

# Ralf Bennartz

## List of Publications by Year in descending order

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Version: 2024-02-01

41  
papers

1,774  
citations

304743

22  
h-index

289244

40  
g-index

57  
all docs

57  
docs citations

57  
times ranked

2090  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Critical Role of EuroAtlantic Blocking in Promoting Snowfall in Central Greenland. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	6
2	Seasonal Estimates and Uncertainties of Snow Accumulation from CloudSat Precipitation Retrievals. Atmosphere, 2021, 12, 363.	2.3	3
3	Demonstration of a Consistent Relationship Between Dual-Frequency Reflectivity and the Mass-Weighted Mean Diameter in Measurements of Frozen Precipitation from GCPEX, OLYMPEX, and MC3E. Journals of the Atmospheric Sciences, 2021, , .	1.7	0
4	Controls on surface aerosol particle number concentrations and aerosol-limited cloud regimes over the central Greenland Ice Sheet. Atmospheric Chemistry and Physics, 2021, 21, 15351-15374.	4.9	4
5	Characterization of chlorophyll fluorescence, absorbed photosynthetically active radiation, and reflectance-based vegetation index spectroradiometer measurements. International Journal of Remote Sensing, 2020, 41, 6755-6782.	2.9	7
6	Sensitivity of 89-190-GHz Microwave Observations to Ice Particle Scattering. Journal of Applied Meteorology and Climatology, 2020, 59, 1195-1215.	1.5	12
7	Assessment of the Zero-Bias Line Homogenization Method for Microwave Radiometers Using Sentinel-3A and Sentinel-3B Tandem Phase. Remote Sensing, 2020, 12, 3154.	4.0	3
8	Spatial and temporal variability of snowfall over Greenland from CloudSat observations. Atmospheric Chemistry and Physics, 2019, 19, 8101-8121.	4.9	33
9	The GEWEX Water Vapor Assessment: Overview and Introduction to Results and Recommendations. Remote Sensing, 2019, 11, 251.	4.0	26
10	An Uncertainty Data Set for Passive Microwave Satellite Observations of Warm Cloud Liquid Water Path. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3668-3687.	3.3	36
11	Process-Based Model Evaluation Using Surface Energy Budget Observations in Central Greenland. Journal of Geophysical Research D: Atmospheres, 2018, 123, 4777-4796.	3.3	15
12	Precipitation regimes over central Greenland inferred from 5 years of ICECAPS observations. Atmospheric Chemistry and Physics, 2018, 18, 4715-4735.	4.9	31
13	Remote Sensing of Droplet Number Concentration in Warm Clouds: A Review of the Current State of Knowledge and Perspectives. Reviews of Geophysics, 2018, 56, 409-453.	23.0	185
14	Evaluating the diurnal cycle of South Atlantic stratocumulus clouds as observed by MSG SEVIRI. Atmospheric Chemistry and Physics, 2018, 18, 13283-13304.	4.9	9
15	The Role of Melting Snow in the Ocean Surface Heat Budget. Geophysical Research Letters, 2018, 45, 9782-9789.	4.0	14
16	Summer Snowfall Workshop: Scattering Properties of Realistic Frozen Hydrometeors from Simulations and Observations, as well as Defining a New Standard for Scattering Databases. Bulletin of the American Meteorological Society, 2018, 99, ES55-ES58.	3.3	19
17	The GEWEX Water Vapor Assessment archive of water vapour products from satellite observations and reanalyses. Earth System Science Data, 2018, 10, 1093-1117.	9.9	42
18	The Multisensor Advanced Climatology of Liquid Water Path (MAC-LWP). Journal of Climate, 2017, 30, 10193-10210.	3.2	72

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19	Global and regional estimates of warm cloud droplet number concentration based on 13 years of AQUA-MODIS observations. <i>Atmospheric Chemistry and Physics</i> , 2017, 17, 9815-9836.	4.9	82
20	Differences in liquid cloud droplet effective radius and number concentration estimates between MODIS collections 5.1 and 6 over global oceans. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2105-2116.	3.1	18
21	An intercalibrated dataset of total column water vapour and wet tropospheric correction based on MWR on board ERS-1, ERS-2, and Envisat. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 1387-1402.	3.1	6
22	The GEWEX Water Vapor Assessment: Results from Intercomparison, Trend, and Homogeneity Analysis of Total Column Water Vapor. <i>Journal of Applied Meteorology and Climatology</i> , 2016, 55, 1633-1649.	1.5	52
23	Microwave signatures of ice hydrometeors from ground-based observations above Summit, Greenland. <i>Atmospheric Chemistry and Physics</i> , 2016, 16, 4743-4756.	4.9	9
24	A Shallow Cumuliform Snowfall Census Using Spaceborne Radar. <i>Journal of Hydrometeorology</i> , 2016, 17, 1261-1279.	1.9	91
25	Summary of the Fourth Cloud Retrieval Evaluation Workshop. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, ES71-ES74.	3.3	5
26	Decadal simulation and comprehensive evaluation of CESM-CAM5.1 with advanced chemistry, aerosol microphysics, and aerosol-cloud interactions. <i>Journal of Advances in Modeling Earth Systems</i> , 2015, 7, 110-141.	3.8	32
27	A multi-model assessment for the 2006 and 2010 simulations under the Air Quality Model Evaluation International Initiative (AQMEII) Phase 2 over North America: Part II. Evaluation of column variable predictions using satellite data. <i>Atmospheric Environment</i> , 2015, 115, 587-603.	4.1	25
28	Evaluating clouds, aerosols, and their interactions in three global climate models using satellite simulators and observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10,876-10,901.	3.3	28
29	High and Dry: New Observations of Tropospheric and Cloud Properties above the Greenland Ice Sheet. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 169-186.	3.3	99
30	Development and initial application of the global through urban weather research and forecasting model with chemistry (GURF/Chem). <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	63
31	Pollution from China increases cloud droplet number, suppresses rain over the East China Sea. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	42
32	Uncertainty Analysis for CloudSat Snowfall Retrievals. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 399-418.	1.5	64
33	Uncertainties in Microwave Properties of Frozen Precipitation: Implications for Remote Sensing and Data Assimilation. <i>Journals of the Atmospheric Sciences</i> , 2010, 67, 3471-3487.	1.7	115
34	Rainwater path in warm clouds derived from combined visible/near-infrared and microwave satellite observations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	16
35	Regional assessment of microphysical properties of marine boundary layer cloud using the PATMOS-x dataset. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	15
36	Utilizing Spaceborne Radars to Retrieve Dry Snowfall. <i>Journal of Applied Meteorology and Climatology</i> , 2009, 48, 2564-2580.	1.5	121

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37	Cloud Liquid Water Path from Satellite-Based Passive Microwave Observations: A New Climatology over the Global Oceans. <i>Journal of Climate</i> , 2008, 21, 1721-1739.	3.2	199
38	Vertical structure of stratiform marine boundary layer clouds and its impact on cloud albedo. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	35
39	Correction to "Global assessment of marine boundary layer cloud droplet number concentration from satellite". <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	15
40	The Successive-Order-of-Interaction Radiative Transfer Model. Part I: Model Development. <i>Journal of Applied Meteorology and Climatology</i> , 2006, 45, 1388-1402.	1.5	91
41	An Algorithm for the Retrieval of Droplet Number Concentration and Geometrical Thickness of Stratiform Marine Boundary Layer Clouds Applied to MODIS Radiometric Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2005, 44, 28-38.	1.7	26