Robin Bell

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	The Scientific Legacy of NASA's Operation IceBridge. Reviews of Geophysics, 2021, 59, e2020RG000712.	23.0	49
2	Development of ice-shelf estuaries promotes fractures and calving. Nature Geoscience, 2021, 14, 899-905.	12.9	2
3	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
4	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
5	Seafloor Depth of George VI Sound, Antarctic Peninsula, From Inversion of Aerogravity Data. Geophysical Research Letters, 2020, 47, e2020GL088654.	4.0	5
6	History, mass loss, structure, and dynamic behavior of the Antarctic Ice Sheet. Science, 2020, 367, 1321-1325.	12.6	31
7	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
8	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
9	Ross Ice Shelf response to climate driven by the tectonic imprint on seafloor bathymetry. Nature Geoscience, 2019, 12, 441-449.	12.9	88
10	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
11	Antarctic surface hydrology and impacts on ice-sheet mass balance. Nature Climate Change, 2018, 8, 1044-1052.	18.8	112
12	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
13	New Magnetic Anomaly Map of the Antarctic. Geophysical Research Letters, 2018, 45, 6437-6449.	4.0	78
14	Antarctic ice shelf potentially stabilized by export of meltwater in surface river. Nature, 2017, 544, 344-348.	27.8	124
15	Widespread movement of meltwater onto and across Antarctic ice shelves. Nature, 2017, 544, 349-352.	27.8	148
16	Crustal structure of the Gamburtsev Province, East Antarctica, from airborne geophysics. , 2017, , .		2
17	Harassment in science is real. Science, 2017, 358, 1223-1223.	12.6	18
18	Changes on the ice. Nature, 2016, 530, 507-507.	27.8	0

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19	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
20	Extensive winter subglacial water storage beneath the Greenland Ice Sheet. Geophysical Research Letters, 2016, 43, 12,484.	4.0	52
21	Resolving bathymetry from airborne gravity along Greenland fjords. Journal of Geophysical Research: Solid Earth, 2015, 120, 8516-8533.	3.4	13
22	Recharge of a subglacial lake by surface meltwater in northeast Greenland. Nature, 2015, 518, 223-227.	27.8	74
23	Bathymetry in Petermann fjord from Operation IceBridge aerogravity. Earth and Planetary Science Letters, 2015, 422, 58-66.	4.4	24
24	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
25	Bathymetric and oceanic controls on Abbot Ice Shelf thickness and stability. Cryosphere, 2014, 8, 877-889.	3.9	16
26	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
27	Bathymetric control of tidewater glacier mass loss in northwest Greenland. Earth and Planetary Science Letters, 2014, 401, 40-46.	4.4	41
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	Active lakes of Recovery Ice Stream, East Antarctica: a bedrock-controlled subglacial hydrological system. Journal of Glaciology, 2014, 60, 1015-1030.	2.2	30
31	Influence of persistent wind scour on the surface mass balance of Antarctica. Nature Geoscience, 2013, 6, 367-371.	12.9	87
32	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
33	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
34	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
35	Widespread Persistent Thickening of the East Antarctic Ice Sheet by Freezing from the Base. Science, 2011, 331, 1592-1595.	12.6	161
36	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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37	East Antarctic rifting triggers uplift of the Gamburtsev Mountains. Nature, 2011, 479, 388-392.	27.8	198
38	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
39	The role of subglacial water in ice-sheet mass balance. Nature Geoscience, 2008, 1, 297-304.	12.9	152
40	Comparison of AIRGrav and GT-1A airborne gravimeters for research applications. Geophysics, 2008, 73, I51-I61.	2.6	57
41	Large subglacial lakes in East Antarctica at the onset of fast-flowing ice streams. Nature, 2007, 445, 904-907.	27.8	224
42	Tectonically controlled subglacial lakes on the flanks of the Gamburtsev Subglacial Mountains, East Antarctica. Geophysical Research Letters, 2006, 33, .	4.0	52
43	Using geophysical information to define benthic habitats in a large river. Freshwater Biology, 2006, 51, 25-38.	2.4	24
44	Influx of meltwater to subglacial Lake Concordia, East Antarctica. Journal of Glaciology, 2005, 51, 96-104.	2.2	30
45	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
46	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
47	Environmental change and oyster colonization within the Hudson River estuary linked to Holocene climate. Geo-Marine Letters, 2004, 24, 212-224.	1.1	23
48	Process-related classification of acoustic data from the Hudson River Estuary. Marine Geology, 2004, 209, 131-145.	2.1	47
49	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
50	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
51	Anomalous accumulation rates in the Vostok ice-core resulting from ice flow over Lake Vostok. Geophysical Research Letters, 2004, 31, .	4.0	21
52	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, 42.272.192	3.5	28
53	Ice flow field over Lake Vostok, East Antarctica inferred by structure tracking. Earth and Planetary Science Letters, 2004, 227, 249-261.	4.4	39
54	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

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55	lce cover, landscape setting, and geological framework of Lake Vostok, East Antarctica. Earth and Planetary Science Letters, 2003, 205, 195-210.	4.4	123
56	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
57	An International Plan for Antarctic Subglacial Lake Exploration. Polar Geography, 2003, 27, 69-83.	1.9	36
58	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
59	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
60	Subglacial sediments: A regional geological template for ice flow in West Antarctica. Geophysical Research Letters, 2001, 28, 3493-3496.	4.0	96
61	Airborne gravimetry: An investigation of filtering. Geophysics, 1999, 64, 61-69.	2.6	50
62	Influence of subglacial geology on the onset of a West Antarctic ice stream from aerogeophysical observations. Nature, 1998, 394, 58-62.	27.8	203
63	Gravity Gradiometry. Scientific American, 1998, 278, 74-79.	1.0	22
64	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
65	The rise and fall of early oil field technology: The torsion balance gradiometer. The Leading Edge, 1998, 17, 81-83.	0.7	19
66	Gravity gradiometry resurfaces. The Leading Edge, 1997, 16, 55-59.	0.7	70
67	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
68	Advances in aerogeophysics and precise positioning: Gravity, topography, and high resolution applications. Reviews of Geophysics, 1995, 33, 361.	23.0	0
69	CASERTZ aeromagnetic data reveal late Cenozoic flood basalts(?) in the West Antarctic rift system. Geology, 1994, 22, 527.	4.4	78
70	Active volcanism beneath the West Antarctic ice sheet and implications for ice-sheet stability. Nature, 1993, 361, 526-529.	27.8	183
71	Crustal control of ridge segmentation inferred from observations of the Reykjanes Ridge. Nature, 1992, 357, 583-586.	27.8	94
72	Airborne gravimetry from a small twin engine aircraft over the Long Island Sound. Geophysics, 1991, 56, 1486-1493.	2.6	12

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73	Airborne gravity measurement over sea-ice: The Western Weddell Sea. Geophysical Research Letters, 1990, 17, 1941-1944.	4.0	13
74	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
75	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
76	Reply by the authors to L. LaCoste. Geophysics, 1987, 52, 697-697.	2.6	0
77	Evaluation of the BGM-3 sea gravity meter system onboard R/V Conrad. Geophysics, 1986, 51, 1480-1493.	2.6	57