

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	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
2	Remote Sensing of Droplet Number Concentration in Warm Clouds: A Review of the Current State of Knowledge and Perspectives. <i>Reviews of Geophysics</i> , 2018, 56, 409-453.	23.0	185
3	Utilizing Spaceborne Radars to Retrieve Dry Snowfall. <i>Journal of Applied Meteorology and Climatology</i> , 2009, 48, 2564-2580.	1.5	121
4	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
5	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
6	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
7	A Shallow Cumuliform Snowfall Census Using Spaceborne Radar. <i>Journal of Hydrometeorology</i> , 2016, 17, 1261-1279.	1.9	91
8	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
9	The Multisensor Advanced Climatology of Liquid Water Path (MAC-LWP). <i>Journal of Climate</i> , 2017, 30, 10193-10210.	3.2	72
10	Uncertainty Analysis for CloudSat Snowfall Retrievals. <i>Journal of Applied Meteorology and Climatology</i> , 2011, 50, 399-418.	1.5	64
11	Development and initial application of the global-through-urban weather research and forecasting model with chemistry (GU-WRF/Chem). <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	63
12	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
13	Pollution from China increases cloud droplet number, suppresses rain over the East China Sea. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	42
14	The GEWEX Water Vapor Assessment archive of water vapour products from satellite observations and reanalyses. <i>Earth System Science Data</i> , 2018, 10, 1093-1117.	9.9	42
15	An Uncertainty Data Set for Passive Microwave Satellite Observations of Warm Cloud Liquid Water Path. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3668-3687.	3.3	36
16	Vertical structure of stratiform marine boundary layer clouds and its impact on cloud albedo. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	35
17	Spatial and temporal variability of snowfall over Greenland from CloudSat observations. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 8101-8121.	4.9	33
18	Decadal simulation and comprehensive evaluation of <sc>CESM</sc>/<sc>CAM</sc>5.1 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

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19	Precipitation regimes over central Greenland inferred from 5 years of ICECAPS observations. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 4715-4735.	4.9	31
20	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
21	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
22	The GEWEX Water Vapor Assessment: Overview and Introduction to Results and Recommendations. <i>Remote Sensing</i> , 2019, 11, 251.	4.0	26
23	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
24	Summer Snowfall Workshop: Scattering Properties of Realistic Frozen Hydrometeors from Simulations and Observations, as well as Defining a New Standard for Scattering Databases. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, ES55-ES58.	3.3	19
25	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
26	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
27	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
28	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
29	Process-Based Model Evaluation Using Surface Energy Budget Observations in Central Greenland. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4777-4796.	3.3	15
30	The Role of Melting Snow in the Ocean Surface Heat Budget. <i>Geophysical Research Letters</i> , 2018, 45, 9782-9789.	4.0	14
31	Sensitivity of 89-190-GHz Microwave Observations to Ice Particle Scattering. <i>Journal of Applied Meteorology and Climatology</i> , 2020, 59, 1195-1215.	1.5	12
32	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
33	Evaluating the diurnal cycle of South Atlantic stratocumulus clouds as observed by MSG SEVIRI. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 13283-13304.	4.9	9
34	Characterization of chlorophyll fluorescence, absorbed photosynthetically active radiation, and reflectance-based vegetation index spectroradiometer measurements. <i>International Journal of Remote Sensing</i> , 2020, 41, 6755-6782.	2.9	7
35	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
36	The Critical Role of Euro-Atlantic Blocking in Promoting Snowfall in Central Greenland. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	6

#	ARTICLE	IF	CITATIONS
37	Summary of the Fourth Cloud Retrieval Evaluation Workshop. Bulletin of the American Meteorological Society, 2015, 96, ES71-ES74.	3.3	5
38	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
39	Seasonal Estimates and Uncertainties of Snow Accumulation from CloudSat Precipitation Retrievals. Atmosphere, 2021, 12, 363.	2.3	3
40	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
41	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