	33-3	357
50	Deformation and slip along the Sunda megathrust in the great 2005 Nias-Simeulue earthquake. <i>Science</i> , <b>2006</b> , 311, 1897-901	33-3	245
49	Instantaneous geodetic positioning with 1000 Hz GPS measurements: Noise characteristics and implications for monitoring networks. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111, n/a-n/a		89
48	Observation and modeling of thermoelastic strain in Southern California Integrated GPS Network daily position time series. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111, n/a-n/a		52
47	Spatiotemporal filtering using principal component analysis and Karhunen-Loeve expansion approaches for regional GPS network analysis. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111, n/a-n/a		179
46	Plate-boundary deformation associated with the great Sumatra-Andaman earthquake. <i>Nature</i> , <b>2006</b> , 440, 46-51	50-4	326
45	Software tools for accessing the GPS Seamless Archive. <i>GPS Solutions</i> , <b>2004</b> , 7, 271-276	4-4	3
44	SOPAC Web site ( <a href="http://sopac.ucsd.edu">http://sopac.ucsd.edu</a> ). <i>GPS Solutions</i> , <b>2004</b> , 8, 272-277	4-4	11
43	High-rate real-time GPS network at Parkfield: Utility for detecting fault slip and seismic displacements. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4-9	78

42	GPS measurements of current crustal movements along the Dead Sea Fault. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		117
41	Error analysis of continuous GPS position time series. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		427
40	Instantaneous global plate motion model from 12 years of continuous GPS observations. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		114
39	The shallow plumbing system of Stromboli Island as imaged from 1 Hz instantaneous GPS positions. <i>Geophysical Research Letters</i> , <b>2004</b> , 31,	4-9	50
38	Detection of arbitrarily large dynamic ground motions with a dense high-rate GPS network. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4-9	112
37	Error analysis of continuous GPS position time series <b>2004</b> , 109,		1
36	Crustal motion in Indonesia from Global Positioning System measurements. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		176
35	Guadalupe Island, Mexico as a new constraint for Pacific plate motion. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4-9	16
34	Migration of seismicity and earthquake interactions monitored by GPS in SE Asia triple junction: Sulawesi, Indonesia. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ETG 7-1-ETG 7-11		33
33	Satellite interferometric observations of displacements associated with seasonal groundwater in the Los Angeles basin. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ETG 8-1-ETG 8-15		79
32	Anatomy of apparent seasonal variations from GPS-derived site position time series. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ETG 9-1-ETG 9-16		427
31	Creep along the Imperial Fault, southern California, from GPS measurements. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, ETG 12-1-ETG 12-13		29
30	Current plate motion across the Dead Sea Fault from three years of continuous GPS monitoring. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 42-1-42-4	4-9	20
29	Geodetic detection of active faults in S. California. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 2321-2324	4-9	24
28	Direct estimation of absolute precipitable water in oceanic regions by GPS tracking of a coastal buoy. <i>Geophysical Research Letters</i> , <b>2001</b> , 28, 3701-3704	4-9	24
27	Seismic wave observations with the Global Positioning System. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 21897-21916		80
26	Instantaneous geodetic positioning at medium distances with the Global Positioning System. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 28223-28253		163
25	Near real-time radar interferometry of the Mw 7.1 Hector Mine Earthquake. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 3101-3104	4-9	40

24	Rapid rotations about a vertical axis in a collisional setting revealed by the Palu Fault, Sulawesi, Indonesia. <i>Geophysical Research Letters</i> , <b>1999</b> , 26, 2677-2680	4.9	47
23	Escape tectonics in the Los Angeles metropolitan region and implications for seismic risk. <i>Nature</i> , <b>1998</b> , 394, 356-360	50.4	51
22	GPS meteorology: Reducing systematic errors in geodetic estimates for zenith delay. <i>Geophysical Research Letters</i> , <b>1998</b> , 25, 3583-3586	4.9	66
21	Southern California Permanent GPS Geodetic Array: Continuous measurements of regional crustal deformation between the 1992 Landers and 1994 Northridge earthquakes. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 18013-18033		95
20	Southern California permanent GPS geodetic array: Error analysis of daily position estimates and site velocities. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 18035-18055		344
19	Integrated satellite interferometry in Southern California. <i>Eos</i> , <b>1997</b> , 78, 293	1.5	26
18	Accretion of the southern Banda arc to the Australian plate margin determined by Global Positioning System measurements. <i>Tectonics</i> , <b>1996</b> , 15, 288-295	4.3	78
17	Estimating wet delays using numerical weather analyses and predictions. <i>Radio Science</i> , <b>1996</b> , 31, 477-487	4.4	21
16	Seeing California move with global positioning satellites. <i>Eos</i> , <b>1994</b> , 75, 251	1.5	
15	First geodetic measurement of convergence across the Java Trench. <i>Geophysical Research Letters</i> , <b>1994</b> , 21, 2135-2138	4.9	98
14	GPS measurements of crustal deformation within the Pacific-Australia plate boundary zone in Irian Jaya, Indonesia. <i>Tectonophysics</i> , <b>1994</b> , 237, 141-153	3.1	69
13	Postseismic deformation following the Landers earthquake, California, 28 June 1992. <i>Bulletin of the Seismological Society of America</i> , <b>1994</b> , 84, 780-791	2.3	141
12	Co-seismic displacements of the 1992 Landers earthquake sequence. <i>Bulletin of the Seismological Society of America</i> , <b>1994</b> , 84, 625-645	2.3	75
11	Space geodetic measurement of crustal deformation in central and southern California, 1984-1992. <i>Journal of Geophysical Research</i> , <b>1993</b> , 98, 21677-21712		216
10	One Year of Daily Satellite Orbit and Polar Motion Estimation for Near Real Time Crustal Deformation Monitoring. <i>Symposium - International Astronomical Union</i> , <b>1993</b> , 156, 279-284		
9	Detection of crustal deformation from the Landers earthquake sequence using continuous geodetic measurements. <i>Nature</i> , <b>1993</b> , 361, 337-340	50.4	93
8	Rapid resolution of crustal motion at short ranges with the global positioning system. <i>Journal of Geophysical Research</i> , <b>1992</b> , 97, 3261-3269		111
7	GLOBAL POSITIONING SYSTEM: AN OVERVIEW. <i>Terra Nova</i> , <b>1992</b> , 4, 519-523	3	

6	Simultaneous Orbit and Network Adjustment in Tennessee. <i>Journal of Surveying Engineering</i> , - ASCE, <b>1989</b> , 115, 34-45	1.3	1
5	A unified scheme for processing GPS dual-band phase observations. <i>Bulletin Geodesique</i> , <b>1988</b> , 62, 142-160		85
4	A demonstration of 1 $\sigma$ parts in 10 <sup>7</sup> accuracy using GPS. <i>Bulletin Geodesique</i> , <b>1986</b> , 60, 241-254		35
3	Centimeter-level baseline estimation with GPS interferometry. <i>Marine Geodesy</i> , <b>1985</b> , 9, 187-197	1.2	1
2	Geodetic accuracy of the Macrometer model V-1000. <i>Bulletin Geodesique</i> , <b>1984</b> , 58, 211-221		19
1	Estimating crustal deformations from a combination of baseline measurements and geophysical models. <i>Bulletin Geodesique</i> , <b>1983</b> , 57, 294-311		13