

# Tristan L'Ecuyer

## List of Publications by Year in descending order

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180  
papers

9,878  
citations

36303

51  
h-index

40979

93  
g-index

205  
all docs

205  
docs citations

205  
times ranked

7826  
citing authors

#	ARTICLE	IF	CITATIONS
1	Imaging Considerations From a Geostationary Orbit Using the Short Wavelength Side of the Mid-Infrared Water Vapor Absorption Band. <i>Earth and Space Science</i> , 2022, 9, .	2.6	0
2	Relating snowfall observations to Greenland ice sheet mass changes: an atmospheric circulation perspective. <i>Cryosphere</i> , 2022, 16, 435-450.	3.9	1
3	Retrieval of Surface Spectral Emissivity in Polar Regions Based on the Optimal Estimation Method. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	3
4	Environmental Response in Coupled Energy and Water Cloud Impact Parameters Derived from A-Train Satellites, ERA-Interim, and MERRA-2. <i>Journal of Applied Meteorology and Climatology</i> , 2022, 61, 261-276.	1.5	0
5	The Global Nature of Early-Afternoon and Late-Night Convection Through the Eyes of the A-Train. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	2
6	Climate Outcomes of Earth-similar Worlds as a Function of Obliquity and Rotation Rate. <i>Astrophysical Journal</i> , 2022, 933, 62.	4.5	3
7	The surface longwave cloud radiative effect derived from space lidar observations. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 3893-3923.	3.1	1
8	An overview of the ORACLES (ObseRvations of Aerosols above CLouds and their intEractionS) project: aerosol-cloud-radiation interactions in the southeast Atlantic basin. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 1507-1563.	4.9	97
9	Uncertainty in Forced and Natural Arctic Solar Absorption Variations in CMIP6 Models. <i>Journal of Climate</i> , 2021, 34, 931-948.	3.2	6
10	What millimeter-wavelength radar reflectivity reveals about snowfall: an information-centric analysis. <i>Atmospheric Measurement Techniques</i> , 2021, 14, 869-888.	3.1	14
11	Joint cloud water path and rainwater path retrievals from airborne ORACLES observations. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 5513-5532.	4.9	4
12	Inference of Precipitation in Warm Stratiform Clouds Using Remotely Sensed Observations of the Cloud Top Droplet Size Distribution. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092547.	4.0	5
13	High-latitude precipitation: Snowfall regimes at two distinct sites in Scandinavia. <i>Journal of Applied Meteorology and Climatology</i> , 2021, , .	1.5	2
14	The Polar Radiant Energy in the Far Infrared Experiment: A New Perspective on Polar Longwave Energy Exchanges. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E1431-E1449.	3.3	14
15	The Influence of Atmospheric Rivers on Cold-Season Precipitation in the Upper Great Lakes Region. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034754.	3.3	2
16	Vertical structure of cloud radiative heating in the tropics: confronting the EC-Earth v3.3.1/3P model with satellite observations. <i>Geoscientific Model Development</i> , 2021, 14, 4087-4101.	3.6	2
17	Ground-based far-infrared emissivity measurements with the University of Wisconsin absolute radiance interferometer (ARI). , 2021, , .		0
18	Global evidence of aerosol-induced invigoration in marine cumulus clouds. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 15103-15114.	4.9	4

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19	Evaluation of CloudSat Radiative Kernels Using ARM and CERES Observations and ERA5 Reanalysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034510.	3.3	0
20	A Cloudier Picture of Ice-Albedo Feedback in CMIP6 Models. <i>Frontiers in Earth Science</i> , 2021, 9, .	1.8	2
21	Emerging Trends in Arctic Solar Absorption. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	7
22	Arctic Snowfall from CloudSat Observations and Reanalyses. <i>Journal of Climate</i> , 2020, 33, 2093-2109.	3.2	13
23	Sugar, gravel, fish and flowers: Mesoscale cloud patterns in the trade winds. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2020, 146, 141-152.	2.7	78
24	Arctic Clouds and Precipitation in the Community Earth System Model Version 2. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032521.	3.3	17
25	Reducing the aerosol forcing uncertainty using observational constraints on warm rain processes. <i>Science Advances</i> , 2020, 6, eaaz6433.	10.3	33
26	Quantifying cloud adjustments and the radiative forcing due to aerosol-cloud interactions in satellite observations of warm marine clouds. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 6225-6241.	4.9	12
27	CloudSat-Inferred Vertical Structure of Snowfall Over the Antarctic Continent. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031399.	3.3	10
28	Global Snowfall Detection and Measurement. <i>Advances in Global Change Research</i> , 2020, , 699-716.	1.6	10
29	Influence of gravity wave temperature anomalies and their vertical gradients on cirrus clouds in the tropical tropopause layer – a satellite-based view. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 12499-12514.	4.9	15
30	How much snow falls in the world's mountains? A first look at mountain snowfall estimates in A-train observations and reanalyses. <i>Cryosphere</i> , 2020, 14, 3195-3207.	3.9	17
31	A Relational Vulnerability Analytic: Exploring Hybrid Methodologies for Human Dimensions of Climate Change Research in the Himalayas. , 2020, , 493-524.		1
32	Satellite observations of snowfall regimes over the Greenland Ice Sheet. <i>Cryosphere</i> , 2020, 14, 4379-4404.	3.9	11
33	Assessment of Sampling Sufficiency for Low-Cost Satellite Missions: Application to PREFIRE. <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 2283-2298.	1.3	3
34	Status of the CloudSat Mission. <i>Advances in Global Change Research</i> , 2020, , 25-43.	1.6	3
35	Estimation of Snowfall Properties at a Mountainous Site in Norway Using Combined Radar and In Situ Microphysical Observations. <i>Journal of Applied Meteorology and Climatology</i> , 2019, 58, 1337-1352.	1.5	13
36	Measuring Global Ocean Heat Content to Estimate the Earth Energy Imbalance. <i>Frontiers in Marine Science</i> , 2019, 6, .	2.5	123

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37	Role of Latent Heating Vertical Distribution in the Formation of the Tropical Cold Trap. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7836-7851.	3.3	3
38	Snowfall distribution and its response to the Arctic Oscillation: an evaluation of HighResMIP models in the Arctic using CPR/CloudSat observations. <i>Geoscientific Model Development</i> , 2019, 12, 3759-3772.	3.6	9
39	Reassessing the Effect of Cloud Type on Earth's Energy Balance in the Age of Active Spaceborne Observations. Part I: Top of Atmosphere and Surface. <i>Journal of Climate</i> , 2019, 32, 6197-6217.	3.2	46
40	Reassessing the Effect of Cloud Type on Earth's Energy Balance in the Age of Active Spaceborne Observations. Part II: Atmospheric Heating. <i>Journal of Climate</i> , 2019, 32, 6219-6236.	3.2	23
41	The Vertical Structure of Radiative Heating Rates: A Multimodel Evaluation Using A-Train Satellite Observations. <i>Journal of Climate</i> , 2019, 32, 1573-1590.	3.2	14
42	The Observed Structure and Precipitation Characteristics of Southeast Atlantic Stratocumulus from Airborne Radar during ORACLES 2016-17. <i>Journal of Applied Meteorology and Climatology</i> , 2019, 58, 2197-2215.	1.5	11
43	New Estimates of Aerosol Direct Radiative Effects and Forcing From A-Train Satellite Observations. <i>Geophysical Research Letters</i> , 2019, 46, 8338-8346.	4.0	23
44	Quantifying variations in shortwave aerosol-cloud radiation interactions using local meteorology and cloud state constraints. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 6251-6268.	4.9	23
45	An Interactive Online Educational Applet for Multiple Frequencies of Radar Observations. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 747-752.	3.3	1
46	How Does Cloud Overlap Affect the Radiative Heating in the Tropical Upper Troposphere/Lower Stratosphere?. <i>Geophysical Research Letters</i> , 2019, 46, 5623-5631.	4.0	6
47	Observation-Based Radiative Kernels From CloudSat/CALIPSO. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 5431-5444.	3.3	26
48	How Does Ground Clutter Affect CloudSat Snowfall Retrievals Over Ice Sheets?. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2019, 16, 342-346.	3.1	30
49	Terran World Spectral Simulator. <i>Publications of the Astronomical Society of the Pacific</i> , 2019, 131, 054502.	3.1	0
50	Evaluation of CloudSat snowfall rate profiles by a comparison with in situ micro-rain radar observations in East Antarctica. <i>Cryosphere</i> , 2019, 13, 943-954.	3.9	19
51	How Much Do Clouds Mask the Impacts of Arctic Sea Ice and Snow Cover Variations? Different Perspectives from Observations and Reanalyses. <i>Atmosphere</i> , 2019, 10, 12.	2.3	21
52	The Polar Radiant Energy in the Far Infrared Experiment (Prefire)., 2019, , .		2
53	The Observed Influence of Tropical Convection on the Saharan Dust Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 10896-10912.	3.3	8
54	CloudSat and CALIPSO within the A-Train: Ten Years of Actively Observing the Earth System. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 569-581.	3.3	171

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55	Estimating precipitation susceptibility in warm marine clouds using multi-sensor aerosol and cloud products from A-Train satellites. <i>Atmospheric Chemistry and Physics</i> , 2018, 18, 1763-1783.	4.9	18
56	Cloud and radiative heating profiles associated with the boreal summer intraseasonal oscillation. <i>Climate Dynamics</i> , 2018, 50, 1485-1494.	3.8	6
57	Assessing the Coupled Influences of Clouds on the Atmospheric Energy and Water Cycles in Reanalyses with A-Train Observations. <i>Journal of Climate</i> , 2018, 31, 8241-8264.	3.2	6
58	Scale-Aware and Definition-Aware Evaluation of Modeled Near-Surface Precipitation Frequency Using CloudSat Observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4294-4309.	3.3	50
59	CloudSat snowfall estimates over Antarctica and the Southern Ocean: An assessment of independent retrieval methodologies and multi-year snowfall analysis. <i>Atmospheric Research</i> , 2018, 213, 121-135.	4.1	49
60	Global Character of Latent Heat Release in Oceanic Warm Rain Systems. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4797-4817.	3.3	16
61	Using CALIOP to estimate cloud-field base height and its uncertainty: the Cloud Base Altitude Spatial Extrapolator (CBASE) algorithm and dataset. <i>Earth System Science Data</i> , 2018, 10, 2279-2293.	9.9	28
62	POLAR RADIANT ENERGY IN THE FAR-INFRARED EXPERIMENT (PREFIRE). , 2018, , .		0
63	Evaluation of current and projected Antarctic precipitation in CMIP5 models. <i>Climate Dynamics</i> , 2017, 48, 225-239.	3.8	125
64	Response of the lower troposphere to moisture intrusions into the Arctic. <i>Geophysical Research Letters</i> , 2017, 44, 2527-2536.	4.0	58
65	Evaluation of Antarctic snowfall in global meteorological reanalyses. <i>Atmospheric Research</i> , 2017, 190, 104-112.	4.1	42
66	The role of cloud phase in Earth's radiation budget. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 2559-2578.	3.3	178
67	Information content of visible and midinfrared radiances for retrieving tropical ice cloud properties. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 4944-4966.	3.3	7
68	Polar clouds and radiation in satellite observations, reanalyses, and climate models. <i>Geophysical Research Letters</i> , 2017, 44, 3355-3364.	4.0	68
69	Observational Evidence Linking Arctic Supercooled Liquid Cloud Biases in CESM to Snowfall Processes. <i>Journal of Climate</i> , 2017, 30, 4477-4495.	3.2	45
70	An Observational View of Relationships Between Moisture Aggregation, Cloud, and Radiative Heating Profiles. <i>Surveys in Geophysics</i> , 2017, 38, 1237-1254.	4.6	11
71	Cloud occurrences and cloud radiative effects (CREs) from CERES-CALIPSO-CloudSat-MODIS (CCCM) and CloudSat radar-radar (RL) products. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8852-8884.	3.3	24
72	Saharan dust, convective lofting, aerosol enhancement zones, and potential impacts on ice nucleation in the tropical upper troposphere. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8833-8851.	3.3	16

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73	Observing Convective Aggregation. <i>Surveys in Geophysics</i> , 2017, 38, 1199-1236.	4.6	102
74	Evaluation of radiative heating rate profiles in eight GCMs using A-train satellite observations. <i>AIP Conference Proceedings</i> , 2017, , .	0.4	3
75	Implications of Warm Rain in Shallow Cumulus and Congestus Clouds for Large-Scale Circulations. <i>Surveys in Geophysics</i> , 2017, 38, 1257-1282.	4.6	17
76	Observational evidence for the vertical redistribution and scavenging of Saharan dust by tropical cyclones. <i>Geophysical Research Letters</i> , 2017, 44, 6421-6430.	4.0	10
77	The sensitivity of snowfall to weather states over Sweden. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 3249-3263.	3.1	6
78	A variational technique to estimate snowfall rate from coincident radar, snowflake, and fall-speed observations. <i>Atmospheric Measurement Techniques</i> , 2017, 10, 2557-2571.	3.1	21
79	Observing Convective Aggregation. <i>Space Sciences Series of ISSI</i> , 2017, , 27-64.	0.0	5
80	Implications of Warm Rain in Shallow Cumulus and Congestus Clouds for Large-Scale Circulations. <i>Space Sciences Series of ISSI</i> , 2017, , 85-110.	0.0	2
81	How Frequent is Precipitation over the Contiguous United States? Perspectives from Ground-Based and Spaceborne Radars. <i>Journal of Hydrometeorology</i> , 2017, 18, 1657-1672.	1.9	10
82	Correction to: An Observational View of Relationships Between Moisture Aggregation, Cloud, and Radiative Heating Profiles. <i>Space Sciences Series of ISSI</i> , 2017, , 83-83.	0.0	0
83	Recent Advances in Arctic Cloud and Climate Research. <i>Current Climate Change Reports</i> , 2016, 2, 159-169.	8.6	120
84	Responses of Tropical Ocean Clouds and Precipitation to the Large-Scale Circulation: Atmospheric-Water-Budget-Related Phase Space and Dynamical Regimes. <i>Journal of Climate</i> , 2016, 29, 7127-7143.	3.2	10
85	Considering the radiative effects of snow on tropical Pacific Ocean radiative heating profiles in contemporary GCMs using A-train observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 1621-1636.	3.3	26
86	A Shallow Cumuliform Snowfall Census Using Spaceborne Radar. <i>Journal of Hydrometeorology</i> , 2016, 17, 1261-1279.	1.9	91
87	Arctic Observation and Reanalysis Integrated System: A New Data Product for Validation and Climate Study. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 907-916.	3.3	41
88	Toward an Algorithm for Estimating Latent Heat Release in Warm Rain Systems. <i>Journal of Atmospheric and Oceanic Technology</i> , 2016, 33, 1309-1329.	1.3	22
89	Clouds enhance Greenland ice sheet meltwater runoff. <i>Nature Communications</i> , 2016, 7, 10266.	12.8	164
90	Pixel-scale assessment and uncertainty analysis of AIRS and MODIS ice cloud optical thickness and effective radius. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 11,669.	3.3	21

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91	The vertical structure of cloud radiative heating over the Indian subcontinent during summer monsoon. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 11557-11570.	4.9	17
92	The Earth's energy balance. <i>Atmospheric Research</i> , 2015, 166, 195-203.	4.1	49
93	The Observed State of the Water Cycle in the Early Twenty-First Century. <i>Journal of Climate</i> , 2015, 28, 8289-8318.	3.2	230
94	Microphysical Constraints on Millimeter-Wavelength Scattering Properties of Snow Particles. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 909-931.	1.5	37
95	The Observed State of the Energy Budget in the Early Twenty-First Century. <i>Journal of Climate</i> , 2015, 28, 8319-8346.	3.2	160
96	Impacts of Cloud Droplet Nucleating Aerosols on Shallow Tropical Convection. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 1369-1385.	1.7	49
97	The Role of Clouds in Modulating Global Aerosol Direct Radiative Effects in Spaceborne Active Observations and the Community Earth System Model. <i>Journal of Climate</i> , 2015, 28, 2986-3003.	3.2	30
98	Overview of Temporal Experiment for Storms and Tropical Systems (TEMPEST) CubeSat constellation mission. , 2015, , .		25
99	A Global Assessment of the Spatial Distribution of Precipitation Occurrence. <i>Journal of Applied Meteorology and Climatology</i> , 2015, 54, 2179-2197.	1.5	16
100	Intercomparison of snowfall estimates derived from the CloudSat Cloud Profiling Radar and the ground-based weather radar network over Sweden. <i>Atmospheric Measurement Techniques</i> , 2015, 8, 5009-5021.	3.1	48
101	Aerosol impacts on drizzle properties in warm clouds from ARM Mobile Facility maritime and continental deployments. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 4136-4148.	3.3	38
102	Estimating snow microphysical properties using collocated multisensor observations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 8941-8961.	3.3	87
103	Observations of aerosol-induced convective invigoration in the tropical east Atlantic. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 3963-3975.	3.3	55
104	WRF-SBM Simulations of Melting-Layer Structure in Mixed-Phase Precipitation Events Observed during LPVEx. <i>Journal of Applied Meteorology and Climatology</i> , 2014, 53, 2710-2731.	1.5	26
105	How much snow falls on the Antarctic ice sheet?. <i>Cryosphere</i> , 2014, 8, 1577-1587.	3.9	124
106	Local Balance and Variability of Atmospheric Heat Budget over Oceans: Observation and Reanalysis-Based Estimates. <i>Journal of Climate</i> , 2014, 27, 893-913.	3.2	4
107	A Comparison of Precipitation Occurrence from the NCEP Stage IV QPE Product and the CloudSat Cloud Profiling Radar. <i>Journal of Hydrometeorology</i> , 2014, 15, 444-458.	1.9	81
108	Reconciling Ground-Based and Space-Based Estimates of the Frequency of Occurrence and Radiative Effect of Clouds around Darwin, Australia. <i>Journal of Applied Meteorology and Climatology</i> , 2014, 53, 456-478.	1.5	44

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109	A Mechanism of Tropical Convection Inferred from Observed Variability in the Moist Static Energy Budget. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 3747-3766.	1.7	36
110	Observational constraints on Arctic Ocean clouds and radiative fluxes during the early 21st century. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 7219-7236.	3.3	114
111	Influence of Ice Particle Surface Roughening on the Global Cloud Radiative Effect. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 2794-2807.	1.7	72
112	Characterizing and understanding radiation budget biases in CMIP3/CMIP5 GCMs, contemporary GCM, and reanalysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8166-8184.	3.3	127
113	Radiative heating characteristics of Earth's cloudy atmosphere from vertically resolved active sensors. <i>Geophysical Research Letters</i> , 2013, 40, 624-630.	4.0	56
114	A satellite perspective on cloud water to rain water conversion rates and relationships with environmental conditions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 6643-6650.	3.3	19
115	GPM Satellite Simulator over Ground Validation Sites. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1653-1660.	3.3	59
116	A Multisensor Perspective on the Radiative Impacts of Clouds and Aerosols. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 853-871.	1.5	169
117	Low cloud precipitation climatology in the southeastern Pacific marine stratocumulus region using CloudSat. <i>Environmental Research Letters</i> , 2013, 8, 014027.	5.2	39
118	Diagnosis of regime-dependent cloud simulation errors in CMIP5 models using <i>Train</i> satellite observations and reanalysis data. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2762-2780.	3.3	90
119	Characterization of video disdrometer uncertainties and impacts on estimates of snowfall rate and radar reflectivity. <i>Atmospheric Measurement Techniques</i> , 2013, 6, 3635-3648.	3.1	47
120	Evaluation of cloud and water vapor simulations in CMIP5 climate models using NASA <i>Train</i> satellite observations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	316
121	An update on Earth's energy balance in light of the latest global observations. <i>Nature Geoscience</i> , 2012, 5, 691-696.	12.9	703
122	Constraining cloud lifetime effects of aerosols using <i>Train</i> satellite observations. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	117
123	The Global Character of the Flux of Downward Longwave Radiation. <i>Journal of Climate</i> , 2012, 25, 2329-2340.	3.2	99
124	The impact of precipitating ice and snow on the radiation balance in global climate models. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	66
125	Investigation of the 2006 drought and 2007 flood extremes at the Southern Great Plains through an integrative analysis of observations. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	64
126	The retrieval of warm rain from CloudSat. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	129



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127	Combining space-based active and passive microwave observations to improve global snowfall estimates. , 2011, , .		0
128	Vertical Diabatic Heating Structure of the MJO: Intercomparison between Recent Reanalyses and TRMM Estimates. Monthly Weather Review, 2011, 139, 3208-3223.	1.4	84
129	Detecting the Ratio of Rain and Cloud Water in Low-Latitude Shallow Marine Clouds. Journal of Applied Meteorology and Climatology, 2011, 50, 419-432.	1.5	62
130	Equatorial Asymmetry of the East Pacific ITCZ: Observational Constraints on the Underlying Processes. Journal of Climate, 2011, 24, 1784-1800.	3.2	25
131	Touring the Atmosphere Aboard the A-Train. AIP Conference Proceedings, 2011, , .	0.4	10
132	Improving Estimates of the Earth's Radiation Budget with Multispectral and Hyperspectral Satellite Observations. , 2011, , .		0
133	Touring the atmosphere aboard the A-Train. Physics Today, 2010, 63, 36-41.	0.3	219
134	Diurnal Cycle of Convection during the 2004 North American Monsoon Experiment. Journal of Climate, 2010, 23, 1060-1078.	3.2	25
135	Observed Self-Similarity of Precipitation Regimes over the Tropical Oceans. Journal of Climate, 2010, 23, 2686-2698.	3.2	19
136	The Southeast Pacific Warm Band and Double ITCZ. Journal of Climate, 2010, 23, 1189-1208.	3.2	20
137	The Evaluation of CloudSat and CALIPSO Ice Microphysical Products Using Ground-Based Cloud Radar and Lidar Observations. Journal of Atmospheric and Oceanic Technology, 2010, 27, 793-810.	1.3	59
138	Impact of Cloud-Nucleating Aerosols in Cloud-Resolving Model Simulations of Warm-Rain Precipitation in the East China Sea. Journals of the Atmospheric Sciences, 2010, 67, 3916-3930.	1.7	27
139	Estimates of Tropical Diabatic Heating Profiles: Commonalities and Uncertainties. Journal of Climate, 2010, 23, 542-558.	3.2	73
140	CloudSat Precipitation Profiling Algorithm's Model Description. Journal of Applied Meteorology and Climatology, 2010, 49, 991-1003.	1.5	49
141	The Distribution of Rainfall over Oceans from Spaceborne Radars. Journal of Applied Meteorology and Climatology, 2010, 49, 535-543.	1.5	93
142	A 10-Year Climatology of Tropical Radiative Heating and Its Vertical Structure from TRMM Observations. Journal of Climate, 2010, 23, 519-541.	3.2	41
143	MJO Signals in Latent Heating: Results from TRMM Retrievals. Journals of the Atmospheric Sciences, 2010, 67, 3488-3508.	1.7	39
144	Evaluation of midlatitude clouds in a large-scale high-resolution simulation using CloudSat observations. Journal of Geophysical Research, 2010, 115, .	3.3	15

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145	Dreary state of precipitation in global models. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	533
146	<i>CloudSat</i> Precipitation Profiling Algorithmâ€™ Model Description. <i>Journal of Applied Meteorology and Climatology</i> , 2010, 49, 991-1003.	1.5	1
147	Spectral Retrieval of Latent Heating Profiles from TRMM PR Data. Part IV: Comparisons of Lookup Tables from Two- and Three-Dimensional Cloud-Resolving Model Simulations. <i>Journal of Climate</i> , 2009, 22, 5577-5594.	3.2	53
148	Combining Satellite Microwave Radiometer and Radar Observations to Estimate Atmospheric Heating Profiles. <i>Journal of Climate</i> , 2009, 22, 6356-6376.	3.2	30
149	Vertical Heating Structures Associated with the MJO as Characterized by TRMM Estimates, ECMWF Reanalyses, and Forecasts: A Case Study during 1998/99 Winter. <i>Journal of Climate</i> , 2009, 22, 6001-6020.	3.2	29
150	Rainfall retrieval over the ocean with spaceborne Wâ€band radar. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	279
151	Global observations of aerosol impacts on precipitation occurrence in warm maritime clouds. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	80
152	How often does it rain over the global oceans? The perspective from CloudSat. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	68
153	An operational retrieval algorithm for determining aerosol optical properties in the ultraviolet. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	19
154	Evidence for the impact of aerosols on the onset and microphysical properties of rainfall from a combination of satellite observations and cloudâ€™resolving model simulations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	51
155	The contribution of cloud and radiation anomalies to the 2007 Arctic sea ice extent minimum. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	290
156	Impact of clouds on atmospheric heating based on the R04 CloudSat fluxes and heating rates data set. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	131
157	Identifying multipleâ€™scatteringâ€™affected profiles in CloudSat observations over the oceans. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	36
158	CloudSat mission: Performance and early science after the first year of operation. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	578
159	Remote sensing of tropical tropopause layer radiation balance using Aâ€™rain measurements. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	5
160	Exploring the error characteristics of thin ice cloud property retrievals using a Markov chain Monte Carlo algorithm. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	36
161	Spectral retrieval of latent heating profiles from TRMM PR data: comparisons of lookup tables from two- and three-dimensional simulations. <i>Proceedings of SPIE</i> , 2008, , .	0.8	1
162	Near-Real-Time Applications of CloudSat Data. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 1982-1994.	1.5	24

#	ARTICLE	IF	CITATIONS
163	The Tropical Atmospheric Energy Budget from the TRMM Perspective. Part II: Evaluating GCM Representations of the Sensitivity of Regional Energy and Water Cycles to the 1998-99 ENSO Cycle. <i>Journal of Climate</i> , 2007, 20, 4548-4571.	3.2	34
164	Performance assessment of a five-channel estimation-based ice cloud retrieval scheme for use over the global oceans. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	30
165	Evaluating specific error characteristics of microwave-derived cloud liquid water products. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	31
166	Information content of near-infrared spaceborne multiangular polarization measurements for aerosol retrievals. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	32
167	Rainfall Climate Regimes: The Relationship of Regional TRMM Rainfall Biases to the Environment. <i>Journal of Applied Meteorology and Climatology</i> , 2006, 45, 434-454.	1.5	152
168	Objective Assessment of the Information Content of Visible and Infrared Radiance Measurements for Cloud Microphysical Property Retrievals over the Global Oceans. Part I: Liquid Clouds. <i>Journal of Applied Meteorology and Climatology</i> , 2006, 45, 20-41.	1.5	55
169	Variability in the Characteristics of Precipitation Systems in the Tropical Pacific. Part II: Implications for Atmospheric Heating. <i>Journal of Climate</i> , 2006, 19, 1388-1406.	3.2	10
170	Objective Assessment of the Information Content of Visible and Infrared Radiance Measurements for Cloud Microphysical Property Retrievals over the Global Oceans. Part II: Ice Clouds. <i>Journal of Applied Meteorology and Climatology</i> , 2006, 45, 42-62.	1.5	47
171	The Madden-Julian Oscillation Recorded in Early Observations from the Tropical Rainfall Measuring Mission (TRMM). <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 2777-2794.	1.7	90
172	Variability in the Characteristics of Precipitation Systems in the Tropical Pacific. Part I: Spatial Structure. <i>Journal of Climate</i> , 2005, 18, 823-840.	3.2	71
173	On the information content of satellite radiance observations for cloud microphysical property retrievals. , 2005, , .		0
174	Simultaneous retrievals of column ozone and aerosol optical properties from direct and diffuse solar irradiance measurements. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	30
175	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.	1.9	8
176	Observational Evidence for the Mutual Regulation of the Tropical Hydrological Cycle and Tropical Sea Surface Temperatures. <i>Journal of Climate</i> , 2004, 17, 2213-2224.	3.2	89
177	The impact of explicit cloud boundary information on ice cloud microphysical property retrievals from infrared radiances. <i>Journal of Geophysical Research</i> , 2003, 108, n/a-n/a.	3.3	54
178	The Tropical Oceanic Energy Budget from the TRMM Perspective. Part I: Algorithm and Uncertainties. <i>Journal of Climate</i> , 2003, 16, 1967-1985.	3.2	48
179	An Estimation-Based Precipitation Retrieval Algorithm for Attenuating Radars. <i>Journal of Applied Meteorology and Climatology</i> , 2002, 41, 272-285.	1.7	103
180	An uncertainty model for Bayesian Monte Carlo retrieval algorithms: Application to the TRMM observing system. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2002, 128, 1713-1737.	2.7	32