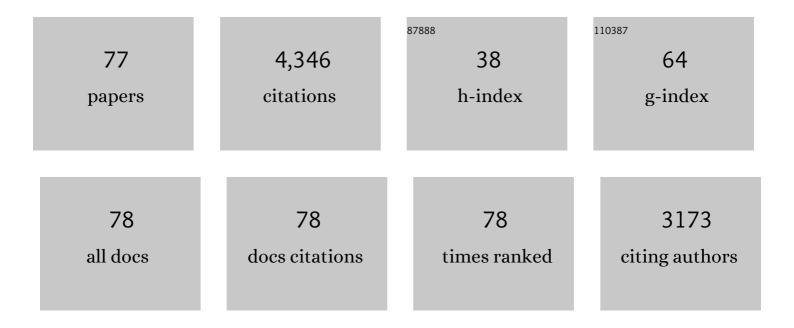
## Robin Bell

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Large subglacial lakes in East Antarctica at the onset of fast-flowing ice streams. Nature, 2007, 445, 904-907.	27.8	224
2	Influence of subglacial geology on the onset of a West Antarctic ice stream from aerogeophysical observations. Nature, 1998, 394, 58-62.	27.8	203
3	East Antarctic rifting triggers uplift of the Gamburtsev Mountains. Nature, 2011, 479, 388-392.	27.8	198
4	Active volcanism beneath the West Antarctic ice sheet and implications for ice-sheet stability. Nature, 1993, 361, 526-529.	27.8	183
5	Widespread Persistent Thickening of the East Antarctic Ice Sheet by Freezing from the Base. Science, 2011, 331, 1592-1595.	12.6	161
6	The role of subglacial water in ice-sheet mass balance. Nature Geoscience, 2008, 1, 297-304.	12.9	152
7	Widespread movement of meltwater onto and across Antarctic ice shelves. Nature, 2017, 544, 349-352.	27.8	148
8	Origin and fate of Lake Vostok water frozen to the base of the East Antarctic ice sheet. Nature, 2002, 416, 307-310.	27.8	128
9	Antarctic ice shelf potentially stabilized by export of meltwater in surface river. Nature, 2017, 544, 344-348.	27.8	124
10	Ice cover, landscape setting, and geological framework of Lake Vostok, East Antarctica. Earth and Planetary Science Letters, 2003, 205, 195-210.	4.4	123
11	Sub-ice geology inland of the Transantarctic Mountains in light of new aerogeophysical data. Earth and Planetary Science Letters, 2004, 220, 391-408.	4.4	115
12	Antarctic surface hydrology and impacts on ice-sheet mass balance. Nature Climate Change, 2018, 8, 1044-1052.	18.8	112
13	Subglacial sediments: A regional geological template for ice flow in West Antarctica. Geophysical Research Letters, 2001, 28, 3493-3496.	4.0	96
14	Crustal control of ridge segmentation inferred from observations of the Reykjanes Ridge. Nature, 1992, 357, 583-586.	27.8	94
15	Ross Ice Shelf response to climate driven by the tectonic imprint on seafloor bathymetry. Nature Geoscience, 2019, 12, 441-449.	12.9	88
16	Influence of persistent wind scour on the surface mass balance of Antarctica. Nature Geoscience, 2013, 6, 367-371.	12.9	87
17	Patterns of late Cenozoic volcanic and tectonic activity in the West Antarctic rift system revealed by aeromagnetic surveys. Tectonics, 1996, 15, 660-676.	2.8	82
18	Progressive unpinning of Thwaites Glacier from newly identified offshore ridge: Constraints from aerogravity. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	82

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19	CASERTZ aeromagnetic data reveal late Cenozoic flood basalts(?) in the West Antarctic rift system. Geology, 1994, 22, 527.	4.4	78
20	New Magnetic Anomaly Map of the Antarctic. Geophysical Research Letters, 2018, 45, 6437-6449.	4.0	78
21	Estimating the depth and shape of subglacial Lake Vostok's water cavity from aerogravity data. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	76
22	Early East Antarctic Ice Sheet growth recorded in the landscape of the Gamburtsev Subglacial Mountains. Earth and Planetary Science Letters, 2013, 375, 1-12.	4.4	75
23	Geophysical models for the tectonic framework of the Lake Vostok region, East Antarctica. Earth and Planetary Science Letters, 2003, 216, 663-677.	4.4	74
24	Recharge of a subglacial lake by surface meltwater in northeast Greenland. Nature, 2015, 518, 223-227.	27.8	74
25	Gravity gradiometry resurfaces. The Leading Edge, 1997, 16, 55-59.	0.7	70
26	Antarctic crustal thickness from satellite gravity: Implications for the Transantarctic and Gamburtsev Subglacial Mountains. Earth and Planetary Science Letters, 2009, 288, 194-203.	4.4	69
27	Gravity anomalies of sedimentary basins and their mechanical implications: Application to the Ross Sea basins, West Antarctica. Earth and Planetary Science Letters, 2005, 235, 577-596.	4.4	68
28	Deformation, warming and softening of Greenland's ice by refreezing meltwater. Nature Geoscience, 2014, 7, 497-502.	12.9	64
29	Traveling slippery patches produce thicknessâ€scale folds in ice sheets. Geophysical Research Letters, 2014, 41, 8895-8901.	4.0	61
30	Evaluation of the BGM-3 sea gravity meter system onboard R/V Conrad. Geophysics, 1986, 51, 1480-1493.	2.6	57
31	Comparison of AIRGrav and GT-1A airborne gravimeters for research applications. Geophysics, 2008, 73, I51-I61.	2.6	57
32	Tectonically controlled subglacial lakes on the flanks of the Gamburtsev Subglacial Mountains, East Antarctica. Geophysical Research Letters, 2006, 33, .	4.0	52
33	Extensive winter subglacial water storage beneath the Greenland Ice Sheet. Geophysical Research Letters, 2016, 43, 12,484.	4.0	52
34	Airborne gravimetry: An investigation of filtering. Geophysics, 1999, 64, 61-69.	2.6	50
35	The Scientific Legacy of NASA's Operation IceBridge. Reviews of Geophysics, 2021, 59, e2020RG000712.	23.0	49
36	Process-related classification of acoustic data from the Hudson River Estuary. Marine Geology, 2004, 209, 131-145.	2.1	47

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37	Identification and control of subglacial water networks under Dome A, Antarctica. Journal of Geophysical Research F: Earth Surface, 2013, 118, 140-154.	2.8	46
38	Bathymetric control of tidewater glacier mass loss in northwest Greenland. Earth and Planetary Science Letters, 2014, 401, 40-46.	4.4	41
39	lce flow field over Lake Vostok, East Antarctica inferred by structure tracking. Earth and Planetary Science Letters, 2004, 227, 249-261.	4.4	39
40	Freezing of ridges and water networks preserves the Gamburtsev Subglacial Mountains for millions of years. Geophysical Research Letters, 2014, 41, 8114-8122.	4.0	38
41	An International Plan for Antarctic Subglacial Lake Exploration. Polar Geography, 2003, 27, 69-83.	1.9	36
42	Complex Basal Thermal Transition Near the Onset of Petermann Glacier, Greenland. Journal of Geophysical Research F: Earth Surface, 2018, 123, 985-995.	2.8	35
43	Rerouting of subglacial water flow between neighboring glaciers in West Greenland. Journal of Geophysical Research F: Earth Surface, 2016, 121, 925-938.	2.8	32
44	History, mass loss, structure, and dynamic behavior of the Antarctic Ice Sheet. Science, 2020, 367, 1321-1325.	12.6	31
45	Early Mesozoic rift basins of eastern North America and their gravity anomalies: The role of detachments during extension. Tectonics, 1988, 7, 447-462.	2.8	30
46	Aeromagnetic evidence for a volcanic caldera(?) Complex beneath the divide of the West Antarctic Ice Sheet. Geophysical Research Letters, 1998, 25, 4385-4388.	4.0	30
47	Influx of meltwater to subglacial Lake Concordia, East Antarctica. Journal of Glaciology, 2005, 51, 96-104.	2.2	30
48	Inversion of IceBridge gravity data for continental shelf bathymetry beneath the Larsen Ice Shelf, Antarctica. Journal of Glaciology, 2012, 58, 540-552.	2.2	30
49	Active lakes of Recovery Ice Stream, East Antarctica: a bedrock-controlled subglacial hydrological system. Journal of Claciology, 2014, 60, 1015-1030.	2.2	30
50	Evolution of the Seasonal Surface Mixed Layer of the Ross Sea, Antarctica, Observed With Autonomous Profiling Floats. Journal of Geophysical Research: Oceans, 2019, 124, 4934-4953.	2.6	29
51	Shallow-source aeromagnetic anomalies observed over the West Antarctic Ice Sheet compared with coincident bed topography from radar ice sounding—new evidence for glacial "removal―of subglacially erupted late Cenozoic rift-related volcanic edifices. Global and Planetary Change, 2004, 42, 177-193.	3.5	28
52	Using geophysical information to define benthic habitats in a large river. Freshwater Biology, 2006, 51, 25-38.	2.4	24
53	Bathymetry in Petermann fjord from Operation IceBridge aerogravity. Earth and Planetary Science Letters, 2015, 422, 58-66.	4.4	24
54	Environmental change and oyster colonization within the Hudson River estuary linked to Holocene climate. Geo-Marine Letters, 2004, 24, 212-224.	1.1	23

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55	Gravity Gradiometry. Scientific American, 1998, 278, 74-79.	1.0	22
56	Anomalous accumulation rates in the Vostok ice-core resulting from ice flow over Lake Vostok. Geophysical Research Letters, 2004, 31, .	4.0	21
57	The rise and fall of early oil field technology: The torsion balance gradiometer. The Leading Edge, 1998, 17, 81-83.	0.7	19
58	Multidecadal Basal Melt Rates and Structure of the Ross Ice Shelf, Antarctica, Using Airborne Ice Penetrating Radar. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005241.	2.8	19
59	Harassment in science is real. Science, 2017, 358, 1223-1223.	12.6	18
60	Bathymetric and oceanic controls on Abbot Ice Shelf thickness and stability. Cryosphere, 2014, 8, 877-889.	3.9	16
61	Spatial variations in a condensed interval between estuarine and open-marine settings: Holocene Hudson River estuary and adjacent continental shelf. Geology, 2004, 32, 169.	4.4	14
62	Airborne gravity measurement over sea-ice: The Western Weddell Sea. Geophysical Research Letters, 1990, 17, 1941-1944.	4.0	13
63	Estuarine processes and their stratigraphic record: paleosalinity and sedimentation changes in the Hudson Estuary (North America). Marine Geology, 2004, 209, 113-129.	2.1	13
64	Resolving bathymetry from airborne gravity along Greenland fjords. Journal of Geophysical Research: Solid Earth, 2015, 120, 8516-8533.	3.4	13
65	Airborne gravimetry from a small twin engine aircraft over the Long Island Sound. Geophysics, 1991, 56, 1486-1493.	2.6	12
66	Subglacial volcanic features beneath the West Antarctic Ice Sheet interpreted from aeromagnetic and radar ice sounding. Geological Society Special Publication, 2002, 202, 337-355.	1.3	7
67	Detailed Bathymetry of the Continental Shelf Beneath the Getz Ice Shelf, West Antarctica. Journal of Geophysical Research F: Earth Surface, 2020, 125, e2019JF005493.	2.8	6
68	Inside the ice shelf: using augmented reality to visualise 3D lidar and radar data of Antarctica. Photogrammetric Record, 2019, 34, 346-364.	0.4	5
69	Seafloor Depth of George VI Sound, Antarctic Peninsula, From Inversion of Aerogravity Data. Geophysical Research Letters, 2020, 47, e2020GL088654.	4.0	5
70	Abbot Ice Shelf, structure of the Amundsen Sea continental margin and the southern boundary of the Bellingshausen Plate seaward of West Antarctica. Geochemistry, Geophysics, Geosystems, 2015, 16, 1421-1438.	2.5	4
71	Sea Ice Freeboard in the Ross Sea from Airborne Altimetry IcePod 2016–2017 and a Comparison with IceBridge 2013 and ICESat 2003–2008. Remote Sensing, 2020, 12, 2226.	4.0	3
72	Crustal structure of the Gamburtsev Province, East Antarctica, from airborne geophysics. , 2017, , .		2

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73	Development of ice-shelf estuaries promotes fractures and calving. Nature Geoscience, 2021, 14, 899-905.	12.9	2
74	Determination of Airborne Nicotine by Automatic Two-Stage Thermal Desorption Gas Chromatography. International Journal of Environmental Analytical Chemistry, 1988, 33, 219-232.	3.3	0
75	Advances in aerogeophysics and precise positioning: Gravity, topography, and high resolution applications. Reviews of Geophysics, 1995, 33, 361.	23.0	Ο
76	Changes on the ice. Nature, 2016, 530, 507-507.	27.8	0
77	Reply by the authors to L. LaCoste. Geophysics, 1987, 52, 697-697.	2.6	0