

# Kelly Brunt

## List of Publications by Year in descending order

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Version: 2024-02-01

37  
papers

2,619  
citations

236925

25  
h-index

330143

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44  
all docs

44  
docs citations

44  
times ranked

1847  
citing authors

#	ARTICLE	IF	CITATIONS
1	Accelerating Ice Loss From Peripheral Glaciers in North Greenland. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	14
2	ICESat-2 Meltwater Depth Estimates: Application to Surface Melt on Amery Ice Shelf, East Antarctica. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090550.	4.0	30
3	Comparisons of Satellite and Airborne Altimetry With Ground-Based Data From the Interior of the Antarctic Ice Sheet. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090572.	4.0	26
4	Projected Seismic Activity at the Tiger Stripe Fractures on Enceladus, Saturn, From an Analog Study of Tidally Modulated Icequakes Within the Ross Ice Shelf, Antarctica. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006862.	3.6	7
5	Passive Ground-Based Optical Techniques for Monitoring the On-Orbit ICESat-2 Altimeter Geolocation and Footprint Diameter. <i>Earth and Space Science</i> , 2021, 8, e2020EA001414.	2.6	32
6	Early ICESat-2 on-orbit Geolocation Validation Using Ground-Based Corner Cube Retro-Reflectors. <i>Remote Sensing</i> , 2020, 12, 3653.	4.0	71
7	Greenland Ice Sheet Elevation Change: Direct Observation of Process and Attribution at Summit. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088864.	4.0	7
8	Pervasive ice sheet mass loss reflects competing ocean and atmosphere processes. <i>Science</i> , 2020, 368, 1239-1242.	12.6	261
9	Temporal and spatial variability in surface roughness and accumulation rate around 88°S from repeat airborne geophysical surveys. <i>Cryosphere</i> , 2020, 14, 3287-3308.	3.9	6
10	Using ICESat-2 and Operation IceBridge altimetry for supraglacial lake depth retrievals. <i>Cryosphere</i> , 2020, 14, 4253-4263.	3.9	18
11	A Terrestrial Validation of ICESat Elevation Measurements and Implications for Global Reanalyses. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 6946-6959.	6.3	17
12	Land ice height-retrieval algorithm for NASA's ICESat-2 photon-counting laser altimeter. <i>Remote Sensing of Environment</i> , 2019, 233, 111352.	11.0	113
13	The Ice, Cloud, and Land Elevation Satellite - 2 mission: A global geolocated photon product derived from the Advanced Topographic Laser Altimeter System. <i>Remote Sensing of Environment</i> , 2019, 233, 111325.	11.0	294
14	Assessment of altimetry using ground-based GPS data from the 88S Traverse, Antarctica, in support of ICESat-2. <i>Cryosphere</i> , 2019, 13, 579-590.	3.9	33
15	Radiometric calibration of a non-imaging airborne spectrometer to measure the Greenland ice sheet surface. <i>Atmospheric Measurement Techniques</i> , 2019, 12, 1913-1933.	3.1	1
16	Assessment of ICESat-2 Ice Sheet Surface Heights, Based on Comparisons Over the Interior of the Antarctic Ice Sheet. <i>Geophysical Research Letters</i> , 2019, 46, 13072-13078.	4.0	102
17	New Earth Orbiter Provides a Sharper Look at a Changing Planet. <i>Eos</i> , 2019, 100, .	0.1	7
18	Performance Analysis of Airborne Photon- Counting Lidar Data in Preparation for the ICESat-2 Mission. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2018, 56, 2911-2918.	6.3	61

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19	The Ice, Cloud, and land Elevation Satellite-2 (ICESat-2): Science requirements, concept, and implementation. <i>Remote Sensing of Environment</i> , 2017, 190, 260-273.	11.0	600
20	ICESAT/GLAS Altimetry Measurements: Received Signal Dynamic Range and Saturation Correction. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 5440-5454.	6.3	22
21	Assessment of NASA airborne laser altimetry data using ground-based GPS data near Summit Station, Greenland. <i>Cryosphere</i> , 2017, 11, 681-692.	3.9	34
22	MABEL photon-counting laser altimetry data in Alaska for ICESat-2 simulations and development. <i>Cryosphere</i> , 2016, 10, 1707-1719.	3.9	29
23	Inland and Near-Shore Water Profiles Derived from the High-Altitude Multiple Altimeter Beam Experimental Lidar (MABEL). <i>Journal of Coastal Research</i> , 2016, 76, 44-55.	0.3	54
24	Sea-ice freeboard retrieval using digital photon-counting laser altimetry. <i>Annals of Glaciology</i> , 2015, 56, 167-174.	1.4	20
25	A range correction for ICESat and its potential impact on ice-sheet mass balance studies. <i>Cryosphere</i> , 2014, 8, 345-357.	3.9	76
26	Profiling Sea Ice with a Multiple Altimeter Beam Experimental Lidar (MABEL). <i>Journal of Atmospheric and Oceanic Technology</i> , 2014, 31, 1151-1168.	1.3	37
27	Ice-shelf flexure and tidal forcing of Bindschadler Ice Stream, West Antarctica. <i>Earth and Planetary Science Letters</i> , 2014, 395, 184-193.	4.4	8
28	Determination of Local Slope on the Greenland Ice Sheet Using a Multibeam Photon-Counting Lidar in Preparation for the ICESat-2 Mission. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2014, 11, 935-939.	3.1	34
29	Tidal modulation of ice-shelf flow: a viscous model of the Ross Ice Shelf. <i>Journal of Glaciology</i> , 2014, 60, 500-508.	2.2	36
30	Antarctic ice-shelf calving triggered by the Honshu (Japan) earthquake and tsunami, March 2011. <i>Journal of Glaciology</i> , 2011, 57, 785-788.	2.2	61
31	Analysis of ice plains of the Filchner-Ronne Ice Shelf, Antarctica, using ICESat laser altimetry. <i>Journal of Glaciology</i> , 2011, 57, 965-975.	2.2	46
32	Flow of the Ross Ice Shelf, Antarctica, is modulated by the ocean tide. <i>Journal of Glaciology</i> , 2010, 56, 157-161.	2.2	34
33	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
34	Mapping the grounding zone of the Amery Ice Shelf, East Antarctica using InSAR, MODIS and ICESat. <i>Antarctic Science</i> , 2009, 21, 515-532.	0.9	124
35	Tabular iceberg collisions within the coastal regime. <i>Journal of Glaciology</i> , 2008, 54, 371-386.	2.2	54
36	Transoceanic wave propagation links iceberg calving margins of Antarctica with storms in tropics and Northern Hemisphere. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	101

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37	Observations of unusual fast-ice conditions in the southwest Ross Sea, Antarctica: preliminary analysis of iceberg and storminess effects. <i>Annals of Glaciology</i> , 2006, 44, 183-187.	1.4	26