Kelly Brunt

List of Publications by Year
in descending order

37 papers	2,619 citations	236925 25 h-index	330143 37 g-index
44 all docs	44 docs citations	44 times ranked	1847 citing authors

#	Article	IF	Citations
1	The Ice, Cloud, and land Elevation Satellite-2 (ICESat-2): Science requirements, concept, and implementation. Remote Sensing of Environment, 2017, 190, 260-273.	11.0	600
2	The Ice, Cloud, and Land Elevation Satellite â€“ 2 mission: A global geolocated photon product derived from the Advanced Topographic Laser Altimeter System. Remote Sensing of Environment, 2019, 233, 111325.	11.0	294
3	Pervasive ice sheet mass loss reflects competing ocean and atmosphere processes. Science, 2020, 368, 1239-1242.	12.6	261
4	Mapping the grounding zone of the Amery Ice Shelf, East Antarctica using InSAR, MODIS and ICESat. Antarctic Science, 2009, 21, 515-532.	0.9	124
5	Land ice height-retrieval algorithm for NASA's ICESat-2 photon-counting laser altimeter. Remote Sensing of Environment, 2019, 233, 111352.	11.0	113
6	Assessment of ICESatâ€2 Ice Sheet Surface Heights, Based on Comparisons Over the Interior of the Antarctic Ice Sheet. Geophysical Research Letters, 2019, 46, 13072-13078.	4.0	102
7	Transoceanic wave propagation links iceberg calving margins of Antarctica with storms in tropics and Northern Hemisphere. Geophysical Research Letters, 2006, 33, .	4.0	101
8	Mapping the grounding zone of the Ross Ice Shelf, Antarctica, using ICESat laser altimetry. Annals of Glaciology, 2010, 51, 71-79.	1.4	100
9	A range correction for ICESat and its potential impact on ice-sheet mass balance studies. Cryosphere, 2014, 8, 345-357.	3.9	76
10	Early ICESat-2 on-orbit Geolocation Validation Using Ground-Based Corner Cube Retro-Reflectors. Remote Sensing, 2020, 12, 3653.	4.0	71
11	Antarctic ice-shelf calving triggered by the Honshu (Japan) earthquake and tsunami, March 2011. Journal of Glaciology, 2011, 57, 785-788.	2.2	61
12	Performance Analysis of Airborne Photon- Counting Lidar Data in Preparation for the ICESat-2 Mission. IEEE Transactions on Geoscience and Remote Sensing, 2018, 56, 2911-2918.	6.3	61
13	Tabular iceberg collisions within the coastal regime. Journal of Glaciology, 2008, 54, 371-386.	2.2	54
14	Inland and Near-Shore Water Profiles Derived from the High-Altitude Multiple Altimeter Beam Experimental Lidar (MABEL). Journal of Coastal Research, 2016, 76, 44-55.	0.3	54
15	Analysis of ice plains of the Filchnerâ€“Ronne Ice Shelf, Antarctica, using ICESat laser altimetry. Journal of Glaciology, 2011, 57, 965-975.	2.2	46
16	Profiling Sea Ice with a Multiple Altimeter Beam Experimental Lidar (MABEL). Journal of Atmospheric and Oceanic Technology, 2014, 31, 1151-1168.	1.3	37
17	Tidal modulation of ice-shelf flow: a viscous model of the Ross Ice Shelf. Journal of Glaciology, 2014, 60, 500-508.	2.2	36
18	Flow of the Ross Ice Shelf, Antarctica, is modulated by the ocean tide. Journal of Glaciology, 2010, 56, 157-161.	2.2	34

#	Article	IF	Citations
19	Determination of Local Slope on the Greenland Ice Sheet Using a Multibeam Photon-Counting Lidar in Preparation for the ICESat-2 Mission. IEEE Geoscience and Remote Sensing Letters, 2014, 11, 935-939.	3.1	34
20	Assessment of NASA airborne laser altimetry data using ground-based GPS data near Summit Station, Greenland. Cryosphere, 2017, 11, 681-692.	3.9	34
21	Assessment of altimetry using ground-based GPS data from the 88S Traverse, Antarctica, in support of ICESat-2. Cryosphere, 2019, 13, 579-590.	3.9	33
22	Passive Groundâ€Based Optical Techniques for Monitoring the Onâ€Orbit ICESatâ€2 Altimeter Geolocation and Footprint Diameter. Earth and Space Science, 2021, 8, e2020EA001414.	2.6	32
23	ICESatâ€2 Meltwater Depth Estimates: Application to Surface Melt on Amery Ice Shelf, East Antarctica. Geophysical Research Letters, 2021, 48, e2020GL090550.	4.0	30
24	MABEL photon-counting laser altimetry data in Alaska for ICESat-2 simulations and development. Cryosphere, 2016, 10, 1707-1719.	3.9	29
25	Observations of unusual fast-ice conditions in the southwest Ross Sea, Antarctica: preliminary analysis of iceberg and storminess effects. Annals of Glaciology, 2006, 44, 183-187.	1.4	26
26	Comparisons of Satellite and Airborne Altimetry With Groundâ€Based Data From the Interior of the Antarctic Ice Sheet. Geophysical Research Letters, 2021, 48, e2020GL090572.	4.0	26
27	ICESAT/GLAS Altimetry Measurements: Received Signal Dynamic Range and Saturation Correction. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 5440-5454.	6.3	22
28	Sea-ice freeboard retrieval using digital photon-counting laser altimetry. Annals of Glaciology, 2015, 56, 167-174.	1.4	20
29	Using ICESat-2 and Operation IceBridge altimetry for supraglacial lake depth retrievals. Cryosphere, 2020, 14, 4253-4263.	3.9	18
30	A Terrestrial Validation of ICESat Elevation Measurements and Implications for Global Reanalyses. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 6946-6959.	6.3	17
31	Accelerating Ice Loss From Peripheral Glaciers in North Greenland. Geophysical Research Letters, 2022, 49, .	4.0	14
32	Ice-shelf flexure and tidal forcing of Bindschadler Ice Stream, West Antarctica. Earth and Planetary Science Letters, 2014, 395, 184-193.	4.4	8
33	Greenland Ice Sheet Elevation Change: Direct Observation of Process and Attribution at Summit. Geophysical Research Letters, 2020, 47, e2020GL088864.	4.0	7
34	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. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006862.	3.6	7
35	New Earth Orbiter Provides a Sharper Look at a Changing Planet. Eos, 2019, 100, .	0.1	7
36	Temporal and spatial variability in surface roughness and accumulation rate around 88Â°â€‰S from repeat airborne geophysical surveys. Cryosphere, 2020, 14, 3287-3308.	3.9	6

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37	Radiometric calibration of a non-imaging airborne spectrometer to measure the Greenland ice sheet surface. Atmospheric Measurement Techniques, 2019, 12, 1913-1933.	3.1	1