

# James L Davis

## List of Publications by Year in descending order

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98  
papers

7,803  
citations

53794

45  
h-index

49909

87  
g-index

98  
all docs

98  
docs citations

98  
times ranked

4790  
citing authors

#	ARTICLE	IF	CITATIONS
1	Geodesy by radio interferometry: Effects of atmospheric modeling errors on estimates of baseline length. <i>Radio Science</i> , 1985, 20, 1593-1607.	1.6	1,007
2	Recent mass balance of polar ice sheets inferred from patterns of global sea-level change. <i>Nature</i> , 2001, 409, 1026-1029.	27.8	479
3	Space-Geodetic Constraints on Glacial Isostatic Adjustment in Fennoscandia. <i>Science</i> , 2001, 291, 2381-2385.	12.6	304
4	Comparison of geodetic and geologic data from the Wasatch region, Utah, and implications for the spectral character of Earth deformation at periods of 10 to 10 million years. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	253
5	Measurement of the Solar Gravitational Deflection of Radio Waves using Geodetic Very-Long-Baseline Interferometry Data, 1979-1999. <i>Physical Review Letters</i> , 2004, 92, 121101.	7.8	228
6	Geodesy by radio interferometry: Water vapor radiometry for estimation of the wet delay. <i>Journal of Geophysical Research</i> , 1991, 96, 6541-6555.	3.3	227
7	GPS APPLICATIONS FOR GEODYNAMICS AND EARTHQUAKE STUDIES. <i>Annual Review of Earth and Planetary Sciences</i> , 1997, 25, 301-336.	11.0	213
8	Contemporary strain rates in the northern Basin and Range province from GPS data. <i>Tectonics</i> , 2003, 22, n/a-n/a.	2.8	213
9	Geodesy by radio interferometry: The application of Kalman Filtering to the analysis of very long baseline interferometry data. <i>Journal of Geophysical Research</i> , 1990, 95, 12561-12581.	3.3	212
10	Continuous GPS measurements of postglacial adjustment in Fennoscandia 1. Geodetic results. <i>Journal of Geophysical Research</i> , 2002, 107, ETG 3-1.	3.3	169
11	GRACE Gravity Data Constrain Ancient Ice Geometries and Continental Dynamics over Laurentia. <i>Science</i> , 2007, 316, 881-883.	12.6	166
12	Geodesy using the Global Positioning System: The effects of signal scattering on estimates of site position. <i>Journal of Geophysical Research</i> , 1995, 100, 9921-9934.	3.3	165
13	Climate-driven deformation of the solid Earth from GRACE and GPS. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	165
14	Measurement of the Solar Gravitational Deflection of Radio Waves Using Very-Long-Baseline Interferometry. <i>Physical Review Letters</i> , 1995, 75, 1439-1442.	7.8	161
15	Land water storage within the Congo Basin inferred from GRACE satellite gravity data. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	150
16	Ground-based measurement of gradients in the wet radio refractivity of air. <i>Radio Science</i> , 1993, 28, 1003-1018.	1.6	148
17	Glacial isostatic adjustment and the anomalous tide gauge record of eastern North America. <i>Nature</i> , 1996, 379, 331-333.	27.8	132
18	On seasonal signals in geodetic time series. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	131

#	ARTICLE	IF	CITATIONS
19	A spectral formalism for computing three-dimensional deformations due to surface loads: 2. Present-day glacial isostatic adjustment. <i>Journal of Geophysical Research</i> , 1994, 99, 7075.	3.3	129
20	Tidal tomography constrains Earth's deep-mantle buoyancy. <i>Nature</i> , 2017, 551, 321-326.	27.8	129
21	Near-field hydro-isostasy: the implementation of a revised sea-level equation. <i>Geophysical Journal International</i> , 1999, 139, 464-482.	2.4	125
22	Present-day pattern of Cordilleran deformation in the western United States. <i>Geology</i> , 1999, 27, 371.	4.4	117
23	Precision Geodesy Using the Mark-III Very-Long-Baseline Interferometer System. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 1985, GE-23, 438-449.	6.3	109
24	A spectral formalism for computing three-dimensional deformations due to surface loads: 1. Theory. <i>Journal of Geophysical Research</i> , 1994, 99, 7057.	3.3	108
25	An improved and extended GPS-derived 3D velocity field of the glacial isostatic adjustment (GIA) in Fennoscandia. <i>Journal of Geodesy</i> , 2007, 81, 213-230.	3.6	102
26	Continuous GPS measurements of postglacial adjustment in Fennoscandia: 2. Modeling results. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	99
27	Assessment of global positioning system measurements for studies of crustal deformation. <i>Journal of Geophysical Research</i> , 1989, 94, 13635-13650.	3.3	90
28	Stepwise changes in glacier flow speed coincide with calving and glacial earthquakes at Helheim Glacier, Greenland. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	90
29	Glacial isostatic adjustment on a rotating earth. <i>Geophysical Journal International</i> , 2001, 147, 562-578.	2.4	88
30	Constraining hydrological and cryospheric mass flux in southeastern Alaska using space-based gravity measurements. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	87
31	Evidence for Deep Magma Injection Beneath Lake Tahoe, Nevada-California. <i>Science</i> , 2004, 305, 1277-1280.	12.6	86
32	Global geoid and sea level changes due to present-day ice mass fluctuations. <i>Journal of Geophysical Research</i> , 2001, 106, 30849-30863.	3.3	73
33	Spatial and temporal melt variability at Helheim Glacier, East Greenland, and its effect on ice dynamics. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	71
34	Geodesy by radio interferometry: Evidence for contemporary plate motion. <i>Journal of Geophysical Research</i> , 1986, 91, 8341-8347.	3.3	70
35	Impact of self-attraction and loading on the annual cycle in sea level. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	69
36	Annual variations in water storage and precipitation in the Amazon Basin. <i>Journal of Geodesy</i> , 2008, 82, 9-13.	3.6	64

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37	Measuring regional atmospheric water vapor using the Swedish Permanent GPS Network. <i>Geophysical Research Letters</i> , 1997, 24, 2663-2666.	4.0	63
38	Continuous GPS measurements of contemporary deformation across the Northern Basin and Range Province. <i>Geophysical Research Letters</i> , 1998, 25, 563-566.	4.0	62
39	BARGEN continuous GPS data across the eastern Basin and Range province, and implications for fault system dynamics. <i>Geophysical Journal International</i> , 2004, 159, 842-862.	2.4	62
40	Accuracy of high-rate GPS for seismology. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	59
41	Present-day post-glacial sea level change far from the Late Pleistocene ice sheets: Implications for recent analyses of tide gauge records. <i>Geophysical Research Letters</i> , 1995, 22, 2529-2532.	4.0	54
42	A statistical filtering approach for Gravity Recovery and Climate Experiment (GRACE) gravity data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	53
43	Characterization of site-specific GPS errors using a short-baseline network of braced monuments at Yucca Mountain, southern Nevada. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	49
44	Combination of geodetic observations and models for glacial isostatic adjustment fields in Fennoscandia. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	47
45	Geodesy using the Swedish Permanent GPS Network: Effects of snow accumulation on estimates of site positions. <i>Geophysical Research Letters</i> , 1996, 23, 1601-1604.	4.0	46
46	Constraining proposed combinations of ice history and Earth rheology using VLBI determined baseline length rates in North America. <i>Geophysical Research Letters</i> , 1993, 20, 2387-2390.	4.0	43
47	Vertical crustal motion observed in the BIFROST project. <i>Journal of Geodynamics</i> , 2003, 35, 425-441.	1.6	40
48	Active megadetachment beneath the western United States. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	40
49	Site-specific multipath characteristics of global IGS and CORS GPS sites. <i>Journal of Geodesy</i> , 2004, 77, 799-803.	3.6	38
50	Sudden increase in tidal response linked to calving and acceleration at a large Greenland outlet glacier. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	38
51	Assessment of GPS velocity accuracy for the Basin and Range Geodetic Network (BARGEN). <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	37
52	Body tides on a 3-D elastic earth: Toward a tidal tomography. <i>Earth and Planetary Science Letters</i> , 2009, 277, 86-90.	4.4	34
53	Global Positioning System constraints on fault slip rates in the Death Valley Region, California and Nevada. <i>Geophysical Research Letters</i> , 1997, 24, 3073-3076.	4.0	33
54	Investigations of Fennoscandian glacial isostatic adjustment using modern sea level records. <i>Journal of Geophysical Research</i> , 1999, 104, 2733-2747.	3.3	33

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55	Causes of accelerating sea level on the East Coast of North America. <i>Geophysical Research Letters</i> , 2017, 44, 5133-5141.	4.0	33
56	The BIFROST project: GPS determined 3-D displacement rates in Fennoscandia from 800 days of continuous observations in the SWEPOS network. <i>Tectonophysics</i> , 1998, 294, 305-321.	2.2	32
57	Sensing atmospheric structure using small-scale space geodetic networks. <i>Geophysical Research Letters</i> , 1999, 26, 2445-2448.	4.0	32
58	Tectonic implications of a dense continuous GPS velocity field at Yucca Mountain, Nevada. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	32
59	Geodesy using the Swedish permanent GPS network: Effects of signal scattering on estimates of relative site positions. <i>Journal of Geophysical Research</i> , 1996, 101, 17841-17860.	3.3	30
60	Investigation of glacial isostatic adjustment in the northeast U.S. using GPS measurements. <i>Geophysical Research Letters</i> , 2002, 29, 4-1.	4.0	29
61	Crustal loading near Great Salt Lake, Utah. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	28
62	Subcontinental-scale crustal velocity changes along the Pacificâ€“North America plate boundary. <i>Nature</i> , 2006, 441, 1131-1134.	27.8	28
63	Global Positioning System Measurements for Crustal Deformation: Precision and Accuracy. <i>Science</i> , 1989, 244, 1337-1340.	12.6	27
64	Development of an antenna and multipath calibration system for Global Positioning System sites. <i>Radio Science</i> , 2004, 39, n/a-n/a.	1.6	25
65	Dynamic Sea Level Variation From GNSS: 2020 Shumagin Earthquake Tsunami Resonance and Hurricane Laura. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091378.	4.0	25
66	Effects of atmospheric modeling errors on determinations of baseline vectors from very long baseline interferometry. <i>Journal of Geophysical Research</i> , 1991, 96, 643-650.	3.3	24
67	Anomalous Strain Accumulation in the Yucca Mountain Area, Nevada. <i>Science</i> , 1998, 279, 2096-2100.	12.6	24
68	Decontaminating tide gauge records for the influence of glacial isostatic adjustment: The potential impact of 3-D Earth structure. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	23
69	BIFROST project: 3-D crustal deformation rates derived from GPS confirm postglacial rebound in Fennoscandia. <i>Earth, Planets and Space</i> , 2001, 53, 703-708.	2.5	20
70	II: SOLID EARTH PHYSICS: Long Wavelength Sea Level and Solid Surface Perturbations Driven by Polar Ice Mass Variations: Fingerprinting Greenland and Antarctic Ice Sheet Flux. <i>Space Science Reviews</i> , 2003, 108, 81-93.	8.1	20
71	Global distortion of GPS networks associated with satellite antenna model errors. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	20
72	Dynamic Adjustment of the Ocean Circulation to Self-Attraction and Loading Effects. <i>Journal of Physical Oceanography</i> , 2015, 45, 678-689.	1.7	18

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73	Determination of tidal Love number parameters in the diurnal band using an extensive VLBI data set. <i>Geophysical Research Letters</i> , 1994, 21, 705-708.	4.0	17
74	Effects of self-attraction and loading on annual variations of ocean bottom pressure. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	17
75	Geodetic constraints on glacial isostatic adjustment. <i>Geodynamic Series</i> , 2002, , 3-32.	0.1	17
76	BIFROST: Observing the three-dimensional deformation of Fennoscandia. <i>Geodynamic Series</i> , 2002, , 69-93.	0.1	17
77	Some comments on the 3-D impulse response of a Maxwell viscoelastic earth. <i>Geophysical Journal International</i> , 1995, 120, 227-234.	2.4	16
78	Detection of transient motions with the Global Positioning System. <i>Journal of Geophysical Research</i> , 1996, 101, 11249-11261.	3.3	15
79	Self-attraction and loading effects on ocean mass redistribution at monthly and longer time scales. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	15
80	Stochastic filtering for determining gravity variations for decade-long time series of GRACE gravity. <i>Journal of Geophysical Research: Solid Earth</i> , 2016, 121, 2915-2931.	3.4	14
81	The influence of a finite glaciation phase on predictions of post-glacial isostatic adjustment. <i>Earth and Planetary Science Letters</i> , 1995, 136, 343-361.	4.4	13
82	Scientific objectives of current and future WEGENER activities. <i>Tectonophysics</i> , 1998, 294, 177-223.	2.2	13
83	A method for detecting rapid mass flux of small glaciers using local sea level variations. <i>Earth and Planetary Science Letters</i> , 2003, 213, 477-485.	4.4	13
84	Sensing atmospheric structure: Tropospheric tomographic results of the small-scale GPS campaign at the Onsala Space Observatory. <i>Earth, Planets and Space</i> , 2000, 52, 941-945.	2.5	12
85	Using ground-based GPS to characterize atmospheric turbulence. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	12
86	Evidence for non-tidal diurnal velocity variations of Helheim Glacier, East Greenland. <i>Journal of Glaciology</i> , 2014, 60, 1169-1180.	2.2	10
87	Atmospheric water-vapor signals in GPS data: synergies, correlations, signals and errors. <i>Physics and Chemistry of the Earth</i> , 2001, 26, 513-522.	0.6	9
88	Dynamic and regression modeling of ocean variability in the tide-gauge record at seasonal and longer periods. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	8
89	Detecting Large-scale Intracontinental Slow-slip Events (SSEs) Using Geodograms. <i>Seismological Research Letters</i> , 2010, 81, 694-698.	1.9	8
90	Helheim Glacier diurnal velocity fluctuations driven by surface melt forcing. <i>Journal of Glaciology</i> , 2022, 68, 77-89.	2.2	8

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91	Complex Patterns of Antarctic Ice Sheet Mass Change Resolved by Time-Dependent Rate Modeling of GRACE and GRACE Follow-On Observations. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	7
92	The Global Fingerprint of Modern Ice-Mass Loss on 3-D Crustal Motion. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095477.	4.0	7
93	Using the Global Positioning System to Study the Atmosphere of the Earth: Overview and Prospects. <i>International Association of Geodesy Symposia</i> , 1996, , 233-242.	0.4	7
94	Using a spatially realistic load model to assess impacts of Alaskan glacier ice loss on sea level. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	6
95	The effect of turbulence on atmospheric gradient parameters estimated from ground-based radiometric and space geodetic measurements. <i>Geophysical Research Letters</i> , 1992, 19, 2183-2186.	4.0	5
96	Space Geodetic Measurements of Plate Boundary Deformation in the Western U.S. Cordillera. <i>Geodynamic Series</i> , 2013, , 27-55.	0.1	5
97	Rapid ionospheric variations at high latitudes: Focusing on Greenland. <i>Advances in Space Research</i> , 2020, 65, 1673-1684.	2.6	2
98	GPS satellite surveying. <i>Eos</i> , 1991, 72, 171-171.	0.1	0