

Sascha Willmes

List of Publications by Year in descending order

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Version: 2024-02-01

38
papers

1,040
citations

331670

21
h-index

434195

31
g-index

48
all docs

48
docs citations

48
times ranked

1194
citing authors

#	ARTICLE	IF	CITATIONS
1	Sea-Ice Wintertime Lead Frequencies and Regional Characteristics in the Arctic, 2003â€“2015. Remote Sensing, 2016, 8, 4.	4.0	69
2	Pan-Arctic lead detection from MODIS thermal infrared imagery. Annals of Glaciology, 2015, 56, 29-37.	1.4	57
3	Variability and trends in Laptev Sea ice outflow between 1992â€“2011. Cryosphere, 2013, 7, 349-363.	3.9	48
4	Wintertime Airborne Measurements of Ice Nucleating Particles in the High Arctic: A Hint to a Marine, Biogenic Source for Ice Nucleating Particles. Geophysical Research Letters, 2020, 47, e2020GL087770.	4.0	46
5	MOSAIc drift expedition from October 2019 to July 2020: sea ice conditions from space and comparison with previous years. Cryosphere, 2021, 15, 3897-3920.	3.9	45
6	Spatio-temporal variability of polynya dynamics and ice production in the Laptev Sea between the winters of 1979/80 and 2007/08. Polar Research, 2011, 30, 5971.	1.6	44
7	Long-term coastal-polynya dynamics in the southern Weddell Sea from MODIS thermal-infrared imagery. Cryosphere, 2015, 9, 2027-2041.	3.9	43
8	A model study of differences of snow thinning on Arctic and Antarctic first-year sea ice during spring and summer. Annals of Glaciology, 2006, 44, 147-153.	1.4	41
9	Evolution of firstâ€“year and secondâ€“year snow properties on sea ice in the Weddell Sea during springâ€“summer transition. Journal of Geophysical Research, 2009, 114, .	3.3	37
10	Cross-validation of polynya monitoring methods from multisensor satellite and airborne data: a case study for the Laptev Sea. Canadian Journal of Remote Sensing, 2010, 36, S196-S210.	2.4	37
11	Improvement and Sensitivity Analysis of Thermal Thin-Ice Thickness Retrievals. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 3306-3318.	6.3	37
12	High-resolution mapping of circum-Antarctic landfast sea ice distribution, 2000â€“2018. Earth System Science Data, 2020, 12, 2987-2999.	9.9	37
13	Multi-Decadal Variability of Polynya Characteristics and Ice Production in the North Water Polynya by Means of Passive Microwave and Thermal Infrared Satellite Imagery. Remote Sensing, 2015, 7, 15844-15867.	4.0	31
14	Circumpolar polynya regions and ice production in the Arctic: results from MODIS thermal infrared imagery from 2002/2003 to 2014/2015 with a regional focus on the Laptev Sea. Cryosphere, 2016, 10, 3021-3042.	3.9	31
15	The microwave emissivity variability of snow covered first-year sea ice from late winter to early summer: a model study. Cryosphere, 2014, 8, 891-904.	3.9	30
16	A New Algorithm for Daily Sea Ice Lead Identification in the Arctic and Antarctic Winter from Thermal-Infrared Satellite Imagery. Remote Sensing, 2020, 12, 1957.	4.0	30
17	Seaâ€“ice production over the Laptev Sea shelf inferred from historical summerâ€“toâ€“winter hydrographic observations of 1960sâ€“1990s. Geophysical Research Letters, 2009, 36, .	4.0	28
18	The impact of a thermodynamic sea-ice module in the COSMO numerical weather prediction model on simulations for the Laptev Sea, Siberian Arctic. Polar Research, 2011, 30, 6334.	1.6	26

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19	Quantification of ice production in Laptev Sea polynyas and its sensitivity to thin-ice parameterizations in a regional climate model. <i>Cryosphere</i> , 2016, 10, 2999-3019.	3.9	26
20	Sea Ice Leads Detection Using SARAL/AltiKa Altimeter. <i>Marine Geodesy</i> , 2015, 38, 522-533.	2.0	25
21	Retrieval of Wintertime Sea Ice Production in Arctic Polynyas Using Thermal Infrared and Passive Microwave Remote Sensing Data. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 5503-5528.	2.6	23
22	The importance of diurnal processes for the Seasonal cycle of Sea-ice microwave brightness temperatures during early Summer in the Weddell Sea, Antarctica. <i>Annals of Glaciology</i> , 2006, 44, 297-302.	1.4	22
23	Timing and regional patterns of snowmelt on Antarctic sea ice from passive microwave satellite observations. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 5916-5930.	2.6	21
24	Landfast ice controls on sea-ice production in the Cape Darnley Polynya: A case study. <i>Remote Sensing of Environment</i> , 2019, 233, 111315.	11.0	21
25	Satellite microwave observations of the interannual variability of snowmelt on sea ice in the Southern Ocean. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	20
26	Sea ice production and water mass modification in the eastern Laptev Sea. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	19
27	Evaluation of simulated sea-ice concentrations from sea-ice/ocean models using satellite data and polynya classification methods. <i>Polar Research</i> , 2011, 30, 7124.	1.6	19
28	Annual cycle observations of aerosols capable of ice formation in central Arctic clouds. <i>Nature Communications</i> , 2022, 13, .	12.8	19
29	Thin-ice dynamics and ice production in the Storfjorden polynya for winter seasons 2002/2003–2013/2014 using MODIS thermal infrared imagery. <i>Cryosphere</i> , 2015, 9, 1063-1073.	3.9	18
30	Ice production in Storfjorden (Svalbard) estimated from a model based on AMSR-2 observations: Impact on water mass properties. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 377-393.	2.6	17
31	Spatial Feature Reconstruction of Cloud-Covered Areas in Daily MODIS Composites. <i>Remote Sensing</i> , 2015, 7, 5042-5056.	4.0	16
32	Quantifying polynya ice production in the Laptev Sea with the COSMO model. <i>Polar Research</i> , 2013, 32, 20922.	1.6	14
33	Meteorology and oceanography of the Atlantic sector of the Southern Ocean—a review of German achievements from the last decade. <i>Ocean Dynamics</i> , 2016, 66, 1379-1413.	2.2	12
34	Observations and Simulations of Meteorological Conditions over Arctic Thick Sea Ice in Late Winter during the Transarktika 2019 Expedition. <i>Atmosphere</i> , 2021, 12, 174.	2.3	11
35	A Satellite-Based Climatology of Wind-Induced Surface Temperature Anomalies for the Antarctic. <i>Remote Sensing</i> , 2019, 11, 1539.	4.0	4
36	Predominant Sea Ice Fracture Zones Around Antarctica and Their Relation to Bathymetric Features. <i>Geophysical Research Letters</i> , 2019, 46, 12117-12124.	4.0	4

#	ARTICLE	IF	CITATIONS
37	A Model-Based Temperature Adjustment Scheme for Wintertime Sea-Ice Production Retrievals from MODIS. Remote Sensing, 2022, 14, 2036.	4.0	1
38	Sea-Ice Parameters from Satellite Remote Sensing. , 2019, , 105-121.		0