

Geoffrey Blewitt

List of Publications by Citations

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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.

64

papers

4,218

citations

30

h-index

64

g-index

68

ext. papers

4,955

ext. citations

7.5

avg, IF

5.93

L-index

#	Paper	IF	Citations
64	A geodetic plate motion and Global Strain Rate Model. <i>Geochemistry, Geophysics, Geosystems</i> , 2014 , 15, 3849-3889	3.6	401
63	Carrier phase ambiguity resolution for the Global Positioning System applied to geodetic baselines up to 2000 km. <i>Journal of Geophysical Research</i> , 1989 , 94, 10187-10203		373
62	Effect of annual signals on geodetic velocity. <i>Journal of Geophysical Research</i> , 2002 , 107, ETG 9-1-ETG 9-11		351
61	Crustal displacements due to continental water loading. <i>Geophysical Research Letters</i> , 2001 , 28, 651-654	4.9	271
60	Harnessing the GPS Data Explosion for Interdisciplinary Science. <i>Eos</i> , 2018 , 99,	1.5	265
59	A new global mode of Earth deformation: seasonal cycle detected. <i>Science</i> , 2001 , 294, 2342-5	33.3	254
58	Self-consistency in reference frames, geocenter definition, and surface loading of the solid Earth. <i>Journal of Geophysical Research</i> , 2003 , 108,		211
57	Uplift and seismicity driven by groundwater depletion in central California. <i>Nature</i> , 2014 , 509, 483-6	50.4	160
56	Rapid determination of earthquake magnitude using GPS for tsunami warning systems. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	148
55	MIDAS robust trend estimator for accurate GPS station velocities without step detection. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 2054-2068	3.6	144
54	Atmospheric pressure loading effects on Global Positioning System coordinate determinations. <i>Journal of Geophysical Research</i> , 1994 , 99, 23939-23950		143
53	GPS for real-time earthquake source determination and tsunami warning systems. <i>Journal of Geodesy</i> , 2009 , 83, 335-343	4.5	92
52	Terrestrial reference frame NA12 for crustal deformation studies in North America. <i>Journal of Geodynamics</i> , 2013 , 72, 11-24	2.2	85
51	GIA Model Statistics for GRACE Hydrology, Cryosphere, and Ocean Science. <i>Geophysical Research Letters</i> , 2018 , 45, 2203-2212	4.9	83
50	Evidence for deep magma injection beneath Lake Tahoe, Nevada-California. <i>Science</i> , 2004 , 305, 1277-80	33.3	78
49	Geocenter motions from GPS: A unified observation model. <i>Journal of Geophysical Research</i> , 2006 , 111, n/a-n/a		69
48	Inversion of Earth's changing shape to weigh sea level in static equilibrium with surface mass redistribution. <i>Journal of Geophysical Research</i> , 2003 , 108,		69

47	Search for domain wall dark matter with atomic clocks on board global positioning system satellites. <i>Nature Communications</i> , 2017 , 8, 1195	17.4	64
46	GPS Imaging of vertical land motion in California and Nevada: Implications for Sierra Nevada uplift. <i>Journal of Geophysical Research: Solid Earth</i> , 2016 , 121, 7681-7703	3.6	64
45	Absolute far-field displacements from the 28 June 1992 Landers earthquake sequence. <i>Nature</i> , 1993 , 361, 340-342	50.4	63
44	Block modeling of crustal deformation of the northern Walker Lane and Basin and Range from GPS velocities. <i>Journal of Geophysical Research</i> , 2011 , 116,		57
43	Methodology for global geodetic time series estimation: A new tool for geodynamics. <i>Journal of Geophysical Research</i> , 2000 , 105, 11083-11100		57
42	Fixed point theorems of GPS carrier phase ambiguity resolution and their application to massive network processing: Ambizap. <i>Journal of Geophysical Research</i> , 2008 , 113,		53
41	Co- and postseismic deformation of the 28 March 2005 Nias Mw 8.7 earthquake from continuous GPS data. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	43
40	Contemporary uplift of the Sierra Nevada, western United States, from GPS and InSAR measurements. <i>Geology</i> , 2012 , 40, 667-670	5	42
39	A Robust Estimation of the 3-D Intraplate Deformation of the North American Plate From GPS. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 4388-4412	3.6	40
38	Effect of gravitational consistency and mass conservation on seasonal surface mass loading models. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	39
37	On the stability of a geodetic no-net-rotation frame and its implication for the International Terrestrial Reference Frame. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	34
36	Accommodation of missing shear strain in the Central Walker Lane, western North America: Constraints from dense GPS measurements. <i>Earth and Planetary Science Letters</i> , 2016 , 440, 169-177	5.3	32
35	Degree-2 harmonics of the Earth's mass load estimated from GPS and Earth rotation data. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a	4.9	30
34	Global deformation from the great 2004 Sumatra-Andaman Earthquake observed by GPS: Implications for rupture process and global reference frame. <i>Earth, Planets and Space</i> , 2006 , 58, 141-148 ^{2.9}		29
33	Rise of the Ellsworth mountains and parts of the East Antarctic coast observed with GPS. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	26
32	Assessing the impact of vertical land motion on twentieth century global mean sea level estimates. <i>Journal of Geophysical Research: Oceans</i> , 2016 , 121, 4980-4993	3.3	25
31	Testing for fault activity at Yucca Mountain, Nevada, using independent GPS results from the BARGEN network. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	23
30	Geodetic network optimization for geophysical parameters. <i>Geophysical Research Letters</i> , 2000 , 27, 3615-3618	4.3	22

29	Understanding of Contemporary Regional Sea-Level Change and the Implications for the Future. <i>Reviews of Geophysics</i> , 2020 , 58, e2019RG000672	23.1	22
28	Present-day motion and deformation of the Colorado Plateau. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	21
27	Geodetic evidence for a buoyant mantle plume beneath the Eifel volcanic area, NW Europe. <i>Geophysical Journal International</i> , 2020 , 222, 1316-1332	2.6	20
26	Evidence for an active shear zone in southern Nevada linking the Wasatch fault to the Eastern California shear zone. <i>Geology</i> , 2010 , 38, 475-478	5	20
25	Uplift of the Western Transverse Ranges and Ventura Area of Southern California: A Four-Technique Geodetic Study Combining GPS, InSAR, Leveling, and Tide Gauges. <i>Journal of Geophysical Research: Solid Earth</i> , 2018 , 123, 836-858	3.6	17
24	Effect of viscoelastic postseismic relaxation on estimates of interseismic crustal strain accumulation at Yucca Mountain, Nevada. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	16
23	Geodetic constraints on contemporary deformation in the northern Walker Lane: 3. Central Nevada seismic belt postseismic relaxation 2009 ,		15
22	Drought-Triggered Magmatic Inflation, Crustal Strain, and Seismicity Near the Long Valley Caldera, Central Walker Lane. <i>Journal of Geophysical Research: Solid Earth</i> , 2019 , 124, 6072-6091	3.6	14
21	Atmospheric pressure loading in GPS positions: dependency on GPS processing methods and effect on assessment of seasonal deformation in the contiguous USA and Alaska. <i>Journal of Geodesy</i> , 2020 , 94, 1	4.5	13
20	Steady contemporary deformation of the central Basin and Range Province, western United States. <i>Journal of Geophysical Research: Solid Earth</i> , 2014 , 119, 5235-5253	3.6	13
19	Degree-1 Earth deformation from very long baseline interferometry measurements. <i>Geophysical Research Letters</i> , 2002 , 29, 28-1-28-4	4.9	11
18	Rise of Great Lakes Surface Water, Sinking of the Upper Midwest of the United States, and Viscous Collapse of the Forebulge of the Former Laurentide Ice Sheet. <i>Journal of Geophysical Research: Solid Earth</i> , 2020 , 125, e2020JB019739	3.6	11
17	GPS and Space-Based Geodetic Methods 2015 , 307-338		9
16	Geodetic observation of contemporary deformation in the northern Walker Lane: 1. Semipermanent GPS strategy 2009 ,		9
15	The Global Positioning System Geodesy Odyssey. <i>Navigation, Journal of the Institute of Navigation</i> , 2002 , 49, 7-33	2.3	9
14	Robust estimation of spatially varying common-mode components in GPS time-series. <i>Journal of Geodesy</i> , 2021 , 95, 1	4.5	9
13	GPS and Space-Based Geodetic Methods 2007 , 351-390		8
12	Search for transient ultralight dark matter signatures with networks of precision measurement devices using a Bayesian statistics method. <i>Physical Review D</i> , 2018 , 97,	4.9	6

11	Bias in Geodetic Site Velocity due to Annual Signals: Theory and Assessment. <i>International Association of Geodesy Symposia</i> , 2002 , 499-500	0.8	6
10	Global Comparisons of ERA5 and the Operational HRES Tropospheric Delay and Water Vapor Products With GPS and MODIS. <i>Earth and Space Science</i> , 2021 , 8, e2020EA001417	3.1	5
9	Rapid GPS-based determination of earthquake displacement field and magnitude for tsunami propagation modeling and warning 2010 ,		4
8	The Viscosity of the Top Third of the Lower Mantle Estimated Using GPS, GRACE, and Relative Sea Level Measurements of Glacial Isostatic Adjustment. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021537	3.6	4
7	GPS Imaging of Global Vertical Land Motion for Studies of Sea Level Rise. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB022355	3.6	4
6	Interseismic deformation and geologic evolution of the Death Valley Fault Zone. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		3
5	Application of Clebsch-Gordan Coefficients and Isomorphic Frame Transformations to Invert Earth's Changing Geometrical Shape for Continental Hydrological Loading and Sea Level's Passive Response 2005 , 518-523		3
4	Rapid determination of earthquake magnitude and displacement field from GPS-observed coseismic offsets for tsunami warning 2012 ,		1
3	Consistency of Earth Rotation, Gravity, and Shape Measurements. <i>International Association of Geodesy Symposia</i> , 2009 , 463-471	0.8	1
2	GPS Constraints on Drought-Induced Groundwater Loss Around Great Salt Lake, Utah, With Implications for Seismicity Modulation. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2021JB022020 ¹	3.6	1
1	Geodetic Extension Across the Southern Basin and Range and Colorado Plateau. <i>Journal of Geophysical Research: Solid Earth</i> , 2021 , 126, e2020JB021355	3.6	0