List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	GPSâ€Observed Elastic Deformation Due to Surface Mass Balance Variability in the Southern Antarctic Peninsula. Geophysical Research Letters, 2022, 49, .	4.0	5
2	GPS Rates of Vertical Bedrock Motion Suggest Late Holocene Iceâ€Sheet Readvance in a Critical Sector of East Antarctica. Geophysical Research Letters, 2022, 49, .	4.0	9
3	A global, spherical finite-element model for post-seismic deformation using <i>Abaqus</i> . Geoscientific Model Development, 2022, 15, 2489-2503.	3.6	5
4	The impact of tides on Antarctic ice shelf melting. Cryosphere, 2022, 16, 1409-1429.	3.9	8
5	On the uncertainty associated with validating the global mean sea level climate record. Advances in Space Research, 2021, 68, 487-495.	2.6	5
6	Ice sheets, glaciers, and sea level. , 2021, , 707-740.		2
7	Migratory earthquake precursors are dominant on an ice stream fault. Science Advances, 2021, 7, .	10.3	6
8	Estimating Vertical Land Motion and Residual Altimeter Systematic Errors Using a Kalmanâ€Based Approach. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017106.	2.6	5
9	Limitations in Oneâ€Dimensional (an)Elastic Earth Models for Explaining GPSâ€Observed M ₂ Ocean Tide Loading Displacements in New Zealand. Journal of Geophysical Research: Solid Earth, 2021, 126, e2021JB021992.	3.4	6
10	An iterative process for efficient optimisation of parameters in geoscientific models: a demonstration using the Parallel Ice Sheet Model (PISM) version 0.7.3. Geoscientific Model Development, 2021, 14, 5107-5124.	3.6	2
11	Upper Mantle Viscosity Underneath Northern Marguerite Bay, Antarctic Peninsula Constrained by Bedrock Uplift and Ice Mass Variability. Geophysical Research Letters, 2021, 48, .	4.0	8
12	GNSS/INS-Equipped Buoys for Altimetry Validation: Lessons Learnt and New Directions from the Bass Strait Validation Facility. Remote Sensing, 2020, 12, 3001.	4.0	12
13	The Sensitivity of the Antarctic Ice Sheet to a Changing Climate: Past, Present, and Future. Reviews of Geophysics, 2020, 58, e2019RG000663.	23.0	49
14	Reduced ice mass loss and three-dimensional viscoelastic deformation in northern Antarctic Peninsula inferred from GPS. Geophysical Journal International, 2020, 222, 1013-1022.	2.4	15
15	Separation of tectonic and local components of horizontal GPS station velocities: a case study for glacial isostatic adjustment in East Antarctica. Geophysical Journal International, 2020, 222, 1555-1569.	2.4	6
16	Antarctic Surface Mass Balance: Natural Variability, Noise, and Detecting New Trends. Geophysical Research Letters, 2020, 47, e2020GL087493.	4.0	11
17	A new open-source viscoelastic solid earth deformation module implemented in Elmer (v8.4). Geoscientific Model Development, 2020, 13, 1155-1164.	3.6	6
18	Presentâ€Day Vertical Land Motion of Australia From GPS Observations and Geophysical Models. Journal of Geophysical Research: Solid Earth, 2020, 125, e2019JB018034.	3.4	18

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19	Tidal Pressurization of the Ocean Cavity Near an Antarctic Ice Shelf Grounding Line. Journal of Geophysical Research: Oceans, 2020, 125, e2019JC015562.	2.6	12
20	Estimating ocean tide loading displacements with GPS and GLONASS. Solid Earth, 2020, 11, 1849-1863.	2.8	12
21	Solid Earth change and the evolution of the Antarctic Ice Sheet. Nature Communications, 2019, 10, 503.	12.8	93
22	"Antarctica just has this hero factor…― Gendered barriers to Australian Antarctic research and remote fieldwork. PLoS ONE, 2019, 14, e0209983.	2.5	33
23	Simulated dynamic regrounding during marine ice sheet retreat. Cryosphere, 2018, 12, 2425-2436.	3.9	1
24	Sea‣evel Trend Uncertainty With Pacific Climatic Variability and Temporallyâ€Correlated Noise. Journal of Geophysical Research: Oceans, 2018, 123, 1978-1993.	2.6	34
25	Ocean Stratification and Low Melt Rates at the Ross Ice Shelf Grounding Zone. Journal of Geophysical Research: Oceans, 2018, 123, 7438-7452.	2.6	61
26	Basal friction of Fleming Glacier, Antarctica – Part 1: Sensitivity of inversion to temperature and bedrock uncertainty. Cryosphere, 2018, 12, 2637-2652.	3.9	19
27	Basal friction of Fleming Glacier, Antarctica – PartÂ2: Evolution fromÂ2008 toÂ2015. Cryosphere, 2018, 12, 2653-2666.	3.9	5
28	Common mode error in Antarctic GPS coordinate time-series on its effect on bedrock-uplift estimates. Geophysical Journal International, 2018, 214, 1652-1664.	2.4	25
29	A new global GPS data set for testing and improving modelled GIA uplift rates. Geophysical Journal International, 2018, 214, 2164-2176.	2.4	33
30	Uncertainty in geocenter estimates in the context of ITRF2014. Journal of Geophysical Research: Solid Earth, 2017, 122, 4020-4032.	3.4	27
31	Ocean Bottom Deformation Due To Presentâ€Day Mass Redistribution and Its Impact on Sea Level Observations. Geophysical Research Letters, 2017, 44, 12,306.	4.0	43
32	The increasing rate of global mean sea-level rise during 1993–2014. Nature Climate Change, 2017, 7, 492-495.	18.8	313
33	Rapid ice unloading in the Fleming Glacier region, southern Antarctic Peninsula, and its effect on bedrock uplift rates. Earth and Planetary Science Letters, 2017, 473, 164-176.	4.4	29
34	Analysis of ice shelf flexure and its InSAR representation in the grounding zone of the southern McMurdo Ice Shelf. Cryosphere, 2017, 11, 2481-2490.	3.9	18
35	Brief communication: The global signature of post-1900 land ice wastage on vertical land motion. Cryosphere, 2017, 11, 1327-1332.	3.9	22
36	Strong tidal variations in ice flow observed across the entire Ronne Ice Shelf and adjoining ice streams. Earth System Science Data, 2017, 9, 849-860.	9.9	8

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37	Ongoing deformation of Antarctica following recent Great Earthquakes. Geophysical Research Letters, 2016, 43, 1918-1927.	4.0	27
38	An assessment of forward and inverse GIA solutions for Antarctica. Journal of Geophysical Research: Solid Earth, 2016, 121, 6947-6965.	3.4	48
39	Spatial and temporal Antarctic Ice Sheet mass trends, glacioâ€isostatic adjustment, and surface processes from a joint inversion of satellite altimeter, gravity, and GPS data. Journal of Geophysical Research F: Earth Surface, 2016, 121, 182-200.	2.8	94
40	Glacial isostatic adjustment in response to changing Late Holocene behaviour of ice streams on the Siple Coast, West Antarctica. Geophysical Journal International, 2016, 205, 1-21.	2.4	17
41	Incomplete separability of Antarctic plate rotation from glacial isostatic adjustment deformation within geodetic observations. Geophysical Journal International, 2016, 204, 324-330.	2.4	26
42	Seismicity on the western Greenland Ice Sheet: Surface fracture in the vicinity of active moulins. Journal of Geophysical Research F: Earth Surface, 2015, 120, 1082-1106.	2.8	29
43	Greenland supraglacial lake drainages triggered by hydrologically induced basal slip. Nature, 2015, 522, 73-76.	27.8	106
44	Low post-glacial rebound rates in the Weddell Sea due to Late Holocene ice-sheet readvance. Earth and Planetary Science Letters, 2015, 413, 79-89.	4.4	48
45	Unabated global mean sea-level rise over the satellite altimeter era. Nature Climate Change, 2015, 5, 565-568.	18.8	227
46	Ice Sheets, Glaciers, and Sea Level. , 2015, , 713-747.		3
47	Uplift rates from a new high-density GPS network in Palmer Land indicate significant late Holocene ice loss in the southwestern Weddell Sea. Geophysical Journal International, 2015, 203, 737-754.	2.4	40
48	Levelling co-located GNSS and tide gauge stations using GNSS reflectometry. Journal of Geodesy, 2015, 89, 241-258.	3.6	59
49	Late Holocene glacial advance and ice shelf growth in Barilari Bay, Graham Land, west Antarctic Peninsula. Bulletin of the Geological Society of America, 2015, 127, 297-315.	3.3	36
50	On the Rebound: Modeling Earth's Ever-Changing Shape. Eos, 2015, 96, .	0.1	18
51	Accuracy assessment of global barotropic ocean tide models. Reviews of Geophysics, 2014, 52, 243-282.	23.0	338
52	Geodetic vertical velocities affected by recent rapid changes in polar motion. Geophysical Journal International, 2014, 199, 1161-1165.	2.4	29
53	Mass change from GRACE: a simulated comparison of Level-1B analysis techniques. Geophysical Journal International, 2014, 200, 503-518.	2.4	11
54	Rapid bedrock uplift in the Antarctic Peninsula explained by viscoelastic response to recent ice unloading. Earth and Planetary Science Letters, 2014, 397, 32-41.	4.4	122

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55	Revisiting GRACE Antarctic ice mass trends and accelerations considering autocorrelation. Earth and Planetary Science Letters, 2014, 385, 12-21.	4.4	58
56	Empirical modelling of site-specific errors in continuous GPS data. Journal of Geodesy, 2014, 88, 887-900.	3.6	30
57	Variable deceleration of Whillans Ice Stream, West Antarctica. Journal of Geophysical Research F: Earth Surface, 2014, 119, 212-224.	2.8	40
58	Empirical estimation of present-day Antarctic glacial isostatic adjustment and ice mass change. Cryosphere, 2014, 8, 743-760.	3.9	77
59	Detecting offsets in GPS time series: First results from the detection of offsets in GPS experiment. Journal of Geophysical Research: Solid Earth, 2013, 118, 2397-2407.	3.4	133
60	Improving Models of Earth's Response to Ice and Ocean Loading Changes. Eos, 2013, 94, 353-353.	0.1	0
61	King Receives 2012 Geodesy Section Award: Response. Eos, 2013, 94, 402-402.	0.1	0
62	Progress in modelling and observing Antarctic glacial isostatic adjustment. Astronomy and Geophysics, 2013, 54, 4.33-4.38.	0.2	3
63	Influence of ice-sheet geometry and supraglacial lakes on seasonal ice-flow variability. Cryosphere, 2013, 7, 1185-1192.	3.9	80
64	Greenland ice sheet motion insensitive to exceptional meltwater forcing. Proceedings of the National Academy of Sciences of the United States of America, 2013, 110, 19719-19724.	7.1	77
65	Winter motion mediates dynamic response of the Greenland Ice Sheet to warmer summers. Geophysical Research Letters, 2013, 40, 3940-3944.	4.0	125
66	Observations of enhanced thinning in the upper reaches of Svalbard glaciers. Cryosphere, 2012, 6, 1369-1381.	3.9	53
67	Lower satellite-gravimetry estimates of Antarctic sea-level contribution. Nature, 2012, 491, 586-589.	27.8	159
68	Impact of tideâ€ŧopography interactions on basal melting of Larsen C Ice Shelf, Antarctica. Journal of Geophysical Research, 2012, 117, .	3.3	61
69	Diurnal and semidiurnal tideâ€induced lateral movement of Ronne Ice Shelf, Antarctica. Geophysical Research Letters, 2012, 39, .	4.0	55
70	A Reconciled Estimate of Ice-Sheet Mass Balance. Science, 2012, 338, 1183-1189.	12.6	1,246
71	Shortâ€term variability in Greenland Ice Sheet motion forced by timeâ€varying meltwater drainage: Implications for the relationship between subglacial drainage system behavior and ice velocity. Journal of Geophysical Research, 2012, 117, .	3.3	136
72	Regional biases in absolute seaâ€level estimates from tide gauge data due to residual unmodeled vertical land movement. Geophysical Research Letters, 2012, 39, .	4.0	39

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73	Increased ice loading in the Antarctic Peninsula since the 1850s and its effect on glacial isostatic adjustment. Geophysical Research Letters, 2012, 39, .	4.0	31
74	Multiâ€decadal glacier surface lowering in the Antarctic Peninsula. Geophysical Research Letters, 2012, 39, .	4.0	36
75	A new glacial isostatic adjustment model for Antarctica: calibrated and tested using observations of relative sea-level change and present-day uplift rates. Geophysical Journal International, 2012, 190, 1464-1482.	2.4	227
76	Monument-antenna effects on GPS coordinate time series with application to vertical rates in Antarctica. Journal of Geodesy, 2012, 86, 53-63.	3.6	15
77	Precipitable water vapor estimates from homogeneously reprocessed GPS data: An intertechnique comparison in Antarctica. Journal of Geophysical Research, 2011, 116, .	3.3	46
78	Seasonal speedup of a Greenland marine-terminating outlet glacier forced by surface melt–induced changes in subglacial hydrology. Journal of Geophysical Research, 2011, 116, .	3.3	125
79	Nonlinear interaction between ocean tides and the Larsen C Ice Shelf system. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	27
80	Widespread low rates of Antarctic glacial isostatic adjustment revealed by GPS observations. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	92
81	Ocean tides in the Weddell Sea: New observations on the Filchner-Ronne and Larsen C ice shelves and model validation. Journal of Geophysical Research, 2011, 116, .	3.3	29
82	Seasonal variations in Greenland Ice Sheet motion: Inland extent and behaviour at higher elevations. Earth and Planetary Science Letters, 2011, 307, 271-278.	4.4	108
83	Correction to "Ocean tides in the Weddell Sea: New observations on the Filchner-Ronne and Larsen C ice shelves and model validation― Journal of Geophysical Research, 2011, 116, .	3.3	4
84	A benchmark study for glacial isostatic adjustment codes. Geophysical Journal International, 2011, 185, 106-132.	2.4	97
85	Special section on observation and modeling of glacial isostatic adjustment. Tectonophysics, 2011, 511, 67-68.	2.2	0
86	A Review of Higher Order Ionospheric Refraction Effects on Dual Frequency GPS. Surveys in Geophysics, 2011, 32, 197-253.	4.6	84
87	Effects of azimuthal multipath asymmetry on long GPS coordinate time series. GPS Solutions, 2011, 15, 287-297.	4.3	5
88	GPS in Claciology, Applications. Encyclopedia of Earth Sciences Series, 2011, , 471-474.	0.1	0
89	Flow of the Ross Ice Shelf, Antarctica, is modulated by the ocean tide. Journal of Glaciology, 2010, 56, 157-161.	2.2	34
90	A first look at the effects of ionospheric signal bending on a globally processed GPS network. Journal of Geodesy, 2010, 84, 491-499.	3.6	16

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91	Improved Constraints on Models of Glacial Isostatic Adjustment: A Review of the Contribution of Ground-Based Geodetic Observations. Surveys in Geophysics, 2010, 31, 465-507.	4.6	97
92	Seasonal evolution of subglacial drainage and acceleration in a Greenland outlet glacier. Nature Geoscience, 2010, 3, 408-411.	12.9	325
93	Non-linear responses of Rutford Ice Stream, Antarctica, to semi-diurnal and diurnal tidal forcing. Journal of Glaciology, 2010, 56, 167-176.	2.2	23
94	Long GPS coordinate time series: Multipath and geometry effects. Journal of Geophysical Research, 2010, 115, .	3.3	89
95	Higherâ€order ionospheric effects on the GPS reference frame and velocities. Journal of Geophysical Research, 2010, 115, .	3.3	74
96	Location for direct access to subglacial Lake Ellsworth: An assessment of geophysical data and modeling. Geophysical Research Letters, 2010, 37, .	4.0	45
97	J2: An evaluation of new estimates from GPS, GRACE, and load models compared to SLR. Geophysical Research Letters, 2010, 37, .	4.0	17
98	Satellite gravity gradiometry: Secular gravity field change over polar regions. Journal of Geodynamics, 2010, 49, 247-253.	1.6	4
99	Assessment of Glacier Volume Change Using ASTER-Based Surface Matching of Historical Photography. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 1971-1979.	6.3	31
100	The GPS Contribution to the Error Budget of Surface Elevations Derived From Airborne LIDAR. IEEE Transactions on Geoscience and Remote Sensing, 2009, 47, 874-883.	6.3	14
101	Tidal gravity variations revisited at Vostok Station, Antarctica. Polar Science, 2009, 3, 1-12.	1.2	3
102	Apparent stability of GPS monumentation from shortâ€baseline time series. Journal of Geophysical Research, 2009, 114, .	3.3	70
103	Basal mechanics of ice streams: Insights from the stickâ€slip motion of Whillans Ice Stream, West Antarctica. Journal of Geophysical Research, 2009, 114, .	3.3	110
104	A 4â€decade record of elevation change of the Amery Ice Shelf, East Antarctica. Journal of Geophysical Research, 2009, 114, .	3.3	25
105	Greenland ice sheet motion coupled with daily melting in late summer. Geophysical Research Letters, 2009, 36, .	4.0	181
106	Terminus dynamics at an advancing glacier: Taku Glacier, Alaska. Journal of Glaciology, 2009, 55, 1052-1060.	2.2	24
107	Simultaneous teleseismic and geodetic observations of the stick–slip motion of an Antarctic ice stream. Nature, 2008, 453, 770-774.	27.8	141
108	Subdaily signals in GPS observations and their effect at semiannual and annual periods. Geophysical Research Letters, 2008, 35, .	4.0	67

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109	Antarctic ice mass balance estimates from GRACE: Tidal aliasing effects. Journal of Geophysical Research, 2008, 113, .	3.3	17
110	Seasonal Speedup Along the Western Flank of the Greenland Ice Sheet. Science, 2008, 320, 781-783.	12.6	383
111	Fracture Propagation to the Base of the Greenland Ice Sheet During Supraglacial Lake Drainage. Science, 2008, 320, 778-781.	12.6	497
112	Tidal influence on Rutford Ice Stream, West Antarctica: observations of surface flow and basal processes from closely spaced GPS and passive seismic stations. Journal of Glaciology, 2008, 54, 715-724.	2.2	34
113	A Validation of Ocean Tide Models Around Antarctica Using GPS Measurements. , 2008, , 211-235.		7
114	GPS height time series: Short-period origins of spurious long-period signals. Journal of Geophysical Research, 2007, 112, .	3.3	121
115	Velocity change of the Amery Ice Shelf, East Antarctica, during the period 1968–1999. Journal of Geophysical Research, 2007, 112, .	3.3	24
116	Ice flow modulated by tides at up to annual periods at Rutford Ice Stream, West Antarctica. Geophysical Research Letters, 2007, 34, .	4.0	59
117	A comparison of GPS, VLBI and model estimates of ocean tide loading displacements. Journal of Geodesy, 2007, 81, 359-368.	3.6	38
118	Kinematic and static GPS techniques for estimating tidal displacements with application to Antarctica. Journal of Geodynamics, 2006, 41, 77-86.	1.6	34
119	Choice of optimal averaging radii for temporal GRACE gravity solutions, a comparison with GPS and satellite altimetry. Geophysical Journal International, 2006, 166, 1-11.	2.4	43
120	Validation of ocean tide models around Antarctica using onshore GPS and gravity data. Journal of Geophysical Research, 2005, 110, .	3.3	58
121	Accuracy assessment of ocean tide models around Antarctica. Geophysical Research Letters, 2005, 32, .	4.0	72
122	Continued deceleration of Whillans Ice Stream, West Antarctica. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	93
123	Rigorous GPS data-processing strategies for glaciological applications. Journal of Glaciology, 2004, 50, 601-607.	2.2	57
124	Assessment of the Jason-1 and TOPEX/Poseidon Microwave Radiometer Performance Using GPS from Offshore Sites in the North Sea. Marine Geodesy, 2004, 27, 717-727.	2.0	8
125	Stability of direct GPS estimates of ocean tide loading. Geophysical Research Letters, 2004, 31, .	4.0	41
126	Spurious periodic horizontal signals in sub-daily GPS position estimates. Journal of Geodesy, 2003, 77, 15-21.	3.6	46

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127	Tidal observations on floating ice using a single GPS receiver. Geophysical Research Letters, 2003, 30, .	4.0	53
128	Ice stream D flow speed is strongly modulated by the tide beneath the Ross Ice Shelf. Geophysical Research Letters, 2003, 30, .	4.0	136
129	Tidally Controlled Stick-Slip Discharge of a West Antarctic Ice. Science, 2003, 301, 1087-1089.	12.6	260
130	Tidally driven stick–slip motion in the mouth of Whillans Ice Stream, Antarctica. Annals of Glaciology, 2003, 36, 263-272.	1.4	84
131	Ice-shelf elevation changes due to atmospheric pressure variations. Journal of Glaciology, 2003, 49, 521-526.	2.2	57
132	Redefinition of the Amery Ice Shelf, East Antarctica, grounding zone. Journal of Geophysical Research, 2002, 107, ECV 1-1.	3.3	52
133	Tide-induced lateral movement of Brunt Ice Shelf, Antarctica. Geophysical Research Letters, 2002, 29, 67-1-67-4.	4.0	56
134	Strategies for High Precision Processing of GPS Measurements with Application to the Amery Ice Shelf, East Antarctica. GPS Solutions, 2000, 4, 2-12.	4.3	20
135	Ice velocities of the Lambert Glacier from static GPS observations. Earth, Planets and Space, 2000, 52, 1031-1036.	2.5	35
136	Treatment of horizontal and vertical tidal signals in GPS data: A case study on a floating ice shelf. Earth, Planets and Space, 2000, 52, 1043-1047.	2.5	17
137	Future Earth and the Cryosphere. , 0, , 91-113.		3
138	APPLICATION OF SURFACE MATCHING FOR IMPROVED MEASUREMENTS OF HISTORIC GLACIER VOLUME CHANGE IN THE ANTARCTIC PENINSULA. International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives, 0, XXXIX-B8, 579-584.	0.2	10