

Bernd Scheuchl

List of Publications by Year in descending order

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Version: 2024-02-01

35
papers

7,112
citations

218381

26
h-index

377514

34
g-index

38
all docs

38
docs citations

38
times ranked

5322
citing authors

#	ARTICLE	IF	CITATIONS
1	A Reconciled Estimate of Ice-Sheet Mass Balance. <i>Science</i> , 2012, 338, 1183-1189.	6.0	1,246
2	Ice-Shelf Melting Around Antarctica. <i>Science</i> , 2013, 341, 266-270.	6.0	986
3	Ice Flow of the Antarctic Ice Sheet. <i>Science</i> , 2011, 333, 1427-1430.	6.0	906
4	Four decades of Antarctic Ice Sheet mass balance from 1979 to 2017. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 1095-1103.	3.3	662
5	Widespread, rapid grounding line retreat of Pine Island, Thwaites, Smith, and Kohler glaciers, West Antarctica, from 1992 to 2011. <i>Geophysical Research Letters</i> , 2014, 41, 3502-3509.	1.5	621
6	Forty-six years of Greenland Ice Sheet mass balance from 1972 to 2018. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2019, 116, 9239-9244.	3.3	452
7	Antarctic grounding line mapping from differential satellite radar interferometry. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	366
8	Sustained increase in ice discharge from the Amundsen Sea Embayment, West Antarctica, from 1973 to 2013. <i>Geophysical Research Letters</i> , 2014, 41, 1576-1584.	1.5	333
9	Comprehensive Annual Ice Sheet Velocity Mapping Using Landsat-8, Sentinel-1, and RADARSAT-2 Data. <i>Remote Sensing</i> , 2017, 9, 364.	1.8	181
10	Mapping of Ice Motion in Antarctica Using Synthetic-Aperture Radar Data. <i>Remote Sensing</i> , 2012, 4, 2753-2767.	1.8	168
11	Fast retreat of Zachariæ Isstrøm, northeast Greenland. <i>Science</i> , 2015, 350, 1357-1361.	6.0	158
12	Continental-Wide, Interferometric SAR Phase, Mapping of Antarctic Ice Velocity. <i>Geophysical Research Letters</i> , 2019, 46, 9710-9718.	1.5	110
13	Heterogeneous retreat and ice melt of Thwaites Glacier, West Antarctica. <i>Science Advances</i> , 2019, 5, eaau3433.	4.7	109
14	Ocean forcing drives glacier retreat in Greenland. <i>Science Advances</i> , 2021, 7, .	4.7	86
15	Modeling of ocean-induced ice melt rates of five west Greenland glaciers over the past two decades. <i>Geophysical Research Letters</i> , 2016, 43, 6374-6382.	1.5	85
16	Grounding line retreat of Totten Glacier, East Antarctica, 1996 to 2013. <i>Geophysical Research Letters</i> , 2015, 42, 8049-8056.	1.5	71
17	Grounding line retreat of Pope, Smith, and Kohler Glaciers, West Antarctica, measured with Sentinel-1a radar interferometry data. <i>Geophysical Research Letters</i> , 2016, 43, 8572-8579.	1.5	67
18	Ice flow dynamics and mass loss of Totten Glacier, East Antarctica, from 1989 to 2015. <i>Geophysical Research Letters</i> , 2016, 43, 6366-6373.	1.5	63

#	ARTICLE	IF	CITATIONS
19	A constitutive framework for predicting weakening and reduced buttressing of ice shelves based on observations of the progressive deterioration of the remnant Larsen B Ice Shelf. <i>Geophysical Research Letters</i> , 2016, 43, 2027-2035.	1.5	58
20	Rapid submarine ice melting in the grounding zones of ice shelves in West Antarctica. <i>Nature Communications</i> , 2016, 7, 13243.	5.8	58
21	Ice velocity changes in the Ross and Ronne sectors observed using satellite radar data from 1997 and 2009. <i>Cryosphere</i> , 2012, 6, 1019-1030.	1.5	42
22	The evolving instability of the remnant Larsen B Ice Shelf and its tributary glaciers. <i>Earth and Planetary Science Letters</i> , 2015, 419, 199-210.	1.8	37
23	On the Short-term Grounding Zone Dynamics of Pine Island Glacier, West Antarctica, Observed With COSMO-SkyMed Interferometric Data. <i>Geophysical Research Letters</i> , 2017, 44, 10,436.	1.5	33
24	Computing the volume response of the Antarctic Peninsula ice sheet to warming scenarios to 2200. <i>Journal of Glaciology</i> , 2013, 59, 397-409.	1.1	31
25	Rapid glacier retreat rates observed in West Antarctica. <i>Nature Geoscience</i> , 2022, 15, 48-53.	5.4	31
26	Grounding Line Retreat of Denman Glacier, East Antarctica, Measured With COSMO-SkyMed Radar Interferometry Data. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086291.	1.5	28
27	Ionospheric correction of InSAR data for accurate ice velocity measurement at polar regions. <i>Remote Sensing of Environment</i> , 2018, 209, 166-180.	4.6	23
28	Automatic delineation of glacier grounding lines in differential interferometric synthetic-aperture radar data using deep learning. <i>Scientific Reports</i> , 2021, 11, 4992.	1.6	22
29	Insights on the Surge Behavior of Storstrømmen and L. Bistrup Brå, Northeast Greenland, Over the Last Century. <i>Geophysical Research Letters</i> , 2018, 45, 11,197.	1.5	20
30	Intercomparison and Validation of SAR-Based Ice Velocity Measurement Techniques within the Greenland Ice Sheet CCI Project. <i>Remote Sensing</i> , 2018, 10, 929.	1.8	18
31	Physical processes controlling the rifting of Larsen C Ice Shelf, Antarctica, prior to the calving of iceberg A68. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2021, 118, .	3.3	16
32	Constraining an Ocean Model Under Getz Ice Shelf, Antarctica, Using A Gravity-Derived Bathymetry. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086522.	1.5	12
33	Continued slowing of the Ross Ice Shelf and thickening of West Antarctic ice streams. <i>Journal of Glaciology</i> , 2013, 59, 838-844.	1.1	8
34	Impact of Calving Dynamics on Kangilernata Sermia, Greenland. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088524.	1.5	3
35	Cryosphere Sciences with NISAR. , 2021, , .		0