James L Davis

List of Publications by Year
in descending order

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98	7,803	53794 45	49909 87
papers	citations	h-index	g-index

98	98	98	4790
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Helheim Glacier diurnal velocity fluctuations driven by surface melt forcing. Journal of Glaciology, 2022, 68, 77-89.	2.2	8
2	Complex Patterns of Antarctic Ice Sheet Mass Change Resolved by Timeâ€Dependent Rate Modeling of GRACE and GRACE Followâ€On Observations. Geophysical Research Letters, 2021, 48, .	4.0	7
3	Dynamic Sea Level Variation From GNSS: 2020 Shumagin Earthquake Tsunami Resonance and Hurricane Laura. Geophysical Research Letters, 2021, 48, e2020GL091378.	4.0	25
4	The Global Fingerprint of Modern Iceâ€Mass Loss on 3â€D Crustal Motion. Geophysical Research Letters, 2021, 48, e2021GL095477.	4.0	7
5	Rapid ionospheric variations at high latitudes: Focusing on Greenland. Advances in Space Research, 2020, 65, 1673-1684.	2.6	2
6	Causes of accelerating sea level on the East Coast of North America. Geophysical Research Letters, 2017, 44, 5133-5141.	4.0	33
7	Tidal tomography constrains Earthâ€™s deep-mantle buoyancy. Nature, 2017, 551, 321-326.	27.8	129
8	Stochastic filtering for determining gravity variations for decadeâ€long time series of GRACE gravity. Journal of Geophysical Research: Solid Earth, 2016, 121, 2915-2931.	3.4	14
9	Dynamic Adjustment of the Ocean Circulation to Self-Attraction and Loading Effects. Journal of Physical Oceanography, 2015, 45, 678-689.	1.7	18
10	Evidence for non-tidal diurnal velocity variations of Helheim Glacier, East Greenland. Journal of Glaciology, 2014, 60, 1169-1180.	2.2	10
11	Space Geodetic Measurements of Plate Boundary Deformation in the Western U.S. Cordillera. Geodynamic Series, 2013, , 27-55.	0.1	5
12	On seasonal signals in geodetic time series. Journal of Geophysical Research, 2012, 117, .	3.3	131
13	Using a spatially realistic load model to assess impacts of Alaskan glacier ice loss on sea level. Journal of Geophysical Research, 2011, 116, .	3.3	6
14	Self-attraction and loading effects on ocean mass redistribution at monthly and longer time scales. Journal of Geophysical Research, 2011, 116, .	3.3	15
15	Detecting Large-scale Intracontinental Slow-slip Events (SSEs) Using Geodograms. Seismological Research Letters, 2010, 81, 694-698.	1.9	8
16	Combination of geodetic observations and models for glacial isostatic adjustment fields in Fennoscandia. Journal of Geophysical Research, 2010, 115, .	3.3	47
17	Impact of selfâ€attraction and loading on the annual cycle in sea level. Journal of Geophysical Research, 2010, 115, .	3.3	69
18	Effects of selfâ€attraction and loading on annual variations of ocean bottom pressure. Journal of Geophysical Research, 2010, 115, .	3.3	17

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19	Sudden increase in tidal response linked to calving and acceleration at a large Greenland outlet glacier. Geophysical Research Letters, 2010, 37, .	4.0	38
20	Spatial and temporal melt variability at Helheim Glacier, East Greenland, and its effect on ice dynamics. Journal of Geophysical Research, 2010, 115, .	3.3	71
21	Body tides on a 3-D elastic earth: Toward a tidal tomography. Earth and Planetary Science Letters, 2009, 277, 86-90.	4.4	34
22	Using groundâ€based GPS to characterize atmospheric turbulence. Geophysical Research Letters, 2009, 36, .	4.0	12
23	Characterization of siteâ€specific GPS errors using a shortâ€baseline network of braced monuments at Yucca Mountain, southern Nevada. Journal of Geophysical Research, 2009, 114, .	3.3	49
24	Annual variations in water storage and precipitation in the Amazon Basin. Journal of Geodesy, 2008, 82, 9-13.	3.6	64
25	A statistical filtering approach for Gravity Recovery and Climate Experiment (GRACE) gravity data. Journal of Geophysical Research, 2008, 113, .	3.3	53
26	Active megadetachment beneath the western United States. Journal of Geophysical Research, 2008, 113, .	3.3	40
27	Stepâ€wise changes in glacier flow speed coincide with calving and glacial earthquakes at Helheim Glacier, Greenland. Geophysical Research Letters, 2008, 35, .	4.0	90
28	GRACE Gravity Data Constrain Ancient Ice Geometries and Continental Dynamics over Laurentia. Science, 2007, 316, 881-883.	12.6	166
29	Global distortion of GPS networks associated with satellite antenna model errors. Journal of Geophysical Research, 2007, 112, .	3.3	20
30	Dynamic and regression modeling of ocean variability in the tide-gauge record at seasonal and longer periods. Journal of Geophysical Research, 2007, 112, .	3.3	8
31	An improved and extended GPS-derived 3D velocity field of the glacial isostatic adjustment (GIA) in Fennoscandia. Journal of Geodesy, 2007, 81, 213-230.	3.6	102
32	Land water storage within the Congo Basin inferred from GRACE satellite gravity data. Geophysical Research Letters, 2006, 33, .	4.0	150
33	Accuracy of highâ€rate GPS for seismology. Geophysical Research Letters, 2006, 33, .	4.0	59
34	Decontaminating tide gauge records for the influence of glacial isostatic adjustment: The potential impact of 3-D Earth structure. Geophysical Research Letters, 2006, 33, .	4.0	23
35	Subcontinental-scale crustal velocity changes along the Pacificâ€“North America plate boundary. Nature, 2006, 441, 1131-1134.	27.8	28
36	Constraining hydrological and cryospheric mass flux in southeastern Alaska using space-based gravity measurements. Geophysical Research Letters, 2005, 32, .	4.0	87

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37	Evidence for Deep Magma Injection Beneath Lake Tahoe, Nevada-California. Science, 2004, 305, 1277-1280.	12.6	86
38	BARGEN continuous GPS data across the eastern Basin and Range province, and implications for fault system dynamics. Geophysical Journal International, 2004, 159, 842-862.	2.4	62
39	Site-specific multipath characteristics of global IGS and CORS GPS sites. Journal of Geodesy, 2004, 77, 799-803.	3.6	38
40	Measurement of the Solar Gravitational Deflection of Radio Waves using Geodetic Very-Long-Baseline Interferometry Data, 1979â€“1999. Physical Review Letters, 2004, 92, 121101.	7.8	228
41	Continuous GPS measurements of postglacial adjustment in Fennoscandia: 2. Modeling results. Journal of Geophysical Research, 2004, 109, .	3.3	99
42	Tectonic implications of a dense continuous GPS velocity field at Yucca Mountain, Nevada. Journal of Geophysical Research, 2004, 109, .	3.3	32
43	Development of an antenna and multipath calibration system for Global Positioning System sites. Radio Science, 2004, 39, n/a-n/a.	1.6	25
44	Climate-driven deformation of the solid Earth from GRACE and GPS. Geophysical Research Letters, 2004, 31, .	4.0	165
45	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. Space Science Reviews, 2003, 108, 81-93.	8.1	20
46	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. Journal of Geophysical Research, 2003, 108, .	3.3	253
47	Contemporary strain rates in the northern Basin and Range province from GPS data. Tectonics, 2003, 22, n/a-n/a.	2.8	213
48	Crustal loading near Great Salt Lake, Utah. Geophysical Research Letters, 2003, 30, .	4.0	28
49	Assessment of GPS velocity accuracy for the Basin and Range Geodetic Network (BARGEN). Geophysical Research Letters, 2003, 30, .	4.0	37
50	A method for detecting rapid mass flux of small glaciers using local sea level variations. Earth and Planetary Science Letters, 2003, 213, 477-485.	4.4	13
51	Vertical crustal motion observed in the BIFROST project. Journal of Geodynamics, 2003, 35, 425-441.	1.6	40
52	Continuous GPS measurements of postglacial adjustment in Fennoscandia 1. Geodetic results. Journal of Geophysical Research, 2002, 107, ETG 3-1.	3.3	169
53	Investigation of glacial isostatic adjustment in the northeast U.S. using GPS measurements. Geophysical Research Letters, 2002, 29, 4-1.	4.0	29
54	Geodetic constraints on glacial isostatic adjustment. Geodynamic Series, 2002, , 3-32.	0.1	17

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55	BIFROST: Observing the three-dimensional deformation of Fennoscandia. Geodynamic Series, 2002, , 69-93.	0.1	17
56	Global geoid and sea level changes due to present-day ice mass fluctuations. Journal of Geophysical Research, 2001, 106, 30849-30863.	3.3	73
57	Atmospheric water-vapor signals in GPS data: synergies, correlations, signals and errors. Physics and Chemistry of the Earth, 2001, 26, 513-522.	0.6	9
58	BIFROST project: 3-D crustal deformation rates derived from GPS confirm postglacial rebound in Fennoscandia. Earth, Planets and Space, 2001, 53, 703-708.	2.5	20
59	Glacial isostatic adjustment on a rotating earth. Geophysical Journal International, 2001, 147, 562-578.	2.4	88
60	Recent mass balance of polar ice sheets inferred from patterns of global sea-level change. Nature, 2001, 409, 1026-1029.	27.8	479
61	Space-Geodetic Constraints on Glacial Isostatic Adjustment in Fennoscandia. Science, 2001, 291, 2381-2385.	12.6	304
62	Sensing atmospheric structure: Tropospheric tomographic results of the small-scale GPS campaign at the Onsala Space Observatory. Earth, Planets and Space, 2000, 52, 941-945.	2.5	12
63	Present-day pattern of Cordilleran deformation in the western United States. Geology, 1999, 27, 371.	4.4	117
64	Near-field hydro-isostasy: the implementation of a revised sea-level equation. Geophysical Journal International, 1999, 139, 464-482.	2.4	125
65	Investigations of Fennoscandian glacial isostatic adjustment using modern sea level records. Journal of Geophysical Research, 1999, 104, 2733-2747.	3.3	33
66	Sensing atmospheric structure using small-scale space geodetic networks. Geophysical Research Letters, 1999, 26, 2445-2448.	4.0	32
67	Scientific objectives of current and future WEGENER activities. Tectonophysics, 1998, 294, 177-223.	2.2	13
68	The BIFROST project: GPS determined 3-D displacement rates in Fennoscandia from 800 days of continuous observations in the SWEPOS network. Tectonophysics, 1998, 294, 305-321.	2.2	32
69	Continuous GPS measurements of contemporary deformation across the Northern Basin and Range Province. Geophysical Research Letters, 1998, 25, 563-566.	4.0	62
70	Anomalous Strain Accumulation in the Yucca Mountain Area, Nevada. Science, 1998, 279, 2096-2100.	12.6	24
71	GPS APPLICATIONS FOR GEODYNAMICS AND EARTHQUAKE STUDIES. Annual Review of Earth and Planetary Sciences, 1997, 25, 301-336.	11.0	213
72	Measuring regional atmospheric water vapor using the Swedish Permanent GPS Network. Geophysical Research Letters, 1997, 24, 2663-2666.	4.0	63

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73	Global Positioning System constraints on fault slip rates in the Death Valley Region, California and Nevada. Geophysical Research Letters, 1997, 24, 3073-3076.	4.0	33
74	Geodesy using the Swedish Permanent GPS Networkâˆ· Effects of snow accumulation on estimates of site positions. Geophysical Research Letters, 1996, 23, 1601-1604.	4.0	46
75	Detection of transient motions with the Global Positioning System. Journal of Geophysical Research, 1996, 101, 11249-11261.	3.3	15
76	Geodesy using the Swedish permanent GPS network: Effects of signal scattering on estimates of relative site positions. Journal of Geophysical Research, 1996, 101, 17841-17860.	3.3	30
77	Glacial isostatic adjustment and the anomalous tide gauge record of eastern North America. Nature, 1996, 379, 331-333.	27.8	132
78	Using the Global Positioning System to Study the Atmosphere of the Earth: Overview and Prospects. International Association of Geodesy Symposia, 1996, , 233-242.	0.4	7
79	Some comments on the 3-D impulse response of a Maxwell viscoelastic earth. Geophysical Journal International, 1995, 120, 227-234.	2.4	16
80	Geodesy using the Global Positioning System: The effects of signal scattering on estimates of site position. Journal of Geophysical Research, 1995, 100, 9921-9934.	3.3	165
81	Measurement of the Solar Gravitational Deflection of Radio Waves Using Very-Long-Baseline Interferometry. Physical Review Letters, 1995, 75, 1439-1442.	7.8	161
82	The influence of a finite glaciation phase on predictions of post-glacial isostatic adjustment. Earth and Planetary Science Letters, 1995, 136, 343-361.	4.4	13
83	Present-day post-glacial sea level change far from the Late Pleistocene ice sheets: Implications for recent analyses of tide gauge records. Geophysical Research Letters, 1995, 22, 2529-2532.	4.0	54
84	A spectral formalism for computing three-dimensional deformations due to surface loads: 1. Theory. Journal of Geophysical Research, 1994, 99, 7057.	3.3	108
85	A spectral formalism for computing three-dimensional deformations due to surface loads: 2. Present-day glacial isostatic adjustment. Journal of Geophysical Research, 1994, 99, 7075.	3.3	129
86	Determination of tidal h Love number parameters in the diurnal band using an extensive VLBI data set. Geophysical Research Letters, 1994, 21, 705-708.	4.0	17
87	Constraining proposed combinations of ice history and Earth rheology using VLBI determined baseline length rates in North America. Geophysical Research Letters, 1993, 20, 2387-2390.	4.0	43
88	Groundâ€based measurement of gradients in the â€œwetâ€•radio refractivity of air. Radio Science, 1993, 28, 1003-1018.	1.6	148
89	The effect of turbulence on atmospheric gradient parameters estimated from groundâ€based radiometric and space geodetic measurements. Geophysical Research Letters, 1992, 19, 2183-2186.	4.0	5
90	GPS satellite surveying. Eos, 1991, 72, 171-171.	0.1	0

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91	Geodesy by radio interferometry: Water vapor radiometry for estimation of the wet delay. Journal of Geophysical Research, 1991, 96, 6541-6555.	3.3	227
92	Effects of atmospheric modeling errors on determinations of baseline vectors from very long baseline interferometry. Journal of Geophysical Research, 1991, 96, 643-650.	3.3	24
93	Geodesy by radio interferometry: The application of Kalman Filtering to the analysis of very long baseline interferometry data. Journal of Geophysical Research, 1990, 95, 12561-12581.	3.3	212
94	Global Positioning System Measurements for Crustal Deformation: Precision and Accuracy. Science, 1989, 244, 1337-1340.	12.6	27
95	Assessment of global positioning system measurements for studies of crustal deformation. Journal of Geophysical Research, 1989, 94, 13635-13650.	3.3	90
96	Geodesy by radio interferometry: Evidence for contemporary plate motion. Journal of Geophysical Research, 1986, 91, 8341-8347.	3.3	70
97	Precision Geodesy Using the Mark-III Very-Long-Baseline Interferometer System. IEEE Transactions on Geoscience and Remote Sensing, 1985, GE-23, 438-449.	6.3	109
98	Geodesy by radio interferometry: Effects of atmospheric modeling errors on estimates of baseline length. Radio Science, 1985, 20, 1593-1607.	1.6	1,007