

# Christian Kummerow

## List of Publications by Year in descending order

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34  
papers

4,799  
citations

279487

23  
h-index

454577

30  
g-index

34  
all docs

34  
docs citations

34  
times ranked

4005  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Tropical Rainfall Measuring Mission (TRMM) Sensor Package. Journal of Atmospheric and Oceanic Technology, 1998, 15, 809-817.	0.5	1,992
2	The Evolution of the Goddard Profiling Algorithm (GPROF) for Rainfall Estimation from Passive Microwave Sensors. Journal of Applied Meteorology and Climatology, 2001, 40, 1801-1820.	1.7	687
3	The Global Precipitation Measurement (GPM) Mission for Science and Society. Bulletin of the American Meteorological Society, 2017, 98, 1679-1695.	1.7	541
4	A Passive Microwave Technique for Estimating Rainfall and Vertical Structure Information from Space. Part I: Algorithm Description. Journal of Applied Meteorology and Climatology, 1994, 33, 3-18.	1.7	182
5	On the accuracy of the Eddington approximation for radiative transfer in the microwave frequencies. Journal of Geophysical Research, 1993, 98, 2757-2765.	3.3	168
6	Rainfall Climate Regimes: The Relationship of Regional TRMM Rainfall Biases to the Environment. Journal of Applied Meteorology and Climatology, 2006, 45, 434-454.	0.6	152
7	Beamfilling Errors in Passive Microwave Rainfall Retrievals. Journal of Applied Meteorology and Climatology, 1998, 37, 356-370.	1.7	117
8	International Global Precipitation Measurement (GPM) Program and Mission: An Overview. , 2007, , 611-653.		100
9	The Chuva Project: How Does Convection Vary across Brazil?. Bulletin of the American Meteorological Society, 2014, 95, 1365-1380.	1.7	100
10	Microwave radiative transfer through horizontally inhomogeneous precipitating clouds. Journal of Geophysical Research, 1994, 99, 16707.	3.3	82
11	Differences between East and West Pacific Rainfall Systems. Journal of Climate, 2002, 15, 3659-3672.	1.2	78
12	Stratiform and Convective Classification of Rainfall Using SSM/I 85-GHz Brightness Temperature Observations. Journal of Atmospheric and Oceanic Technology, 1997, 14, 570-575.	0.5	63
13	A Self-Consistency Approach to Improve Microwave Rainfall Rate Estimation from Space. Journal of Applied Meteorology and Climatology, 1989, 28, 869-884.	1.7	56
14	A Passive Microwave Technique for Estimating Rainfall and Vertical Structure Information from Space. Part II: Applications to SSM/I Data. Journal of Applied Meteorology and Climatology, 1994, 33, 19-34.	1.7	54
15	Combined Use of the Radar and Radiometer of TRMM to Estimate the Influence of Drop Size Distribution on Rain Retrievals. Journal of Applied Meteorology and Climatology, 2000, 39, 2103-2114.	1.7	46
16	The Contribution of Rain Gauges in the Calibration of the IMERG Product: Results from the First Validation over Spain. Journal of Hydrometeorology, 2020, 21, 161-182.	0.7	43
17	The emergence of inversion-type profile algorithms for estimation of precipitation from satellite passive microwave measurements. International Journal of Remote Sensing, 1994, 11, 211-242.	1.1	39
18	Improved Geolocation and Earth Incidence Angle Information for a Fundamental Climate Data Record of the SSM/I Sensors. IEEE Transactions on Geoscience and Remote Sensing, 2013, 51, 1504-1513.	2.7	34

#	ARTICLE	IF	CITATIONS
19	Quantifying Global Uncertainties in a Simple Microwave Rainfall Algorithm. <i>Journal of Atmospheric and Oceanic Technology</i> , 2006, 23, 23-37.	0.5	33
20	Determination of Precipitation Profiles from Airborne Passive Microwave Radiometric Measurements. <i>Journal of Atmospheric and Oceanic Technology</i> , 1991, 8, 148-158.	0.5	32
21	An Evaluation of the Proposed Mechanism of the Adaptive Infrared Iris Hypothesis Using TRMM VIRS and PR Measurements. <i>Journal of Climate</i> , 2005, 18, 4185-4194.	1.2	31
22	Parametric Rainfall Retrieval Algorithms for Passive Microwave Radiometers. <i>Journal of Applied Meteorology and Climatology</i> , 2003, 42, 1480-1496.	1.7	30
23	Fundamental Climate Data Records of Microwave Brightness Temperatures. <i>Remote Sensing</i> , 2018, 10, 1306.	1.8	29
24	The Effects of Rainfall Inhomogeneity on Climate Variability of Rainfall Estimated from Passive Microwave Sensors. <i>Journal of Atmospheric and Oceanic Technology</i> , 2004, 21, 624-638.	0.5	28
25	Impacts of A Priori Databases Using Six WRF Microphysics Schemes on Passive Microwave Rainfall Retrievals. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 2367-2381.	0.5	24
26	Enhancing PMW Satellite Precipitation Estimation: Detecting Convective Class. <i>Journal of Atmospheric and Oceanic Technology</i> , 2019, 36, 2349-2363.	0.5	16
27	Status of TRMM Monthly Estimates of Tropical Precipitation. , 2003, , 223-234.		12
28	Long-Term Arctic Snow/Ice Interface Temperature from Special Sensor for Microwave Imager Measurements. <i>Remote Sensing</i> , 2018, 10, 1795.	1.8	11
29	Toward a Global Map of Raindrop Size Distributions. Part I: Rain-Type Classification and Its Implications for Validating Global Rainfall Products. <i>Journal of Hydrometeorology</i> , 2004, 5, 831-849.	0.7	8
30	Comparison of TRMM Microwave Imager Rainfall Datasets from NASA and JAXA. <i>Journal of Hydrometeorology</i> , 2020, 21, 377-397.	0.7	6
31	Comparing rain retrievals from GPROF with ECMWF 1D $\epsilon$ Var products. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2012, 138, 1852-1866.	1.0	3
32	Improved Goddard profiling (GPROF) database over the Korean Peninsula and its impact on TRMM TMI rainfall. , 2010, , .		1
33	A Clustering Approach to Compare Cloud Model Simulations to Satellite Observations. <i>Journal of Climate</i> , 2012, 25, 7896-7916.	1.2	1
34	A radar profiling algorithm designed for use with multiresolution radiometer measurements. , 2010, , .		0