

# Thomas A Neumann

## List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5710791/publications.pdf>

Version: 2024-02-01

45  
papers

3,035  
citations

201674

27  
h-index

254184

43  
g-index

66  
all docs

66  
docs citations

66  
times ranked

2402  
citing authors

#	ARTICLE	IF	CITATIONS
1	The ICESat-2 Laser Altimetry Mission. Proceedings of the IEEE, 2010, 98, 735-751.	21.3	327
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	Direct observations of evolving subglacial drainage beneath the Greenland Ice Sheet. Nature, 2014, 514, 80-83.	27.8	251
5	Greenland ice sheet mass balance: distribution of increased mass loss with climate warming; 2003â€“07 versus 1992â€“2002. Journal of Glaciology, 2011, 57, 88-102.	2.2	185
6	Links between acceleration, melting, and supraglacial lake drainage of the western Greenland Ice Sheet. Journal of Geophysical Research, 2011, 116, .	3.3	131
7	Land ice height-retrieval algorithm for NASA's ICESat-2 photon-counting laser altimeter. Remote Sensing of Environment, 2019, 233, 111352.	11.0	113
8	Greenland subglacial drainage evolution regulated by weakly connected regions of the bed. Nature Communications, 2016, 7, 13903.	12.8	108
9	Assessment of ICESatâ€™s 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
10	Inference of accumulation-rate patterns from deep layers in glaciers and ice sheets. Journal of Glaciology, 2007, 53, 694-712.	2.2	100
11	Characterizing englacial drainage in the ablation zone of the Greenland ice sheet. Journal of Glaciology, 2008, 54, 567-578.	2.2	99
12	Persistent englacial drainage features in the Greenland Ice Sheet. Geophysical Research Letters, 2010, 37, .	4.0	97
13	The Multiple Altimeter Beam Experimental Lidar (MABEL): An Airborne Simulator for the ICESat-2 Mission. Journal of Atmospheric and Oceanic Technology, 2013, 30, 345-352.	1.3	80
14	Effects of firn ventilation on isotopic exchange. Journal of Glaciology, 2004, 50, 183-194.	2.2	65
15	Sustained high basal motion of the Greenland ice sheet revealed by borehole deformation. Journal of Glaciology, 2014, 60, 647-660.	2.2	65
16	Heat sources within the Greenland Ice Sheet: dissipation, temperate paleo-firn and cryo-hydrologic warming. Cryosphere, 2015, 9, 245-253.	3.9	50
17	The Scientific Legacy of NASAâ€™s Operation IceBridge. Reviews of Geophysics, 2021, 59, e2020RG000712.	23.0	49
18	Retreat of Glacier Tyndall, Patagonia, over the last half-century. Journal of Glaciology, 2005, 51, 239-247.	2.2	46

#	ARTICLE	IF	CITATIONS
19	Caterpillar-like ice motion in the ablation zone of the Greenland ice sheet. <i>Journal of Geophysical Research F: Earth Surface</i> , 2014, 119, 2258-2271.	2.8	46
20	A ten-year record of supraglacial lake evolution and rapid drainage in West Greenland using an automated processing algorithm for multispectral imagery. <i>Cryosphere</i> , 2013, 7, 1869-1877.	3.9	43
21	ICESat-2 mission overview and early performance. , 2019, , .		43
22	Widespread Moulin Formation During Supraglacial Lake Drainages in Greenland. <i>Geophysical Research Letters</i> , 2018, 45, 778-788.	4.0	39
23	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
24	Holocene accumulation and ice sheet dynamics in central West Antarctica. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	36
25	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
26	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
27	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
28	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
29	MABEL photon-counting laser altimetry data in Alaska for ICESat-2 simulations and development. <i>Cryosphere</i> , 2016, 10, 1707-1719.	3.9	29
30	Non-climate influences on stable isotopes at Taylor Mouth, Antarctica. <i>Journal of Glaciology</i> , 2005, 51, 248-258.	2.2	28
31	Seasonal Evolution of the Subglacial Hydrologic System Modified by Supraglacial Lake Drainage in Western Greenland. <i>Journal of Geophysical Research F: Earth Surface</i> , 2018, 123, 1479-1496.	2.8	27
32	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
33	ICESat-2 Early Mission Synopsis and Observatory Performance. <i>Earth and Space Science</i> , 2021, 8, e2020EA001555.	2.6	24
34	An ice sheet model validation framework for the Greenland ice sheet. <i>Geoscientific Model Development</i> , 2017, 10, 255-270.	3.6	18
35	Accelerating Ice Loss From Peripheral Glaciers in North Greenland. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	14
36	ICESat Elevations in Antarctica Along the 2007-09 Norway-USA Traverse: Validation With Ground-Based GPS. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 1578-1587.	6.3	13

#	ARTICLE	IF	CITATIONS
37	Antarctic ice shelf thickness change from multitemission lidar mapping. <i>Cryosphere</i> , 2019, 13, 1801-1817.	3.9	8
38	Characterizing the System Impulse Response Function From Photon-Counting LiDAR Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2019, 57, 6542-6551.	6.3	7
39	Greenland Ice Sheet Elevation Change: Direct Observation of Process and Attribution at Summit. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088864.	4.0	7
40	On-orbit Radiometric Performance on ICESat-2. <i>Earth and Space Science</i> , 2021, 8, e2020EA001503.	2.6	6
41	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
42	Wavelet analysis reveals periodic oscillations in a 1700 year ice-core record from Guliya, China. <i>Annals of Glaciology</i> , 2006, 43, 132-136.	1.4	5
43	Brief communication: Preliminary ICESat-2 (Ice, Cloud and land Elevation Satellite-2) measurements of outlet glaciers reveal heterogeneous patterns of seasonal dynamic thickness change. <i>Cryosphere</i> , 2022, 16, 1341-1348.	3.9	4
44	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
45	ICE SHEET ELEVATION MAPPING AND CHANGE DETECTION WITH THE ICE, CLOUD AND LAND ELEVATION SATELLITE-2. <i>International Archives of the Photogrammetry, Remote Sensing and Spatial Information Sciences - ISPRS Archives</i> , 0, XLII-2/W13, 1747-1751.	0.2	1