

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	Bedmap2: improved ice bed, surface and thickness datasets for Antarctica. <i>Cryosphere</i> , 2013, 7, 375-393.	3.9	1,455
2	Large subglacial lakes in East Antarctica at the onset of fast-flowing ice streams. <i>Nature</i> , 2007, 445, 904-907.	27.8	224
3	Sea ice thickness, freeboard, and snow depth products from Operation IceBridge airborne data. <i>Cryosphere</i> , 2013, 7, 1035-1056.	3.9	202
4	Limnological conditions in Subglacial Lake Vostok, Antarctica. <i>Limnology and Oceanography</i> , 2006, 51, 2485-2501.	3.1	169
5	Widespread Persistent Thickening of the East Antarctic Ice Sheet by Freezing from the Base. <i>Science</i> , 2011, 331, 1592-1595.	12.6	161
6	An improved CryoSat-2 sea ice freeboard retrieval algorithm through the use of waveform fitting. <i>Cryosphere</i> , 2014, 8, 1217-1237.	3.9	132
7	Sensitivity of the ice-shelf/ocean system to the sub-ice-shelf cavity shape measured by NASA IceBridge in Pine Island Glacier, West Antarctica. <i>Annals of Glaciology</i> , 2012, 53, 156-162.	1.4	130
8	Origin and fate of Lake Vostok water frozen to the base of the East Antarctic ice sheet. <i>Nature</i> , 2002, 416, 307-310.	27.8	128
9	Ice cover, landscape setting, and geological framework of Lake Vostok, East Antarctica. <i>Earth and Planetary Science Letters</i> , 2003, 205, 195-210.	4.4	123
10	Sub-ice geology inland of the Transantarctic Mountains in light of new aerogeophysical data. <i>Earth and Planetary Science Letters</i> , 2004, 220, 391-408.	4.4	115
11	Subglacial sediments: A regional geological template for ice flow in West Antarctica. <i>Geophysical Research Letters</i> , 2001, 28, 3493-3496.	4.0	96
12	Influence of persistent wind scour on the surface mass balance of Antarctica. <i>Nature Geoscience</i> , 2013, 6, 367-371.	12.9	87
13	Antarctic subglacial water: origin, evolution, and ecology. , 2008, , 119-136.		87
14	Estimating the depth and shape of subglacial Lake Vostok's water cavity from aerogravity data. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a.	4.0	76
15	Polar Airborne Observations Fill Gap in Satellite Data. <i>Eos</i> , 2010, 91, 333-334.	0.1	76
16	Geophysical models for the tectonic framework of the Lake Vostok region, East Antarctica. <i>Earth and Planetary Science Letters</i> , 2003, 216, 663-677.	4.4	74
17	New Antarctic gravity anomaly grid for enhanced geodetic and geophysical studies in Antarctica. <i>Geophysical Research Letters</i> , 2016, 43, 600-610.	4.0	74
18	Antarctic crustal thickness from satellite gravity: Implications for the Transantarctic and Gamburtsev Subglacial Mountains. <i>Earth and Planetary Science Letters</i> , 2009, 288, 194-203.	4.4	69

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19	Gravity anomalies of sedimentary basins and their mechanical implications: Application to the Ross Sea basins, West Antarctica. <i>Earth and Planetary Science Letters</i> , 2005, 235, 577-596.	4.4	68
20	Plateau collapse model for the Transantarctic Mountainsâ€“West Antarctic Rift System: Insights from numerical experiments. <i>Geology</i> , 2007, 35, 687.	4.4	64
21	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. <i>Antarctic Research Series</i> , 0, , 105-121.	0.2	63
22	Comparison of AIRGrav and GT-1A airborne gravimeters for research applications. <i>Geophysics</i> , 2008, 73, 151-161.	2.6	57
23	Tectonically controlled subglacial lakes on the flanks of the Gamburtsev Subglacial Mountains, East Antarctica. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	52
24	The Scientific Legacy of NASAâ€™s Operation IceBridge. <i>Reviews of Geophysics</i> , 2021, 59, e2020RG000712.	23.0	49
25	Crustal architecture of the Transantarctic Mountains between the Scott and Reedy Glacier region and South Pole from aerogeophysical data. <i>Earth and Planetary Science Letters</i> , 2006, 250, 182-199.	4.4	44
26	A Sea-Ice Lead Detection Algorithm for Use With High-Resolution Airborne Visible Imagery. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2013, 51, 38-56.	6.3	43
27	Ice flow field over Lake Vostok, East Antarctica inferred by structure tracking. <i>Earth and Planetary Science Letters</i> , 2004, 227, 249-261.	4.4	39
28	ICESatâ€™2 Surface Height and Sea Ice Freeboard Assessed With ATM Lidar Acquisitions From Operation IceBridge. <i>Geophysical Research Letters</i> , 2019, 46, 11228-11236.	4.0	38
29	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
30	Influx of meltwater to subglacial Lake Concordia, East Antarctica. <i>Journal of Glaciology</i> , 2005, 51, 96-104.	2.2	30
31	Arctic Sea Ice Freeboard Retrieval With Waveform Characteristics for NASA's Airborne Topographic Mapper (ATM) and Land, Vegetation, and Ice Sensor (LVIS). <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 1403-1410.	6.3	25
32	Operation icebridge: Using instrumented aircraft to bridge the observational gap between icesat and icesat-2. , 2010, , .		23
33	Vostok subglacial lake: A review of geophysical data regarding its discovery and topographic setting. <i>Geophysical Monograph Series</i> , 2011, , 45-60.	0.1	23
34	Anomalous accumulation rates in the Vostok ice-core resulting from ice flow over Lake Vostok. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	21
35	<scp>IceBridge</scp> Airborne Survey Data Support Arctic Sea Ice Predictions. <i>Eos</i> , 2013, 94, 41-41.	0.1	21
36	Radar detection of accreted ice over Lake Vostok, Antarctica. <i>Earth and Planetary Science Letters</i> , 2009, 282, 222-233.	4.4	19

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37	Millennially averaged accumulation rates for the Vostok Subglacial Lake region inferred from deep internal layers. <i>Annals of Glaciology</i> , 2009, 50, 25-34.	1.4	18
38	A Possible Second Large Subglacial Impact Crater in Northwest Greenland. <i>Geophysical Research Letters</i> , 2019, 46, 1496-1504.	4.0	18
39	A Semiautomated Multilayer Picking Algorithm for Ice-Sheet Radar Echograms Applied to Ground-Based Near-Surface Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 51-69.	6.3	17
40	Evidence for Extending Anomalous Miocene Volcanism at the Edge of the East Antarctic Craton. <i>Geophysical Research Letters</i> , 2018, 45, 3009-3016.	4.0	15
41	Rift in Antarctic Glacier: A Unique Chance to Study Ice Shelf Retreat. <i>Eos</i> , 2012, 93, 77-78.	0.1	9
42	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
43	Intra-scan intersection method for the determination of pointing biases of an airborne altimeter. <i>International Journal of Remote Sensing</i> , 2016, 37, 648-668.	2.9	3
44	Brief communication: An empirical relation between center frequency and measured thickness for radar sounding of temperate glaciers. <i>Cryosphere</i> , 2021, 15, 2569-2574.	3.9	3
45	Antarctica sinking. <i>Nature Geoscience</i> , 2009, 2, 671-672.	12.9	0