

Yehuda Bock

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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	Error analysis of continuous GPS position time series. <i>Journal of Geophysical Research</i> , 2004 , 109,		427
112	Anatomy of apparent seasonal variations from GPS-derived site position time series. <i>Journal of Geophysical Research</i> , 2002 , 107, ETG 9-1-ETG 9-16		427
111	Frictional afterslip following the 2005 Nias-Simeulue earthquake, Sumatra. <i>Science</i> , 2006 , 312, 1921-6	33.3	357
110	Coseismic Slip and Afterslip of the Great Mw 9.15 Sumatra-Andaman Earthquake of 2004. <i>Bulletin of the Seismological Society of America</i> , 2007 , 97, S152-S173	2.3	349
109	Southern California permanent GPS geodetic array: Error analysis of daily position estimates and site velocities. <i>Journal of Geophysical Research</i> , 1997 , 102, 18035-18055		344
108	Plate-boundary deformation associated with the great Sumatra-Andaman earthquake. <i>Nature</i> , 2006 , 440, 46-51	50.4	326
107	Deformation and slip along the Sunda megathrust in the great 2005 Nias-Simeulue earthquake. <i>Science</i> , 2006 , 311, 1897-901	33.3	245
106	Partial rupture of a locked patch of the Sumatra megathrust during the 2007 earthquake sequence. <i>Nature</i> , 2008 , 456, 631-5	50.4	244
105	Slip pulse and resonance of the Kathmandu basin during the 2015 Gorkha earthquake, Nepal. <i>Science</i> , 2015 , 349, 1091-5	33.3	229
104	Space geodetic measurement of crustal deformation in central and southern California, 1984-1992. <i>Journal of Geophysical Research</i> , 1993 , 98, 21677-21712		216
103	Spatiotemporal filtering using principal component analysis and Karhunen-Loeve expansion approaches for regional GPS network analysis. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		179
102	Crustal motion in Indonesia from Global Positioning System measurements. <i>Journal of Geophysical Research</i> , 2003 , 108,		176
101	Instantaneous geodetic positioning at medium distances with the Global Positioning System. <i>Journal of Geophysical Research</i> , 2000 , 105, 28223-28253		163
100	Real-Time Strong-Motion Broadband Displacements from Collocated GPS and Accelerometers. <i>Bulletin of the Seismological Society of America</i> , 2011 , 101, 2904-2925	2.3	149
99	Postseismic deformation following the Landers earthquake, California, 28 June 1992. <i>Bulletin of the Seismological Society of America</i> , 1994 , 84, 780-791	2.3	141
98	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> , 2009 , 114,		137
97	Triple-frequency GPS precise point positioning with rapid ambiguity resolution. <i>Journal of Geodesy</i> , 2013 , 87, 449-460	4.5	122

96	GPS measurements of current crustal movements along the Dead Sea Fault. <i>Journal of Geophysical Research</i> , 2004 , 109,		117
95	Instantaneous global plate motion model from 12 years of continuous GPS observations. <i>Journal of Geophysical Research</i> , 2004 , 109,		114
94	Detection of arbitrarily large dynamic ground motions with a dense high-rate GPS network. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	112
93	Rapid resolution of crustal motion at short ranges with the global positioning system. <i>Journal of Geophysical Research</i> , 1992 , 97, 3261-3269		111
92	Physical applications of GPS geodesy: a review. <i>Reports on Progress in Physics</i> , 2016 , 79, 106801	14.4	101
91	First geodetic measurement of convergence across the Java Trench. <i>Geophysical Research Letters</i> , 1994 , 21, 2135-2138	4.9	98
90	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> , 2013 , 14, 2124-2142	3.6	97
89	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> , 1997 , 102, 18013-18033		95
88	Detection of crustal deformation from the Landers earthquake sequence using continuous geodetic measurements. <i>Nature</i> , 1993 , 361, 337-340	50.4	93
87	Real-time inversion of GPS data for finite fault modeling and rapid hazard assessment. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	92
86	Instantaneous geodetic positioning with 1000 Hz GPS measurements: Noise characteristics and implications for monitoring networks. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		89
85	A unified scheme for processing GPS dual-band phase observations. <i>Bulletin Geodesique</i> , 1988 , 62, 142-160		85
84	Earthquake magnitude calculation without saturation from the scaling of peak ground displacement. <i>Geophysical Research Letters</i> , 2015 , 42, 5197-5205	4.9	84
83	Real-time centroid moment tensor determination for large earthquakes from local and regional displacement records. <i>Geophysical Journal International</i> , 2012 , 188, 703-718	2.6	82
82	Seismic wave observations with the Global Positioning System. <i>Journal of Geophysical Research</i> , 2001 , 106, 21897-21916		80
81	Satellite interferometric observations of displacements associated with seasonal groundwater in the Los Angeles basin. <i>Journal of Geophysical Research</i> , 2002 , 107, ETG 8-1-ETG 8-15		79
80	High-rate real-time GPS network at Parkfield: Utility for detecting fault slip and seismic displacements. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	78
79	Accretion of the southern Banda arc to the Australian plate margin determined by Global Positioning System measurements. <i>Tectonics</i> , 1996 , 15, 288-295	4.3	78

78	Demonstration of Earthquake Early Warning Using Total Displacement Waveforms from Real-time GPS Networks. <i>Seismological Research Letters</i> , 2009 , 80, 772-782	3	76
77	Co-seismic displacements of the 1992 landers earthquake sequence. <i>Bulletin of the Seismological Society of America</i> , 1994 , 84, 625-645	2.3	75
76	Kinematic earthquake source inversion and tsunami runup prediction with regional geophysical data. <i>Journal of Geophysical Research: Solid Earth</i> , 2015 , 120, 3324-3349	3.6	72
75	GPS measurements of crustal deformation within the Pacific-Australia plate boundary zone in Irian Jaya, Indonesia. <i>Tectonophysics</i> , 1994 , 237, 141-153	3.1	69
74	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> , 2013 , 118, 5939-5955	3.6	67
73	GPS meteorology: Reducing systematic errors in geodetic estimates for zenith delay. <i>Geophysical Research Letters</i> , 1998 , 25, 3583-3586	4.9	66
72	On robust and reliable automated baseline corrections for strong motion seismology. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 1177-1187	3.6	64
71	Localized and distributed creep along the southern San Andreas Fault. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 7909-7922	3.6	63
70	Earthquake magnitude scaling using seismogeodetic data. <i>Geophysical Research Letters</i> , 2013 , 40, 6089-6094	4.9	62
69	Crustal deformation along the Dead Sea Transform and the Carmel Fault inferred from 12 years of GPS measurements. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		56
68	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> , 2007 , 112,		54
67	Observation and modeling of thermoelastic strain in Southern California Integrated GPS Network daily position time series. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		52
66	Local tsunami warnings: Perspectives from recent large events. <i>Geophysical Research Letters</i> , 2016 , 43, 1109-1117	4.9	52
65	Geodetic observations of an earthquake cycle at the Sumatra subduction zone: Role of interseismic strain segmentation. <i>Journal of Geophysical Research</i> , 2010 , 115,		51
64	Escape tectonics in the Los Angeles metropolitan region and implications for seismic risk. <i>Nature</i> , 1998 , 394, 356-360	50.4	51
63	The shallow plumbing system of Stromboli Island as imaged from 1 Hz instantaneous GPS positions. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	50
62	Rapid modeling of the 2011 Mw 9.0 Tohoku-oki earthquake with seismogeodesy. <i>Geophysical Research Letters</i> , 2013 , 40, 2963-2968	4.9	48
61	Rapid rotations about a vertical axis in a collisional setting revealed by the Palu Fault, Sulawesi, Indonesia. <i>Geophysical Research Letters</i> , 1999 , 26, 2677-2680	4.9	47

60	Interseismic Strain Localization in the San Jacinto Fault Zone. <i>Pure and Applied Geophysics</i> , 2014 , 171, 2937-2954	2.2	46
59	Recent subsidence of the Venice Lagoon from continuous GPS and interferometric synthetic aperture radar. <i>Geochemistry, Geophysics, Geosystems</i> , 2012 , 13, n/a-n/a	3.6	43
58	Seismicity and deformation associated with ice-shelf rift propagation. <i>Journal of Glaciology</i> , 2007 , 53, 523-536	3.4	43
57	Near real-time radar interferometry of the Mw 7.1 Hector Mine Earthquake. <i>Geophysical Research Letters</i> , 2000 , 27, 3101-3104	4.9	40
56	GLONASS fractional-cycle bias estimation across inhomogeneous receivers for PPP ambiguity resolution. <i>Journal of Geodesy</i> , 2016 , 90, 379-396	4.5	39
55	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> , 2015 , 120, 5013-5033	3.6	39
54	A Global Database of Strong-Motion Displacement GNSS Recordings and an Example Application to PGD Scaling. <i>Seismological Research Letters</i> , 2019 , 90, 271-279	3	36
53	A demonstration of 1 μ parts in 10 ⁷ accuracy using GPS. <i>Bulletin Geodesique</i> , 1986 , 60, 241-254		35
52	Diffuse interseismic deformation across the Pacific-North America plate boundary. <i>Geology</i> , 2007 , 35, 311	5	33
51	Migration of seismicity and earthquake interactions monitored by GPS in SE Asia triple junction: Sulawesi, Indonesia. <i>Journal of Geophysical Research</i> , 2002 , 107, ETG 7-1-ETG 7-11		33
50	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> , 2015 , 96, 1867-1877	6.1	30
49	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> , 2012 , 117, n/a-n/a		29
48	Creep along the Imperial Fault, southern California, from GPS measurements. <i>Journal of Geophysical Research</i> , 2002 , 107, ETG 12-1-ETG 12-13		29
47	Integrated satellite interferometry in Southern California. <i>Eos</i> , 1997 , 78, 293	1.5	26
46	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> , 2016 , 106, 2469-2489	2.3	25
45	Load Response on a Large Suspension Bridge during the NYC Marathon Revealed by GPS and Accelerometers. <i>Seismological Research Letters</i> , 2008 , 79, 12-19	3	24
44	Modulation of the earthquake cycle at the southern San Andreas fault by lake loading. <i>Journal of Geophysical Research</i> , 2007 , 112,		24
43	Geodetic detection of active faults in S. California. <i>Geophysical Research Letters</i> , 2001 , 28, 2321-2324	4.9	24

42	Direct estimation of absolute precipitable water in oceanic regions by GPS tracking of a coastal buoy. <i>Geophysical Research Letters</i> , 2001 , 28, 3701-3704	4.9	24
41	Geodetic investigation into the deformation of the Salton Trough. <i>Journal of Geophysical Research: Solid Earth</i> , 2013 , 118, 5030-5039	3.6	21
40	Recovering coseismic point ground tilts from collocated high-rate GPS and accelerometers. <i>Geophysical Research Letters</i> , 2013 , 40, 5095-5100	4.9	21
39	Estimating wet delays using numerical weather analyses and predictions. <i>Radio Science</i> , 1996 , 31, 477-487	4.4	21
38	Surface deformation associated with fractures near the 2019 Ridgecrest earthquake sequence. <i>Science</i> , 2020 , 370, 605-608	33.3	21
37	Current plate motion across the Dead Sea Fault from three years of continuous GPS monitoring. <i>Geophysical Research Letters</i> , 2002 , 29, 42-1-42-4	4.9	20
36	Geodetic accuracy of the Macrometer model V-1000. <i>Bulletin Geodesique</i> , 1984 , 58, 211-221		19
35	High rate GPS data on active volcanoes: an application to the 2005-2006 Mt. Augustine (Alaska, USA) eruption. <i>Terra Nova</i> , 2008 , 20, 134-140	3	18
34	Guadalupe Island, Mexico as a new constraint for Pacific plate motion. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	16
33	Tsunami Scenarios Based on Interseismic Models Along the Nankai Trough, Japan, From Seafloor and Onshore Geodesy. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 2448-2461	3.6	15
32	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> , 2019 , 124, 12189-12223	3.6	15
31	Self-contained local broadband seismogeodetic early warning system: Detection and location. <i>Journal of Geophysical Research: Solid Earth</i> , 2017 , 122, 3197-3220	3.6	14
30	Geodetic Observations of Weak Determinism in Rupture Evolution of Large Earthquakes. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 9950-9962	3.6	14
29	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> , 2016 , 121, 9077-9094	3.6	13
28	Regional Global Navigation Satellite System Networks for Crustal Deformation Monitoring. <i>Seismological Research Letters</i> , 2019 , 91, 552-572	3	13
27	Estimating crustal deformations from a combination of baseline measurements and geophysical models. <i>Bulletin Geodesique</i> , 1983 , 57, 294-311		13
26	Calibrating interferometric synthetic aperture radar (InSAR) images with regional GPS network atmosphere models. <i>Geophysical Journal International</i> , 2015 , 202, 2106-2119	2.6	12
25	Predominant period and equivalent viscous damping ratio identification for a full-scale building shake table test. <i>Earthquake Engineering and Structural Dynamics</i> , 2017 , 46, 2459-2477	4	11

24	SOPAC Web site (http://sopac.ucsd.edu). <i>GPS Solutions</i> , 2004 , 8, 272-277	4.4	11
23	Development of data infrastructure to support scientific analysis for the International GNSS Service. <i>Journal of Geodesy</i> , 2009 , 83, 309-325	4.5	10
22	Coevolving early afterslip and aftershock signatures of a San Andreas fault rupture. <i>Science Advances</i> , 2021 , 7,	14.3	8
21	Seismogeodetic P-wave Amplitude: No Evidence for Strong Determinism. <i>Geophysical Research Letters</i> , 2019 , 46, 11118-11126	4.9	7
20	Evidence for Block Rotations and Basal Shear in the World's Fastest Slipping Continental Shear Zone in Nw New Guinea. <i>Geodynamic Series</i> , 2013 , 87-99		7
19	Twenty-Two Years of Combined GPS Products for Geophysical Applications and a Decade of Seismogeodesy. <i>International Association of Geodesy Symposia</i> , 2016 , 49-54	0.8	7
18	Dynamic Mapping of the Movement of Landfalling Atmospheric Rivers Over Southern California With GPS Data. <i>Geophysical Research Letters</i> , 2019 , 46, 3551-3559	4.9	5
17	Statistical Approaches to Detecting Transient Signals in GPS: Results from the 2009-2011 Transient Detection Exercise. <i>Seismological Research Letters</i> , 2013 , 84, 444-454	3	5
16	Methodology and Validation of UAV-Based Video Analysis Approach for Tracking Earthquake-Induced Building Displacements. <i>Journal of Computing in Civil Engineering</i> , 2020 , 34, 04020045	5.5	5
15	Architecture, performance, and scalability of a real-time global positioning system data grid. <i>Physics of the Earth and Planetary Interiors</i> , 2007 , 163, 347-359	2.3	4
14	Integrated Sentinel-1 InSAR and GNSS Time-Series Along the San Andreas Fault System. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB022579	3.6	4
13	Analysis of streaming GPS measurements of surface displacement through a web services environment 2007 ,		3
12	Software tools for accessing the GPS Seamless Archive. <i>GPS Solutions</i> , 2004 , 7, 271-276	4.4	3
11	Annual cycle in flow of Ross Ice Shelf, Antarctica: contribution of variable basal melting. <i>Journal of Glaciology</i> , 2020 , 66, 861-875	3.4	3
10	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> , 2012 , 13, n/a-n/a	3.6	2
9	Modeling and On-the-Fly Solutions for Solid Earth Sciences: Web Services and Data Portal for Earthquake Early Warning System 2008 ,		2
8	Defining the Coseismic Phase of the Crustal Deformation Cycle With Seismogeodesy. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB022002	3.6	2
7	Simultaneous Orbit and Network Adjustment in Tennessee. <i>Journal of Surveying Engineering, - ASCE</i> , 1989 , 115, 34-45	1.3	1

- 6 Centimeter-level baseline estimation with GPS interferometry. *Marine Geodesy*, **1985**, 9, 187-197 1.2 1
- 5 Error analysis of continuous GPS position time series **2004**, 109, 1
- 4 One Year of Daily Satellite Orbit and Polar Motion Estimation for Near Real Time Crustal Deformation Monitoring. *Symposium - International Astronomical Union*, **1993**, 156, 279-284
- 3 Seeing California move with global positioning satellites. *Eos*, **1994**, 75, 251 1.5
- 2 GLOBAL POSITIONING SYSTEM: AN OVERVIEW. *Terra Nova*, **1992**, 4, 519-523 3
- 1 GNSS Geodesy in Geophysics, Natural Hazards, Climate, and the Environment **2020**, 741-820