

# Carl A Mears

## List of Publications by Year in descending order

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Version: 2024-02-01

33  
papers

3,504  
citations

201674

27  
h-index

395702

33  
g-index

37  
all docs

37  
docs citations

37  
times ranked

4121  
citing authors

#	ARTICLE	IF	CITATIONS
1	How Much More Rain Will Global Warming Bring?. <i>Science</i> , 2007, 317, 233-235.	12.6	820
2	Volcanic contribution to decadal changes in tropospheric temperature. <i>Nature Geoscience</i> , 2014, 7, 185-189.	12.9	364
3	An update of observed stratospheric temperature trends. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	260
4	A Reanalysis of the MSU Channel 2 Tropospheric Temperature Record. <i>Journal of Climate</i> , 2003, 16, 3650-3664.	3.2	240
5	UNCERTAINTIES IN CLIMATE TRENDS: Lessons from Upper-Air Temperature Records. <i>Bulletin of the American Meteorological Society</i> , 2005, 86, 1437-1442.	3.3	157
6	The Effect of Diurnal Correction on Satellite-Derived Lower Tropospheric Temperature. <i>Science</i> , 2005, 309, 1548-1551.	12.6	157
7	Construction of the Remote Sensing Systems V3.2 Atmospheric Temperature Records from the MSU and AMSU Microwave Sounders. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 1040-1056.	1.3	154
8	Identifying human influences on atmospheric temperature. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 26-33.	7.1	117
9	The mystery of recent stratospheric temperature trends. <i>Nature</i> , 2012, 491, 692-697.	27.8	106
10	Human influence on the seasonal cycle of tropospheric temperature. <i>Science</i> , 2018, 361, .	12.6	103
11	Global Water Vapor Trend from 1988 to 2011 and Its Diurnal Asymmetry Based on GPS, Radiosonde, and Microwave Satellite Measurements. <i>Journal of Climate</i> , 2016, 29, 5205-5222.	3.2	86
12	Human and natural influences on the changing thermal structure of the atmosphere. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 17235-17240.	7.1	84
13	Assessing uncertainty in estimates of atmospheric temperature changes from MSU and AMSU using a Monte-Carlo estimation technique. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	73
14	Comparing Tropospheric Warming in Climate Models and Satellite Data. <i>Journal of Climate</i> , 2017, 30, 373-392.	3.2	72
15	Relationship between temperature and precipitable water changes over tropical oceans. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	67
16	A Near-Real-Time Version of the Cross-Calibrated Multiplatform (CCMP) Ocean Surface Wind Velocity Data Set. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 6997-7010.	2.6	67
17	Construction of the RSS V3.2 Lower-Tropospheric Temperature Dataset from the MSU and AMSU Microwave Sounders. <i>Journal of Atmospheric and Oceanic Technology</i> , 2009, 26, 1493-1509.	1.3	60
18	Sensitivity of Satellite-Derived Tropospheric Temperature Trends to the Diurnal Cycle Adjustment. <i>Journal of Climate</i> , 2016, 29, 3629-3646.	3.2	52

#	ARTICLE	IF	CITATIONS
19	Troposphere&Stratosphere Temperature Trends Derived From Satellite Data Compared With Ensemble Simulations From WACCM. Journal of Geophysical Research D: Atmospheres, 2017, 122, 9651-9667.	3.3	51
20	Observed multivariable signals of late 20th and early 21st century volcanic activity. Geophysical Research Letters, 2015, 42, 500-509.	4.0	50
21	Intercomparison of total precipitable water measurements made by satellite&borne microwave radiometers and ground&based GPS instruments. Journal of Geophysical Research D: Atmospheres, 2015, 120, 2492-2504.	3.3	46
22	Stratospheric temperature changes during the satellite era. Journal of Geophysical Research D: Atmospheres, 2016, 121, 664-681.	3.3	44
23	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
24	Causes of differences in model and satellite tropospheric warming rates. Nature Geoscience, 2017, 10, 478-485.	12.9	40
25	A high-quality, homogenized, global, long-term (1993-2008) DORIS precipitable water data set for climate monitoring and model verification. Journal of Geophysical Research D: Atmospheres, 2014, 119, 7209-7230.	3.3	38
26	Comparison of global observations and trends of total precipitable water derived from microwave radiometers and COSMIC radio occultation from 2006 to 2013. Atmospheric Chemistry and Physics, 2018, 18, 259-274.	4.9	38
27	A Satellite-Derived Lower-Tropospheric Atmospheric Temperature Dataset Using an Optimized Adjustment for Diurnal Effects. Journal of Climate, 2017, 30, 7695-7718.	3.2	33
28	Construction and Uncertainty Estimation of a Satellite&Derived Total Precipitable Water Data Record Over the World's Oceans. Earth and Space Science, 2018, 5, 197-210.	2.6	20
29	Radiosondes Show That After Decades of Cooling, the Lower Stratosphere Is Now Warming. Journal of Geophysical Research D: Atmospheres, 2018, 123, 12,509.	3.3	18
30	Assessing the value of Microwave Sounding Unit&quot;radiosonde comparisons in ascertaining errors in climate data records of tropospheric temperatures. Journal of Geophysical Research, 2012, 117, .	3.3	13
31	Assessment of CYGNSS Wind Speed Retrievals in Tropical Cyclones. Remote Sensing, 2021, 13, 5110.	4.0	12
32	Estimated errors in retrievals of ocean parameters from SSMIS. Journal of Geophysical Research D: Atmospheres, 2015, 120, 5816-5830.	3.3	9
33	Precipitable water characteristics during the 2013 Colorado flood using ground-based GPS measurements. Atmospheric Measurement Techniques, 2017, 10, 4055-4066.	3.1	9