

# Ted A Scambos

## List of Publications by Year in descending order

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Version: 2024-02-01

59  
papers

7,890  
citations

109321

35  
h-index

138484

58  
g-index

95  
all docs

95  
docs citations

95  
times ranked

5691  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Reconciled Estimate of Ice-Sheet Mass Balance. <i>Science</i> , 2012, 338, 1183-1189.	12.6	1,246
2	Glacier acceleration and thinning after ice shelf collapse in the Larsen B embayment, Antarctica. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	689
3	The link between climate warming and break-up of ice shelves in the Antarctic Peninsula. <i>Journal of Glaciology</i> , 2000, 46, 516-530.	2.2	581
4	Greenland flow variability from ice-sheet-wide velocity mapping. <i>Journal of Glaciology</i> , 2010, 56, 415-430.	2.2	511
5	Rapid Changes in Ice Discharge from Greenland Outlet Glaciers. <i>Science</i> , 2007, 315, 1559-1561.	12.6	420
6	Antarctic climate change and the environment: an update. <i>Polar Record</i> , 2014, 50, 237-259.	0.8	411
7	An Active Subglacial Water System in West Antarctica Mapped from Space. <i>Science</i> , 2007, 315, 1544-1548.	12.6	406
8	Increased West Antarctic and unchanged East Antarctic ice discharge over the last 7 years. <i>Cryosphere</i> , 2018, 12, 521-547.	3.9	283
9	Satellite-Image-Derived Velocity Field of an Antarctic Ice Stream. <i>Science</i> , 1991, 252, 242-246.	12.6	251
10	Synchronous retreat and acceleration of southeast Greenland outlet glaciers 2000â€“06: ice dynamics and coupling to climate. <i>Journal of Glaciology</i> , 2008, 54, 646-660.	2.2	228
11	Ice shelf disintegration by plate bending and hydro-fracture: Satellite observations and model results of the 2008 Wilkins ice shelf break-ups. <i>Earth and Planetary Science Letters</i> , 2009, 280, 51-60.	4.4	226
12	Rapid large-area mapping of ice flow using Landsat 8. <i>Remote Sensing of Environment</i> , 2016, 185, 84-94.	11.0	223
13	Climate-Induced Ice Shelf Disintegration in the Antarctic Peninsula. <i>Antarctic Research Series</i> , 0, , 79-92.	0.2	173
14	Connected subglacial lake activity on lower Mercer and Whillans Ice Streams, West Antarctica, 2003â€“2008. <i>Journal of Glaciology</i> , 2009, 55, 303-315.	2.2	147
15	Switch of flow direction in an Antarctic ice stream. <i>Nature</i> , 2002, 419, 465-467.	27.8	135
16	Rapid bedrock uplift in the Antarctic Peninsula explained by viscoelastic response to recent ice unloading. <i>Earth and Planetary Science Letters</i> , 2014, 397, 32-41.	4.4	122
17	Impacts of warm water on Antarctic ice shelf stability through basal channel formation. <i>Nature Geoscience</i> , 2016, 9, 290-293.	12.9	114
18	Antarctic ice rises and rumples: Their properties and significance for ice-sheet dynamics and evolution. <i>Earth-Science Reviews</i> , 2015, 150, 724-745.	9.1	103

#	ARTICLE	IF	CITATIONS
19	Mapping the grounding zone of the Ross Ice Shelf, Antarctica, using ICESat laser altimetry. <i>Annals of Glaciology</i> , 2010, 51, 71-79.	1.4	100
20	Snow megadune fields on the East Antarctic Plateau: Extreme atmosphere-ice interaction. <i>Geophysical Research Letters</i> , 2000, 27, 3719-3722.	4.0	93
21	Mass loss of Larsen B tributary glaciers (Antarctic Peninsula) unabated since 2002. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	92
22	The modelled surface mass balance of the Antarctic Peninsula at 5.5km horizontal resolution. <i>Cryosphere</i> , 2016, 10, 271-285.	3.9	89
23	Ultralow Surface Temperatures in East Antarctica From Satellite Thermal Infrared Mapping: The Coldest Places on Earth. <i>Geophysical Research Letters</i> , 2018, 45, 6124-6133.	4.0	88
24	Deep air convection in the firn at a zero-accumulation site, central Antarctica. <i>Earth and Planetary Science Letters</i> , 2010, 293, 359-367.	4.4	82
25	Estimating supraglacial lake depth in West Greenland using Landsat 8 and comparison with other multispectral methods. <i>Cryosphere</i> , 2016, 10, 15-27.	3.9	73
26	The triggering of subglacial lake drainage during rapid glacier drawdown: Crane Glacier, Antarctic Peninsula. <i>Annals of Glaciology</i> , 2011, 52, 74-82.	1.4	63
27	Calving and ice-shelf break-up processes investigated by proxy: Antarctic tabular iceberg evolution during northward drift. <i>Journal of Glaciology</i> , 2008, 54, 579-591.	2.2	60
28	2001–2009 elevation and mass losses in the Larsen A and B embayments, Antarctic Peninsula. <i>Journal of Glaciology</i> , 2011, 57, 737-754.	2.2	57
29	Detailed ice loss pattern in the northern Antarctic Peninsula: widespread decline driven by ice front retreats. <i>Cryosphere</i> , 2014, 8, 2135-2145.	3.9	55
30	Extreme firn metamorphism: impact of decades of vapor transport on near-surface firn at a low-accumulation glazed site on the East Antarctic plateau. <i>Annals of Glaciology</i> , 2004, 39, 73-78.	1.4	52
31	Sequential stagnation of Kamb Ice Stream, West Antarctica. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	51
32	Extracting recent short-term glacier velocity evolution over southern Alaska and the Yukon from a large collection of Landsat data. <i>Cryosphere</i> , 2019, 13, 795-814.	3.9	47
33	Derivation and validation of supraglacial lake volumes on the Greenland Ice Sheet from high-resolution satellite imagery. <i>Remote Sensing of Environment</i> , 2016, 183, 294-303.	11.0	46
34	Boundary condition of grounding lines prior to collapse, Larsen-B Ice Shelf, Antarctica. <i>Science</i> , 2014, 345, 1354-1358.	12.6	45
35	Borehole temperatures reveal details of 20th century warming at Bruce Plateau, Antarctic Peninsula. <i>Cryosphere</i> , 2012, 6, 675-686.	3.9	44
36	Continent-wide estimates of Antarctic strain rates from Landsat 8-derived velocity grids. <i>Journal of Glaciology</i> , 2018, 64, 321-332.	2.2	40

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37	The Expanding Footprint of Rapid Arctic Change. <i>Earth's Future</i> , 2019, 7, 212-218.	6.3	38
38	Configuration of the Northern Antarctic Peninsula Ice Sheet at LGM based on a new synthesis of seabed imagery. <i>Cryosphere</i> , 2015, 9, 613-629.	3.9	37
39	Troughs developed in ice-stream shear margins precondition ice shelves for ocean-driven breakup. <i>Science Advances</i> , 2019, 5, eaax2215.	10.3	37
40	Validation of Avhrr and Modis ice Surface temperature products using in Situ radiometers. <i>Annals of Glaciology</i> , 2006, 44, 345-351.	1.4	35
41	Ice-stream-related patterns of ice flow in the interior of northeast Greenland. <i>Journal of Geophysical Research</i> , 2001, 106, 34035-34045.	3.3	34
42	Recent surface temperature trends in the interior of East Antarctica from borehole firn temperature measurements and geophysical inverse methods. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	27
43	Kinetic fractionation of gases by deep air convection in polar firn. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 11141-11155.	4.9	23
44	Spectral characterization, radiative forcing and pigment content of coastal Antarctic snow algae: approaches to spectrally discriminate red and green communities and their impact on snowmelt. <i>Cryosphere</i> , 2021, 15, 133-148.	3.9	22
45	Two decades of dynamic change and progressive destabilization on the Thwaites Eastern Ice Shelf. <i>Cryosphere</i> , 2021, 15, 5187-5203.	3.9	22
46	Weakening of the pinning point buttressing Thwaites Glacier, West Antarctica. <i>Cryosphere</i> , 2022, 16, 397-417.	3.9	21
47	Hydrologic Properties of a Highly Permeable Firn Aquifer in the Wilkins Ice Shelf, Antarctica. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089552.	4.0	20
48	Accelerated mass loss from Greenland ice sheet: Links to atmospheric circulation in the North Atlantic. <i>Global and Planetary Change</i> , 2015, 128, 61-71.	3.5	19
49	Warming reaches the South Pole. <i>Nature Climate Change</i> , 2020, 10, 710-711.	18.8	18
50	Brief communication: Mapping Greenland's perennial firn aquifers using enhanced-resolution L-band brightness temperature image time series. <i>Cryosphere</i> , 2020, 14, 2809-2817.	3.9	17
51	Flow variability and ongoing margin shifts on Bindschadler and MacAyeal Ice Streams, West Antarctica. <i>Journal of Geophysical Research F: Earth Surface</i> , 2016, 121, 283-293.	2.8	12
52	Active subglacial lakes and channelized water flow beneath the Kamb Ice Stream. <i>Cryosphere</i> , 2016, 10, 2971-2980.	3.9	9
53	The changing extent of the glaciers along the western Ross Sea, Antarctica. <i>Geology</i> , 2017, 45, 927-930.	4.4	9
54	Consequences of the 2019 Greenland Ice Sheet Melt Episode on Albedo. <i>Remote Sensing</i> , 2021, 13, 227.	4.0	7

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55	Briefing: Antarctic ice sheet mass loss and future sea-level rise. Proceedings of the Institution of Civil Engineers: Forensic Engineering, 2015, 168, 81-84.	0.5	5
56	Ending a Sea of Confusion: Insights and Opportunities in Sea-Level Change Communication. Environment, 2020, 62, 4-15.	1.4	4
57	Ice loss processes in the Seal Nunataks ice shelf region from satellite altimetry and imagery. Annals of Glaciology, 2016, 57, 94-104.	1.4	3
58	More than Skin Deep: Sea Surface Temperature as a Means of Inferring Atlantic Water Variability on the Southeast Greenland Continental Shelf Near Helheim Glacier. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016509.	2.6	3
59	Characteristics, recent evolution, and ongoing retreat of Hunt Fjord Ice Shelf, northern Greenland. Journal of Glaciology, 2023, 69, 57-70.	2.2	2