

Hartmut Aumann

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

933
citations

933447

10
h-index

996975

15
g-index

23
all docs

23
docs citations

23
times ranked

1079
citing authors

#	ARTICLE	IF	CITATIONS
1	AIRS. Bulletin of the American Meteorological Society, 2006, 87, 911-926.	3.3	595
2	Three years of Atmospheric Infrared Sounder radiometric calibration validation using sea surface temperatures. Journal of Geophysical Research, 2006, 111, .	3.3	68
3	AIRS hyper-spectral measurements for climate research: Carbon dioxide and nitrous oxide effects. Geophysical Research Letters, 2005, 32, .	4.0	38
4	Frequency of deep convective clouds in the tropical zone from 10 years of AIRS data. Atmospheric Chemistry and Physics, 2013, 13, 10795-10806.	4.9	35
5	Evaluation of Radiative Transfer Models With Clouds. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6142-6157.	3.3	28
6	Increased Frequency of Extreme Tropical Deep Convection: AIRS Observations and Climate Model Predictions. Geophysical Research Letters, 2018, 45, 13,530.	4.0	27
7	Frequency of severe storms and global warming. Geophysical Research Letters, 2008, 35, .	4.0	22
8	Deep convective clouds at the tropopause. Atmospheric Chemistry and Physics, 2011, 11, 1167-1176.	4.9	21
9	AIRS observations of deep convective clouds. , 2006, 6301, 115.		19
10	Radiometric Stability Validation of 17 Years of AIRS Data Using Sea Surface Temperatures. Geophysical Research Letters, 2019, 46, 12504-12510.	4.0	17
11	SI-Traceability and Measurement Uncertainty of the Atmospheric Infrared Sounder Version 5 Level 1B Radiances. Remote Sensing, 2020, 12, 1338.	4.0	16
12	Seasonal correlations of SST, water vapor, and convective activity in tropical oceans: A new hyperspectral data set for climate model testing. Geophysical Research Letters, 2007, 34, .	4.0	9
13	Diurnal Cycle Variability of Surface Temperature Inferred From AIRS Data. Journal of Geophysical Research D: Atmospheres, 2017, 122, 10,928-10,938.	3.3	9
14	Application of Atmospheric Infrared Sounder (AIRS) data to climate research. , 2004, , .		8
15	On the Surface Temperature Sensitivity of the Reflected Shortwave, Outgoing Longwave, and Net Incident Radiation. Journal of Climate, 2012, 25, 6585-6593.	3.2	6
16	Radiometric stability in 16 years of AIRS hyperspectral infrared data. , 2018, , .		4
17	Updates to the absolute radiometric accuracy of the AIRS on Aqua. , 2018, , .		3
18	Evaluating the Absolute Calibration Accuracy and Stability of AIRS Using the CMC SST. Remote Sensing, 2020, 12, 2743.	4.0	2

#	ARTICLE	IF	CITATIONS
19	Evaluation of AIRS and CrIS SST Measurements Relative to Three Globally Gridded SST Products Between 2013 and 2019. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 8094-8102.	6.3	2
20	Atmospheric Infrared Sounder data for the evaluation of upper tropospheric water maps for short-term weather forecasting. , 2005, 5890, 196.		1
21	Correlation between the Sea Surface Temperature and the frequency of severe storms in the tropical oceans using seven years of AIRS data. , 2010, , .		0