

# Christopher Grassotti

## List of Publications by Year in descending order

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41  
papers

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citations

567281

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477307

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41  
docs citations

41  
times ranked

806  
citing authors

#	ARTICLE	IF	CITATIONS
1	In-Depth Evaluation of MiRS Total Precipitable Water From NOAA-20 ATMS Using Multiple Reference Data Sets. Earth and Space Science, 2022, 9, .	2.6	5
2	Improvement of MiRS Sea Surface Temperature Retrievals Using a Machine Learning Approach. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2022, 15, 1857-1868.	4.9	4
3	Preliminary Development and Testing of an EPS-SG Microwave Sounder Proxy Data Generator Using the NOAA Microwave Integrated Retrieval System. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 3151-3161.	4.9	4
4	Evaluation and blending of ATMS and AMSR2 snow water equivalent retrievals over the conterminous United States. Remote Sensing of Environment, 2021, 254, 112280.	11.0	10
5	Experimental OMPS Radiance Assimilation through One-Dimensional Variational Analysis for Total Column Ozone in the Atmosphere. Remote Sensing, 2021, 13, 3418.	4.0	2
6	How Can Microwave Observations at 23.8 GHz Help in Acquiring Water Vapor in the Atmosphere over Land?. Remote Sensing, 2021, 13, 489.	4.0	6
7	Development of a Machine Learning-Based Radiometric Bias Correction for NOAA's Microwave Integrated Retrieval System (MiRS). Remote Sensing, 2020, 12, 3160.	4.0	13
8	The NOAA Microwave Integrated Retrieval System (MiRS): Validation of Precipitation From Multiple Polar-Orbiting Satellites. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 3019-3031.	4.9	12
9	Precipitation Estimation from the Microwave Integrated Retrieval System (MiRS). Advances in Global Change Research, 2020, , 153-168.	1.6	5
10	The NOAA Microwave Integrated Retrieval System Multiple Satellite Rain Rate Retrieval and Monitoring. , 2019, , .		0
11	NOAA Microwave Integrated Retrieval System (MiRS) Cloud Liquid Water Retrieval and Assessment. , 2018, , .		3
12	Dynamic Inversion of Global Surface Microwave Emissivity Using a 1DVAR Approach. Remote Sensing, 2018, 10, 679.	4.0	9
13	Application of GCOM-W AMSR2 and S-NPP ATMS Hydrological Products to a Flooding Event in the United States. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 3884-3891.	4.9	5
14	Surface Emissivity at Microwaves to Millimeter Waves over Polar Regions: Parameterization and Evaluation with Aircraft Experiments. Journal of Atmospheric and Oceanic Technology, 2017, 34, 1039-1059.	1.3	29
15	GPM Products From the Microwave-Integrated Retrieval System. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2017, 10, 2565-2574.	4.9	11
16	The MIRS GPM precipitation retrieval. , 2016, , .		1
17	A physical approach for a simultaneous retrieval of sounding, surface, hydrometeor, and cryospheric parameters from SNPP/ATMS. Journal of Geophysical Research D: Atmospheres, 2013, 118, 12,600.	3.3	49
18	Land surface microwave emissivities derived from AMSR-E and MODIS measurements with advanced quality control. Journal of Geophysical Research, 2011, 116, .	3.3	52

#	ARTICLE	IF	CITATIONS
19	Subsurface emission effects in AMSR-E measurements: Implications for land surface microwave emissivity retrieval. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	23
20	Assessment of a Variational Inversion System for Rainfall Rate Over Land and Water Surfaces. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 3311-3333.	6.3	27
21	MIRS: An All-Weather 1DVAR Satellite Data Assimilation and Retrieval System. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 3249-3272.	6.3	188
22	The Response of Damaging Winds of a Simulated Tropical Cyclone to Finite-Amplitude Perturbations of Different Variables. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 1924-1937.	1.7	11
23	Extending the Predictability of Hydrometeorological Flood Events Using Radar Rainfall Nowcasting. <i>Journal of Hydrometeorology</i> , 2006, 7, 660-677.	1.9	69
24	Evaluating the effects of image filtering in short-term radar rainfall forecasting for hydrological applications. <i>Meteorological Applications</i> , 2006, 13, 289.	2.1	61
25	Using 4d-VAR to Move a Simulated Tropical Cyclone in a Mesoscale Model. <i>Computers and Mathematics With Applications</i> , 2006, 52, 1193-1204.	2.7	6
26	A Dual Use for Space Solar Power. <i>Water Science and Technology Library</i> , 2006, , 87-120.	0.3	1
27	A 4D-Var study on the potential of weather control and exigent weather forecasting. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2005, 131, 3037-3051.	2.7	13
28	SeaWinds Validation: Effect of Rain as Observed by East Coast Radars. <i>Journal of Atmospheric and Oceanic Technology</i> , 2004, 21, 1364-1377.	1.3	11
29	Feature calibration and alignment to represent model forecast errors: Empirical regularization. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 195-218.	2.7	31
30	Multiple-Timescale Intercomparison of Two Radar Products and Rain Gauge Observations over the Arkansasâ€“Red River Basin. <i>Weather and Forecasting</i> , 2003, 18, 1207-1229.	1.4	28
31	Physically based modeling of QuikSCAT SeaWinds passive microwave measurements for rain detection. <i>Journal of Geophysical Research</i> , 2002, 107, AAC 15-1.	3.3	10
32	Development and Application of a Visibleâ€“Infrared Rain Flag for Scatterometer Data. <i>Journal of Applied Meteorology and Climatology</i> , 1999, 38, 665-676.	1.7	3
33	Calibration and Alignment. <i>Journal of Applied Meteorology and Climatology</i> , 1999, 38, 677-695.	1.7	9
34	A Technique for Assimilating SSM/I Observations of Marine Atmospheric Storms: Tests with ECMWF Analyses. <i>Journal of Applied Meteorology and Climatology</i> , 1996, 35, 1177-1188.	1.7	34
35	Assimilation of SSM/I and GOES Humidity Retrievals with a One-Dimensional Variational Analysis Scheme. <i>Journal of Applied Meteorology and Climatology</i> , 1995, 34, 1536-1550.	1.7	10
36	Toward an Objective Analysis of Rainfall Rate Combining Observations and Short-Term Forecast Model Estimates. <i>Journal of Applied Meteorology and Climatology</i> , 1995, 34, 1962-1977.	1.7	12

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37	Classification-Based Rainfall Estimation Using Satellite Data and Numerical Forecast Model Fields. <i>Journal of Applied Meteorology and Climatology</i> , 1994, 33, 159-178.	1.7	23
38	On Differences in Radiosonde Humidity-Reporting Practices and Their Implications for Numerical Weather Prediction and Remote Sensing. <i>Bulletin of the American Meteorological Society</i> , 1992, 73, 1417-1423.	3.3	50
39	Assessment of the Impact of Simulated Satellite Lidar Wind and Retrieved 183 GHz Water Vapor Observations on a Global Data Assimilation System. <i>Monthly Weather Review</i> , 1990, 118, 2513-2542.	1.4	26
40	A Simulation Study of Satellite Emission Computed Tomography. <i>Journal of Applied Meteorology and Climatology</i> , 1989, 28, 321-342.	1.7	1
41	Venus: Cloud level circulation during 1982 as determined from pioneer cloud photopolarimeter images. <i>Icarus</i> , 1988, 73, 193-211.	2.5	32