Michael Studinger

List of Publications by Year
in descending order

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45 papers	4,292 citations	201674 27 h-index	276875 41 g-index
54 all docs	54 docs citations	54 times ranked	3784 citing authors

#	Article	IF	Citations
1	The Scientific Legacy of NASAâ€™s Operation IceBridge. Reviews of Geophysics, 2021, 59, e2020RG000712.	23.0	49
2	Brief communication: An empirical relation between center frequency and measured thickness for radar sounding of temperate glaciers. Cryosphere, 2021, 15, 2569-2574.	3.9	3
3	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
4	ICESatâ€‚2 Surface Height and Sea Ice Freeboard Assessed With ATM Lidar Acquisitions From Operation IceBridge. Geophysical Research Letters, 2019, 46, 11228-11236.	4.0	38
5	A Possible Second Large Subglacial Impact Crater in Northwest Greenland. Geophysical Research Letters, 2019, 46, 1496-1504.	4.0	18
6	Evidence for Extending Anomalous Miocene Volcanism at the Edge of the East Antarctic Craton. Geophysical Research Letters, 2018, 45, 3009-3016.	4.0	15
7	Assessment of NASA airborne laser altimetry data using ground-based GPS data near Summit Station, Greenland. Cryosphere, 2017, 11, 681-692.	3.9	34
8	New Antarctic gravity anomaly grid for enhanced geodetic and geophysical studies in Antarctica. Geophysical Research Letters, 2016, 43, 600-610.	4.0	74
9	Intra-scan intersection method for the determination of pointing biases of an airborne altimeter. International Journal of Remote Sensing, 2016, 37, 648-668.	2.9	3
10	Arctic Sea Ice Freeboard Retrieval With Waveform Characteristics for NASA's Airborne Topographic Mapper (ATM) and Land, Vegetation, and Ice Sensor (LVIS). IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 1403-1410.	6.3	25
11	A Semiautomated Multilayer Picking Algorithm for Ice-Sheet Radar Echograms Applied to Ground-Based Near-Surface Data. IEEE Transactions on Geoscience and Remote Sensing, 2015, 53, 51-69.	6.3	17
12	An improved CryoSat-2 sea ice freeboard retrieval algorithm through the use of waveform fitting. Cryosphere, 2014, 8, 1217-1237.	3.9	132
13	Influence of persistent wind scour on the surface mass balance of Antarctica. Nature Geoscience, 2013, 6, 367-371.	12.9	87
14	A Sea-Ice Lead Detection Algorithm for Use With High-Resolution Airborne Visible Imagery. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 38-56.	6.3	43
15	Sea ice thickness, freeboard, and snow depth products from Operation IceBridge airborne data. Cryosphere, 2013, 7, 1035-1056.	3.9	202
16	Bedmap2: improved ice bed, surface and thickness datasets for Antarctica. Cryosphere, 2013, 7, 375-393.	3.9	1,455
17	<scp>IceBridge</scp> Airborne Survey Data Support Arctic Sea Ice Predictions. Eos, 2013, 94, 41-41.	0.1	21
18	Sensitivity of the ice-shelf/ocean system to the sub-ice-shelf cavity shape measured by NASA IceBridge in Pine Island Glacier, West Antarctica. Annals of Glaciology, 2012, 53, 156-162.	1.4	130

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19	Rift in Antarctic Glacier: A Unique Chance to Study Ice Shelf Retreat. Eos, 2012, 93, 77-78.	0.1	9
20	Widespread Persistent Thickening of the East Antarctic Ice Sheet by Freezing from the Base. Science, 2011, 331, 1592-1595.	12.6	161
21	Vostok subglacial lake: A review of geophysical data regarding its discovery and topographic setting. Geophysical Monograph Series, 2011, , 45-60.	0.1	23
22	Operation icebridge: Using instrumented aircraft to bridge the observational gap between icesat and icesat-2. , 2010, , .		23
23	Polar Airborne Observations Fill Gap in Satellite Data. Eos, 2010, 91, 333-334.	0.1	76
24	Antarctica sinking. Nature Geoscience, 2009, 2, 671-672.	12.9	0
25	Radar detection of accreted ice over Lake Vostok, Antarctica. Earth and Planetary Science Letters, 2009, 282, 222-233.	4.4	19
26	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
27	Millennially averaged accumulation rates for the Vostok Subglacial Lake region inferred from deep internal layers. Annals of Glaciology, 2009, 50, 25-34.	1.4	18
28	Comparison of AIRGrav and GT-1A airborne gravimeters for research applications. Geophysics, 2008, 73, I51-I61.	2.6	57
29	Antarctic subglacial water: origin, evolution, and ecology. , 2008, , 119-136.		87
30	Plateau collapse model for the Transantarctic Mountainsâ€“West Antarctic Rift System: Insights from numerical experiments. Geology, 2007, 35, 687.	4.4	64
31	Large subglacial lakes in East Antarctica at the onset of fast-flowing ice streams. Nature, 2007, 445, 904-907.	27.8	224
32	Tectonically controlled subglacial lakes on the flanks of the Gamburtsev Subglacial Mountains, East Antarctica. Geophysical Research Letters, 2006, 33, .	4.0	52
33	Crustal architecture of the Transantarctic Mountains between the Scott and Reedy Glacier region and South Pole from aerogeophysical data. Earth and Planetary Science Letters, 2006, 250, 182-199.	4.4	44
34	Limnological conditions in Subglacial Lake Vostok, Antarctica. Limnology and Oceanography, 2006, 51, 2485-2501.	3.1	169
35	Influx of meltwater to subglacial Lake Concordia, East Antarctica. Journal of Glaciology, 2005, 51, 96-104.	2.2	30
36	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

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37	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
38	Anomalous accumulation rates in the Vostok ice-core resulting from ice flow over Lake Vostok. Geophysical Research Letters, 2004, 31, .	4.0	21
39	Ice flow field over Lake Vostok, East Antarctica inferred by structure tracking. Earth and Planetary Science Letters, 2004, 227, 249-261.	4.4	39
40	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
41	Ice cover, landscape setting, and geological framework of Lake Vostok, East Antarctica. Earth and Planetary Science Letters, 2003, 205, 195-210.	4.4	123
42	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
43	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
44	Subglacial sediments: A regional geological template for ice flow in West Antarctica. Geophysical Research Letters, 2001, 28, 3493-3496.	4.0	96
45	Geologic Controls on the Initiation of Rapid Basal Motion for West Antarctic Ice Streams: A Geophysical Perspective Including New Airborne Radar Sounding and Laser Altimetry Results. Antarctic Research Series, 0, , 105-121.	0.2	63