

# Brian J Soden

## List of Publications by Year in descending order

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142  
papers

20,343  
citations

28274

55  
h-index

10445

139  
g-index

148  
all docs

148  
docs citations

148  
times ranked

13794  
citing authors

#	ARTICLE	IF	CITATIONS
1	Robust Responses of the Hydrological Cycle to Global Warming. <i>Journal of Climate</i> , 2006, 19, 5686-5699.	3.2	3,753
2	Remote Sea Surface Temperature Variations during ENSO: Evidence for a Tropical Atmospheric Bridge. <i>Journal of Climate</i> , 1999, 12, 917-932.	3.2	1,235
3	Atmospheric Warming and the Amplification of Precipitation Extremes. <i>Science</i> , 2008, 321, 1481-1484.	12.6	1,182
4	Global Warming and the Weakening of the Tropical Circulation. <i>Journal of Climate</i> , 2007, 20, 4316-4340.	3.2	1,036
5	WATERVAPORFEEDBACK ANDGLOBALWARMING. <i>Annual Review of Environment and Resources</i> , 2000, 25, 441-475.	1.2	923
6	Weakening of tropical Pacific atmospheric circulation due to anthropogenic forcing. <i>Nature</i> , 2006, 441, 73-76.	27.8	894
7	An Assessment of Climate Feedbacks in Coupled Ocean-Atmosphere Models. <i>Journal of Climate</i> , 2006, 19, 3354-3360.	3.2	875
8	How Well Do We Understand and Evaluate Climate Change Feedback Processes?. <i>Journal of Climate</i> , 2006, 19, 3445-3482.	3.2	849
9	Quantifying Climate Feedbacks Using Radiative Kernels. <i>Journal of Climate</i> , 2008, 21, 3504-3520.	3.2	612
10	Global Cooling After the Eruption of Mount Pinatubo: A Test of Climate Feedback by Water Vapor. <i>Science</i> , 2002, 296, 727-730.	12.6	424
11	Effect of remote sea surface temperature change on tropical cyclone potential intensity. <i>Nature</i> , 2007, 450, 1066-1070.	27.8	376
12	On the contribution of local feedback mechanisms to the range of climate sensitivity in two GCM ensembles. <i>Climate Dynamics</i> , 2006, 27, 17-38.	3.8	334
13	Evidence for Large Decadal Variability in the Tropical Mean Radiative Energy Budget. <i>Science</i> , 2002, 295, 841-844.	12.6	333
14	Tropospheric Aerosol Climate Forcing in Clear-Sky Satellite Observations over the Oceans. <i>Science</i> , 1999, 283, 1299-1303.	12.6	297
15	Observed changes in top-of-the-atmosphere radiation and upper-ocean heating consistent within uncertainty. <i>Nature Geoscience</i> , 2012, 5, 110-113.	12.9	293
16	Climate Response of the Equatorial Pacific to Global Warming. <i>Journal of Climate</i> , 2009, 22, 4873-4892.	3.2	260
17	The Radiative Signature of Upper Tropospheric Moistening. <i>Science</i> , 2005, 310, 841-844.	12.6	259
18	Achieving Climate Change Absolute Accuracy in Orbit. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1519-1539.	3.3	239

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19	Increased tropical Atlantic wind shear in model projections of global warming. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	235
20	On the Use of Cloud Forcing to Estimate Cloud Feedback. <i>Journal of Climate</i> , 2004, 17, 3661-3665.	3.2	208
21	Upper tropospheric relative humidity from the GOES 6.7 $\mu$ m channel: Method and climatology for July 1987. <i>Journal of Geophysical Research</i> , 1993, 98, 16669-16688.	3.3	200
22	Examining the Tropical Pacific's Response to Global Warming. <i>Eos</i> , 2008, 89, 81-83.	0.1	198
23	Current changes in tropical precipitation. <i>Environmental Research Letters</i> , 2010, 5, 025205.	5.2	197
24	An Assessment of Satellite and Radiosonde Climatologies of Upper-Tropospheric Water Vapor. <i>Journal of Climate</i> , 1996, 9, 1235-1250.	3.2	168
25	Whither Hurricane Activity?. <i>Science</i> , 2008, 322, 687-689.	12.6	162
26	Importance of the mixed-phase cloud distribution in the control climate for assessing the response of clouds to carbon dioxide increase: a multi-model study. <i>Climate Dynamics</i> , 2006, 27, 113-126.	3.8	156
27	Diurnal cycle of convection, clouds, and water vapor in the tropical upper troposphere: Satellites versus a general circulation model. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	149
28	Anthropogenic and Natural Influences in the Evolution of Lower Stratospheric Cooling. <i>Science</i> , 2006, 311, 1138-1141.	12.6	139
29	A Satellite Analysis of Deep Convection, Upper-Tropospheric Humidity, and the Greenhouse Effect. <i>Journal of Climate</i> , 1995, 8, 2333-2351.	3.2	125
30	The vertical distribution of cloud feedback in coupled ocean-atmosphere models. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	123
31	Bimodality in tropical water vapour. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 2847-2866.	2.7	113
32	Understanding Rapid Adjustments to Diverse Forcing Agents. <i>Geophysical Research Letters</i> , 2018, 45, 12023-12031.	4.0	113
33	GFDL's CM2 Global Coupled Climate Models. Part IV: Idealized Climate Response. <i>Journal of Climate</i> , 2006, 19, 723-740.	3.2	110
34	Climatological Variations in North Atlantic Tropical Cyclone Tracks. <i>Journal of Climate</i> , 2012, 25, 657-673.	3.2	107
35	Temperature and humidity biases in global climate models and their impact on climate feedbacks. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	105
36	The Sensitivity of the Tropical Hydrological Cycle to ENSO. <i>Journal of Climate</i> , 2000, 13, 538-549.	3.2	102

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37	A comparison of low-latitude cloud properties and their response to climate change in three AGCMs sorted into regimes using mid-tropospheric vertical velocity. <i>Climate Dynamics</i> , 2006, 27, 261-279.	3.8	101
38	Large discrepancy between observed and simulated precipitation trends in the ascending and descending branches of the tropical circulation. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	98
39	Interpretation of TOVS water vapor radiances in terms of layer-average relative humidities: Method and climatology for the upper, middle, and lower troposphere. <i>Journal of Geophysical Research</i> , 1996, 101, 9333-9343.	3.3	96
40	A Comparison of Model- and Satellite-Derived Aerosol Optical Depth and Reflectivity. <i>Journals of the Atmospheric Sciences</i> , 2002, 59, 441-460.	1.7	96
41	Upper-tropospheric moistening in response to anthropogenic warming. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014, 111, 11636-11641.	7.1	90
42	Anthropogenic Weakening of the Tropical Circulation: The Relative Roles of Direct CO2 Forcing and Sea Surface Temperature Change. <i>Journal of Climate</i> , 2015, 28, 8728-8742.	3.2	87
43	The diurnal cycle of convection, clouds, and water vapor in the tropical upper troposphere. <i>Geophysical Research Letters</i> , 2000, 27, 2173-2176.	4.0	86
44	Reconciling opposing Walker circulation trends in observations and model projections. <i>Nature Climate Change</i> , 2019, 9, 405-412.	18.8	86
45	A re-examination of the projected subtropical precipitation decline. <i>Nature Climate Change</i> , 2017, 7, 53-57.	18.8	85
46	Model projected changes of extreme wind events in response to global warming. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	84
47	Evaluation of water vapor distribution in general circulation models using satellite observations. <i>Journal of Geophysical Research</i> , 1994, 99, 1187.	3.3	78
48	The response of the Walker circulation to Last Glacial Maximum forcing: Implications for detection in proxies. <i>Paleoceanography</i> , 2011, 26, .	3.0	77
49	Association of Tropical Cirrus in the 10–15-km Layer with Deep Convective Sources: An Observational Study Combining Millimeter Radar Data and Satellite-Derived Trajectories. <i>Journals of the Atmospheric Sciences</i> , 2006, 63, 480-503.	1.7	73
50	The Impact of Satellite Winds on Experimental GFDL Hurricane Model Forecasts. <i>Monthly Weather Review</i> , 2001, 129, 835-852.	1.4	68
51	An analysis of satellite, radiosonde, and lidar observations of upper tropospheric water vapor from the Atmospheric Radiation Measurement Program. <i>Journal of Geophysical Research</i> , 2004, 109, n/a-n/a.	3.3	68
52	How robust are observed and simulated precipitation responses to tropical ocean warming?. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	67
53	Reducing uncertainties in climate models. <i>Science</i> , 2018, 361, 326-327.	12.6	64
54	Global Climate. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, S9-S128.	3.3	61

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55	Global mean cloud feedbacks in idealized climate change experiments. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	58
56	The Impact of Anthropogenic Climate Change on North Atlantic Tropical Cyclone Tracks*. <i>Journal of Climate</i> , 2013, 26, 4088-4095.	3.2	58
57	Hemispheric climate shifts driven by anthropogenic aerosolâ€œcloud interactions. <i>Nature Geoscience</i> , 2017, 10, 566-571.	12.9	55
58	Tracking upper tropospheric water vapor radiances: A satellite perspective. <i>Journal of Geophysical Research</i> , 1998, 103, 17069-17081.	3.3	54
59	The Impact of Natural and Anthropogenic Climate Change on Western North Pacific Tropical Cyclone Tracks*. <i>Journal of Climate</i> , 2015, 28, 1806-1823.	3.2	54
60	Clear-sky biases in satellite infrared estimates of upper tropospheric humidity and its trends. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	53
61	Radiative Forcing of Climate: The Historical Evolution of the Radiative Forcing Concept, the Forcing Agents and their Quantification, and Applications. <i>Meteorological Monographs</i> , 2019, 59, 14.1-14.101.	5.0	52
62	An upper tropospheric humidity data set from operational satellite microwave data. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	50
63	The robustness of the atmospheric circulation and precipitation response to future anthropogenic surface warming. <i>Geophysical Research Letters</i> , 2014, 41, 2614-2622.	4.0	50
64	Large-scale ice clouds in the GFDL SKYHI general circulation model. <i>Journal of Geophysical Research</i> , 1997, 102, 21745-21768.	3.3	49
65	An Assessment of Direct Radiative Forcing, Radiative Adjustments, and Radiative Feedbacks in Coupled Oceanâ€œAtmosphere Models*. <i>Journal of Climate</i> , 2015, 28, 4152-4170.	3.2	49
66	Diurnal cycle of summertime deep convection over North America: A satellite perspective. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	48
67	Variations in the Tropical Greenhouse Effect during El NiÃ±o. <i>Journal of Climate</i> , 1997, 10, 1050-1055.	3.2	47
68	An investigation of the sensitivity of the clear-sky outgoing longwave radiation to atmospheric temperature and water vapor. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	45
69	Observational Evidence of Increasing Global Radiative Forcing. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091585.	4.0	45
70	The impact of SST biases on projections of anthropogenic climate change: A greater role for atmosphereâ€œonly models?. <i>Geophysical Research Letters</i> , 2016, 43, 7745-7750.	4.0	44
71	An Intercomparison of Radiation Codes for Retrieving Upperâ€œTropospheric Humidity in the 6.3â€œmm Band: A Report from the First CVaP Workshop. <i>Bulletin of the American Meteorological Society</i> , 2000, 81, 797-808.	3.3	43
72	The Sensitivity of the Tropical-Mean Radiation Budget. <i>Journal of Climate</i> , 2005, 18, 3189-3203.	3.2	43

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73	Assessing the quality of humidity measurements from global operational radiosonde sensors. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 8040-8053.	3.3	43
74	Creating Climate Reference Datasets: CARDS Workshop on Adjusting Radiosonde Temperature Data for Climate Monitoring. <i>Bulletin of the American Meteorological Society</i> , 2002, 83, 891-899.	3.3	40
75	The impact of tropical convection and cirrus on upper tropospheric humidity: A Lagrangian analysis of satellite measurements. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	37
76	An assessment of methods for computing radiative forcing in climate models. <i>Environmental Research Letters</i> , 2015, 10, 074004.	5.2	36
77	Global Climate. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, S11-S142.	3.3	36
78	Does the Lack of Coupling in SST-Forced Atmosphere-Only Models Limit Their Usefulness for Climate Change Studies?. <i>Journal of Climate</i> , 2016, 29, 4317-4325.	3.2	35
79	Compensation Between Cloud Feedback and Aerosol-Cloud Interaction in CMIP6 Models. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091024.	4.0	33
80	Observed Modulation of the Tropical Radiation Budget by Deep Convective Organization and Lower-Tropospheric Stability. <i>AGU Advances</i> , 2020, 1, e2019AV000155.	5.4	31
81	An Evaluation of Air-Sea Flux Products for ENSO Simulation and Prediction. <i>Monthly Weather Review</i> , 2002, 130, 723-732.	1.4	29
82	A Comparison of Satellite Observations and Model Simulations of Column-Integrated Moisture and Upper-Tropospheric Humidity. <i>Journal of Climate</i> , 1996, 9, 1561-1585.	3.2	28
83	Will surface winds weaken in response to global warming?. <i>Environmental Research Letters</i> , 2016, 11, 124012.	5.2	28
84	Atmospheric and Oceanic Origins of Tropical Precipitation Variability. <i>Journal of Climate</i> , 2017, 30, 3197-3217.	3.2	28
85	Quantifying the Importance of Rapid Adjustments for Global Precipitation Changes. <i>Geophysical Research Letters</i> , 2018, 45, 11399-11405.	4.0	26
86	Observation-Based Radiative Kernels From CloudSat/CALIPSO. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 5431-5444.	3.3	26
87	Water vapor and lapse rate feedbacks in the climate system. <i>Reviews of Modern Physics</i> , 2021, 93, .	45.6	25
88	Observational and Model Estimates of Cloud Amount Feedback over the Indian and Pacific Oceans. <i>Journal of Climate</i> , 2014, 27, 925-940.	3.2	24
89	Designing the Climate Observing System of the Future. <i>Earth's Future</i> , 2018, 6, 80-102.	6.3	24
90	Revisiting the determination of climate sensitivity from relationships between surface temperature and radiative fluxes. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	23

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91	Detection and Correction of Diurnal Sampling Bias in HIRS/2 Brightness Temperatures. <i>Journal of Atmospheric and Oceanic Technology</i> , 2007, 24, 1425-1438.	1.3	22
92	An assessment of the diurnal variation of upper tropospheric humidity in reanalysis data sets. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3425-3430.	3.3	21
93	Does convectively-detained cloud ice enhance water vapor feedback?. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	20
94	Evidence for a weakening of tropical surface wind extremes in response to atmospheric warming. <i>Geophysical Research Letters</i> , 2011, 38, .	4.0	20
95	Climate Parameters from Satellite Spectral Measurements. Part 1: Collocated AVHRR and HIRS/2 Observations of Spectral Greenhouse Parameter. <i>Journal of Climate</i> , 1996, 9, 327-344.	3.2	19
96	Lagrangian Diagnostics of Tropical Deep Convection and Its Effect upon Upper-Tropospheric Humidity. <i>Journal of Climate</i> , 2008, 21, 1013-1028.	3.2	19
97	Constraining Climate Model Projections of Regional Precipitation Change. <i>Geophysical Research Letters</i> , 2019, 46, 10522-10531.	4.0	19
98	Comparison of upper tropospheric water vapor from GOES, Raman lidar, and cross-chain loran atmospheric sounding system measurements. <i>Journal of Geophysical Research</i> , 1994, 99, 21005.	3.3	18
99	Model-simulated humidity bias in the upper troposphere and its relation to the large-scale circulation. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	17
100	Intercalibrating Microwave Satellite Observations for Monitoring Long-Term Variations in Upper- and Midtropospheric Water Vapor*. <i>Journal of Atmospheric and Oceanic Technology</i> , 2013, 30, 2303-2319.	1.3	17
101	Enlightening water vapour. <i>Nature</i> , 2000, 406, 247-248.	27.8	16
102	The spectral dimension of longwave feedback in the CMIP3 and CMIP5 experiments. <i>Geophysical Research Letters</i> , 2014, 41, 7830-7837.	4.0	16
103	An assessment of climate feedback processes using satellite observations of clear-sky OLR. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	15
104	The Sensitivity of the Hydrological Cycle to Internal Climate Variability versus Anthropogenic Climate Change. <i>Journal of Climate</i> , 2016, 29, 3661-3673.	3.2	15
105	<title>Far-infrared: a frontier in remote sensing of Earth's climate and energy balance</title>. , 2002, 4485, 150.		14
106	Interannual co-variability of tropical temperature and humidity: A comparison of model, reanalysis data and satellite observation. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	13
107	Shape of Atlantic Tropical Cyclone Tracks and the Indian Monsoon. <i>Geophysical Research Letters</i> , 2018, 45, 10,746.	4.0	13
108	Enhanced hydrological cycle increases ocean heat uptake and moderates transient climate change. <i>Nature Climate Change</i> , 2021, 11, 848-853.	18.8	13

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109	Sea Surface Salinity Response to Tropical Cyclones Based on Satellite Observations. <i>Remote Sensing</i> , 2021, 13, 420.	4.0	13
110	Decadal Variations in Tropical Water Vapor: A Comparison of Observations and a Model Simulation. <i>Journal of Climate</i> , 2000, 13, 3337-3341.	3.2	12
111	Radiative Feedbacks Associated with the Madden-Julian Oscillation. <i>Journal of Climate</i> , 2019, 32, 7055-7065.	3.2	12
112	The Large-Scale Dynamical Response of Clouds to Aerosol Forcing. <i>Journal of Climate</i> , 2017, 30, 8783-8794.	3.2	11
113	Examining the Role of Cloud Radiative Interactions in Tropical Cyclone Development Using Satellite Measurements and WRF Simulations. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093259.	4.0	11
114	An assessment of the consistency between satellite measurements of upper tropospheric water vapor. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 2874-2887.	3.3	10
115	Signatures of Tropical Cyclone Intensification in Satellite Measurements of Ice and Liquid Water Content. <i>Monthly Weather Review</i> , 2017, 145, 4081-4091.	1.4	10
116	Diagnosing Climate Feedbacks in Coupled Ocean-Atmosphere Models. <i>Surveys in Geophysics</i> , 2012, 33, 733-744.	4.6	9
117	Validation of cloud forcing simulated by the National Center for Atmospheric Research community climate model using observations from the Earth Radiation Budget Experiment. <i>Journal of Geophysical Research</i> , 1992, 97, 18137-18159.	3.3	8
118	An assessment of the tropical humidity-temperature covariance using AIRS. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	8
119	Impact of Ocean Eddy Resolution on the Sensitivity of Precipitation to CO <sub>2</sub> Increase. <i>Geophysical Research Letters</i> , 2018, 45, 7194-7203.	4.0	8
120	Ice Water Content as a Precursor to Tropical Cyclone Rapid Intensification. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL089669.	4.0	8
121	Investigating the Influence of Carbon Dioxide and the Stratosphere on the Long-Term Tropospheric Temperature Monitoring from HIRS. <i>Journal of Applied Meteorology and Climatology</i> , 2010, 49, 1927-1937.	1.5	7
122	Radiative signature of increasing atmospheric carbon dioxide in HIRS satellite observations. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	7
123	Retrieving Layer-Averaged Tropospheric Humidity From Advanced Technology Microwave Sounder Water Vapor Channels. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2015, 53, 6675-6688.	6.3	7
124	Evaluating Climate Model Simulations of the Radiative Forcing and Radiative Response at Earth's Surface. <i>Journal of Climate</i> , 2019, 32, 4089-4102.	3.2	7
125	The Role of Radiative Interactions in Tropical Cyclone Development under Realistic Boundary Conditions. <i>Journal of Climate</i> , 2021, 34, 2079-2091.	3.2	7
126	Bimodality in tropical water vapour. <i>Quarterly Journal of the Royal Meteorological Society</i> , 2003, 129, 2847-2866.	2.7	7



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127	On the compensation between cloud feedback and cloud adjustment in climate models. <i>Climate Dynamics</i> , 2018, 50, 1267-1276.	3.8	6
128	A Satellite-Based Assessment of Upper-Tropospheric Water Vapor Measurements during AFWEX. <i>Journal of Applied Meteorology and Climatology</i> , 2009, 48, 2284-2294.	1.5	5
129	On the Correlation between Total Condensate and Moist Heating in Tropical Cyclones and Applications for Diagnosing Intensity. <i>Monthly Weather Review</i> , 2019, 147, 3759-3784.	1.4	5
130	Convective Aggregation and the Amplification of Tropical Precipitation Extremes. <i>AGU Advances</i> , 2020, 1, e2020AV000201.	5.4	5
131	Satellite-Based Reconstruction of the Tropical Oceanic Clear-Sky Outgoing Longwave Radiation and Comparison with Climate Models. <i>Journal of Climate</i> , 2014, 27, 941-957.	3.2	4
132	Influence of Vertical Wind Shear on the Ocean Response to Tropical Cyclones Based on Satellite Observations. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095451.	4.0	4
133	Evaluation of model-simulated upper troposphere humidity using 6.7 $\mu$ m satellite observations. <i>Journal of Geophysical Research</i> , 1997, 102, 25737-25749.	3.3	3
134	Correction to "Does convectively-detained cloud ice enhance water vapor feedback?" <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	3
135	Using Satellite Observations to Evaluate the Relationships between Ice Condensate, Latent Heat Release, and Tropical Cyclone Intensification in a Mesoscale Model. <i>Monthly Weather Review</i> , 2021, 149, 113-129.	1.4	3
136	Evaluating Observational Constraints on Intermodel Spread in Cloud, Temperature, and Humidity Feedbacks. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092309.	4.0	3
137	Variations in atmosphere-ocean solar absorption under clear skies: A comparison of observations and models. <i>Geophysical Research Letters</i> , 1998, 25, 2149-2152.	4.0	1
138	Investigating the Causes and Impacts of Convective Aggregation in a High Resolution Atmospheric GCM. <i>Journal of Advances in Modeling Earth Systems</i> , 0, , e2021MS002675.	3.8	1
139	Diagnosing Climate Feedbacks in Coupled Ocean-Atmosphere Models. <i>Space Sciences Series of ISSI</i> , 2012, , 401-412.	0.0	1
140	Water-vapor observations. , 0, , 285-311.		0
141	Toward a long-term homogenized UTH data set derived from satellite microwave measurements. , 2006, , .		0
142	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