

# Walter N Meier

## List of Publications by Year in descending order

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53  
papers

3,964  
citations

236925

25  
h-index

206112

48  
g-index

66  
all docs

66  
docs citations

66  
times ranked

5559  
citing authors

#	ARTICLE	IF	CITATIONS
1	Trends in Arctic sea ice extent from CMIP5, CMIP3 and observations. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	817
2	Key indicators of Arctic climate change: 1971â€“2017. <i>Environmental Research Letters</i> , 2019, 14, 045010.	5.2	471
3	Arctic sea ice in transformation: A review of recent observed changes and impacts on biology and human activity. <i>Reviews of Geophysics</i> , 2014, 52, 185-217.	23.0	424
4	A long-term and reproducible passive microwave sea ice concentration data record for climate studies and monitoring. <i>Earth System Science Data</i> , 2013, 5, 311-318.	9.9	230
5	A review of recent changes in Southern Ocean sea ice, their drivers and forcings. <i>Global and Planetary Change</i> , 2016, 143, 228-250.	3.5	202
6	Variability and trends in the Arctic sea ice cover: Results from different techniques. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 6883-6900.	2.6	197
7	Whither Arctic sea ice? A clear signal of decline regionally, seasonally and extending beyond the satellite record. <i>Annals of Glaciology</i> , 2007, 46, 428-434.	1.4	172
8	Sea ice response to an extreme negative phase of the Arctic Oscillation during winter 2009/2010. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	149
9	The Arctic's sea ice cover: trends, variability, predictability, and comparisons to the Antarctic. <i>Annals of the New York Academy of Sciences</i> , 2019, 1436, 36-53.	3.8	134
10	An enhancement to sea ice motion and age products at the National Snow and Ice Data Center (NSIDC). <i>Cryosphere</i> , 2020, 14, 1519-1536.	3.9	101
11	Implications of Arctic Sea Ice Decline for the Earth System. <i>Annual Review of Environment and Resources</i> , 2014, 39, 57-89.	13.4	82
12	Error analysis and assimilation of remotely sensed ice motion within an Arctic sea ice model. <i>Journal of Geophysical Research</i> , 2000, 105, 3339-3356.	3.3	76
13	Recent changes in the Arctic melt Season. <i>Annals of Glaciology</i> , 2006, 44, 367-374.	1.4	56
14	The Arctic sea ice cover of 2016: a year of record-low highs and higher-than-expected lows. <i>Cryosphere</i> , 2018, 12, 433-452.	3.9	56
15	Temporal and regional variability of Arctic sea-ice coverage from satellite data. <i>Annals of Glaciology</i> , 2018, 59, 191-200.	1.4	54
16	New estimates of Arctic and Antarctic sea ice extent during September 1964 from recovered Nimbus I satellite imagery. <i>Cryosphere</i> , 2013, 7, 699-705.	3.9	53
17	Regional variability of Arctic sea ice seasonal change climate indicators from a passive microwave climate data record. <i>Environmental Research Letters</i> , 2019, 14, 045003.	5.2	50
18	Comparison of sea-ice extent and ice-edge location estimates from passive microwave and enhanced-resolution scatterometer data. <i>Annals of Glaciology</i> , 2008, 48, 65-70.	1.4	49

#	ARTICLE	IF	CITATIONS
19	Reductions in Arctic sea ice cover no longer limited to summer. <i>Eos</i> , 2005, 86, 326.	0.1	44
20	Assessing uncertainties in sea ice extent climate indicators. <i>Environmental Research Letters</i> , 2019, 14, 035005.	5.2	42
21	How do sea-ice concentrations from operational data compare with passive microwave estimates? Implications for improved model evaluations and forecasting. <i>Annals of Glaciology</i> , 2015, 56, 332-340.	1.4	40
22	Improving Arctic sea ice edge forecasts by assimilating high horizontal resolution sea ice concentration data into the US Navy's ice forecast systems. <i>Cryosphere</i> , 2015, 9, 1735-1745.	3.9	40
23	Verification of a new NOAA/NSIDC passive microwave sea-ice concentration climate record. <i>Polar Research</i> , 2014, 33, 21004.	1.6	35
24	Temporal Means and Variability of Arctic Sea Ice Melt and Freeze Season Climate Indicators Using a Satellite Climate Data Record. <i>Remote Sensing</i> , 2018, 10, 1328.	4.0	35
25	High-resolution Sea-ICE motions from AMSR-E imagery. <i>Annals of Glaciology</i> , 2006, 44, 352-356.	1.4	27
26	Comparison of Passive Microwave-Derived Early Melt Onset Records on Arctic Sea Ice. <i>Remote Sensing</i> , 2017, 9, 199.	4.0	27
27	Forecast Verification of the Polar Ice Prediction System (PIPS) Sea Ice Concentration Fields*. <i>Journal of Atmospheric and Oceanic Technology</i> , 2004, 21, 944-957.	1.3	26
28	Bridging perspectives from remote Sensing and Inuit communities on changing Sea-ice cover in the Baffin Bay region. <i>Annals of Glaciology</i> , 2006, 44, 433-438.	1.4	25
29	Intersensor Calibration Between F-13 SSM/I and F-17 SSMIS Near-Real-Time Sea Ice Estimates. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 3343-3349.	6.3	24
30	Essential gaps and uncertainties in the understanding of the roles and functions of Arctic sea ice. <i>Environmental Research Letters</i> , 2019, 14, 043002.	5.2	24
31	Evaluation of operational SSM/I ice-concentration algorithms. <i>Annals of Glaciology</i> , 2001, 33, 102-108.	1.4	21
32	Super-Resolved Fine-Scale Sea Ice Motion Tracking. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2017, 55, 5427-5439.	6.3	17
33	Anomalous Variability in Antarctic Sea Ice Extents During the 1960s With the Use of Nimbus Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2014, 7, 881-887.	4.9	16
34	Intercalibration of AMSR2 NASA Team 2 Algorithm Sea Ice Concentrations With AMSR-E Slow Rotation Data. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 3923-3933.	4.9	15
35	Operational Implementation of Sea Ice Concentration Estimates From the AMSR2 Sensor. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 3904-3911.	4.9	11
36	Estimation of Arctic Basin-Scale Sea Ice Thickness From Satellite Passive Microwave Measurements. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 5841-5850.	6.3	9

#	ARTICLE	IF	CITATIONS
37	Winter Snow Depth on Arctic Sea Ice From Satellite Radiometer Measurements (2003–2020): Regional Patterns and Trends. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094541.	4.0	8
38	Data assimilation of Sea-ice motion vectors: Sensitivity to the parameterization of Sea-ice Strength. <i>Annals of Glaciology</i> , 2006, 44, 357-360.	1.4	7
39	Improved Sea Ice Parcel Trajectories in the Arctic via Data Assimilation. <i>Marine Pollution Bulletin</i> , 2001, 42, 505-511.	5.0	6
40	Sensitivity of Arctic Sea Ice Extent to Sea Ice Concentration Threshold Choice and Its Implication to Ice Coverage Decadal Trends and Statistical Projections. <i>Remote Sensing</i> , 2020, 12, 807.	4.0	6
41	Sea Ice Climate Normals for Seasonal Ice Monitoring of Arctic and Sub-Regions. <i>Data</i> , 2019, 4, 122.	2.3	5
42	Comparison of Hemispheric and Regional Sea Ice Extent and Area Trends from NOAA and NASA Passive Microwave-Derived Climate Records. <i>Remote Sensing</i> , 2022, 14, 619.	4.0	5
43	Assessment of AMSR2 Ice Extent and Ice Edge in the Arctic Using IMS. <i>Remote Sensing</i> , 2020, 12, 1582.	4.0	4
44	An Integrated Examination of AMSR2 Products Over Ocean. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , 2017, 10, 3963-3974.	4.9	3
45	Assessment of the Stability of Passive Microwave Brightness Temperatures for NASA Team Sea Ice Concentration Retrievals. <i>Remote Sensing</i> , 2020, 12, 2197.	4.0	3
46	Assessing the Potential of Enhanced Resolution Gridded Passive Microwave Brightness Temperatures for Retrieval of Sea Ice Parameters. <i>Remote Sensing</i> , 2020, 12, 2552.	4.0	3
47	A Blended Sea Ice Concentration Product from AMSR2 and VIIRS. <i>Remote Sensing</i> , 2021, 13, 2982.	4.0	3
48	Characterization of a satellite-based passive microwave sea ice concentration climate data record. , 2013, , .		2
49	International coordination to improve studies of changes in Arctic sea ice cover. <i>Eos</i> , 2012, 93, 128-128.	0.1	1
50	Satellite Passive Microwave Observations of Sea Ice. , 2019, , 402-414.		1
51	Arctic Sea Ice Decline. , 0, , .		1
52	Near-Real-Time Global Ice Concentration from Spaceborne Passive Microwave Sensors. , 2006, , .		0
53	Intercalibration of near-real-time snow and sea ice products from passive microwave Data. , 2010, , .		0