

# William Collins

## List of Publications by Year in descending order

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164  
papers

25,938  
citations

38742  
50  
h-index

7518  
151  
g-index

183  
all docs

183  
docs citations

183  
times ranked

21160  
citing authors

#	ARTICLE	IF	CITATIONS
1	A framework for detection and attribution of regional precipitation change: Application to the United States historical record. <i>Climate Dynamics</i> , 2023, 60, 705-741.	3.8	4
2	Impact of horizontal resolution on simulation of precipitation extremes in an aqua-planet version of Community Atmospheric Model (CAM3). <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2022, 63, 884.	1.7	68
3	Monitoring methane emissions from oil and gas operations. <i>Optics Express</i> , 2022, 30, 24326.	3.4	5
4	Monitoring Methane Emissions from Oil and Gas Operations. , 2022, 1, .		19
5	ClimateNet: an expert-labeled open dataset and deep learning architecture for enabling high-precision analyses of extreme weather. <i>Geoscientific Model Development</i> , 2021, 14, 107-124.	3.6	43
6	Quantifying the influence of natural climate variability on in situ measurements of seasonal total and extreme daily precipitation. <i>Climate Dynamics</i> , 2021, 56, 3205-3230.	3.8	10
7	Distortions of the Rain Distribution With Warming, With and Without Self-Organization. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2020MS002256.	3.8	8
8	Evaluation of extreme sub-daily precipitation in high-resolution global climate model simulations. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2021, 379, 20190545.	3.4	26
9	Sources of Subseasonal-to-Seasonal Predictability of Atmospheric Rivers and Precipitation in the Western United States. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034053.	3.3	13
10	Uncertainties in Atmospheric River Lifecycles by Detection Algorithms: Climatology and Variability. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033711.	3.3	24
11	Equity is more important for the social cost of methane than climate uncertainty. <i>Nature</i> , 2021, 592, 564-570.	27.8	26
12	Global Microphysical Sensitivity of Superparameterized Precipitation Extremes. <i>Earth and Space Science</i> , 2021, 8, e2020EA001308.	2.6	0
13	An Investigation Into Biases in Instantaneous Aerosol Radiative Effects Calculated by Shortwave Parameterizations in Two Earth System Models. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2019JD032323.	3.3	2
14	Quantitative Precipitation Estimation of Extremes in CONUS With Radar Data. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094697.	4.0	6
15	Constraining and Characterizing the Size of Atmospheric Rivers: A Perspective Independent From the Detection Algorithm. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD033746.	3.3	4
16	The Influence of Ocean Coupling on Simulated and Projected Tropical Cyclone Precipitation in the HighResMIP-PRIMAVERA Simulations. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094801.	4.0	12
17	A low-to-no snow future and its impacts on water resources in the western United States. <i>Nature Reviews Earth &amp; Environment</i> , 2021, 2, 800-819.	29.7	106
18	Maximizing ENSO as a source of western US hydroclimate predictability. <i>Climate Dynamics</i> , 2020, 54, 351-372.	3.8	52

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19	Microphysical Sensitivity of Superparameterized Precipitation Extremes in the Contiguous United States Due to Feedbacks on Large-scale Circulation. <i>Earth and Space Science</i> , 2020, 7, e2019EA000731.	2.6	3
20	Effective radiative forcing and adjustments in CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 9591-9618.	4.9	149
21	Detection of atmospheric rivers with inline uncertainty quantification: TECA-BARD v1.0.1. <i>Geoscientific Model Development</i> , 2020, 13, 6131-6148.	3.6	13
22	ESD Reviews: Climate feedbacks in the Earth system and prospects for their evaluation. <i>Earth System Dynamics</i> , 2019, 10, 379-452.	7.1	46
23	A probabilistic gridded product for daily precipitation extremes over the United States. <i>Climate Dynamics</i> , 2019, 53, 2517-2538.	3.8	32
24	Detected Changes in Precipitation Extremes at Their Native Scales Derived from In Situ Measurements. <i>Journal of Climate</i> , 2019, 32, 8087-8109.	3.2	12
25	Optimization of the Eddy-diffusivity/Mass-flux Shallow Cumulus and Boundary-layer Parameterization Using Surrogate Models. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 402-416.	3.8	5
26	Taking climate model evaluation to the next level. <i>Nature Climate Change</i> , 2019, 9, 102-110.	18.8	407
27	Quantifying the Effects of Historical Land Cover Conversion Uncertainty on Global Carbon and Climate Estimates. <i>Geophysical Research Letters</i> , 2018, 45, 974-982.	4.0	26
28	Observationally derived rise in methane surface forcing mediated by water vapour trends. <i>Nature Geoscience</i> , 2018, 11, 238-243.	12.9	37
29	A basis set for exploration of sensitivity to prescribed ocean conditions for estimating human contributions to extreme weather in CAM5.1-1degree. <i>Weather and Climate Extremes</i> , 2018, 19, 10-19.	4.1	29
30	Prognostic Power of Extreme Rainfall Scaling Formulas Across Space and Time Scales. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 3252-3267.	3.8	8
31	Sensitivity of Mountain Hydroclimate Simulations in Variable-resolution CESM to Microphysics and Horizontal Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 1357-1380.	3.8	28
32	Quantifying Human-mediated Carbon Cycle Feedbacks. <i>Geophysical Research Letters</i> , 2018, 45, 11,370.	4.0	7
33	Large regional shortwave forcing by anthropogenic methane informed by Jovian observations. <i>Science Advances</i> , 2018, 4, eaas9593.	10.3	16
34	Reducing uncertainties in climate models. <i>Science</i> , 2018, 361, 326-327.	12.6	64
35	An Intercomparison of GCM and RCM Dynamical Downscaling for Characterizing the Hydroclimatology of California and Nevada. <i>Journal of Hydrometeorology</i> , 2018, 19, 1485-1506.	1.9	18
36	Biospheric feedback effects in a synchronously coupled model of human and Earth systems. <i>Nature Climate Change</i> , 2017, 7, 496-500.	18.8	46

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37	Diagnosing conditional anthropogenic contributions to heavy Colorado rainfall in September 2013. Weather and Climate Extremes, 2017, 17, 1-6.	4.1	55
38	An Independent Assessment of Anthropogenic Attribution Statements for Recent Extreme Temperature and Rainfall Events. Journal of Climate, 2017, 30, 5-16.	3.2	71
39	Spherical Harmonic Spectral Estimation on Arbitrary Grids. Monthly Weather Review, 2017, 145, 3355-3363.	1.4	4
40	Simultaneous characterization of mesoscale and convective-scale tropical rainfall extremes and their dynamical and thermodynamic modes of change. Journal of Advances in Modeling Earth Systems, 2017, 9, 2103-2119.	3.8	22
41	A New Paradigm for Diagnosing Contributions to Model Aerosol Forcing Error. Geophysical Research Letters, 2017, 44, 12,004.	4.0	8
42	The Impact of ARM on Climate Modeling. Meteorological Monographs, 2016, 57, 26.1-26.16.	5.0	6
43	The spectroscopic foundation of radiative forcing of climate by carbon dioxide. Geophysical Research Letters, 2016, 43, 5318-5325.	4.0	20
44	What are the effects of Agro-Ecological Zones and land use region boundaries on land resource projection using the Global Change Assessment Model?. Environmental Modelling and Software, 2016, 85, 246-265.	4.5	14
45	ENSO regulation of farâ€•and midâ€•infrared contributions to clearâ€•sky OLR. Geophysical Research Letters, 2016, 43, 8751-8759.	4.0	2
46	Resolution dependence of precipitation statistical fidelity in hindcast simulations. Journal of Advances in Modeling Earth Systems, 2016, 8, 976-990.	3.8	60
47	A multimodel intercomparison of resolution effects on precipitation: simulations and theory. Climate Dynamics, 2016, 47, 2205-2218.	3.8	49
48	A fast and objective multidimensional kernel density estimation method: fastKDE. Computational Statistics and Data Analysis, 2016, 101, 148-160.	1.2	107
49	Evaluation of hydrologic components of community land model 4 and bias identification. International Journal of Applied Earth Observation and Geoinformation, 2016, 48, 5-16.	2.8	19
50	Chapter 3. Science and Pathways for Bending the Curve. Collabra, 2016, 2, .	1.3	0
51	Observing Climate Change With Both Shortwave and Longwave Hyperspectral Satellite Instrumentation. , 2016, , .		0
52	From research to action on climate change. Frontiers in Ecology and the Environment, 2015, 13, 459-459.	4.0	0
53	Sensitivity of <scp>MJO</scp> propagation to a robust positive <scp>I</scp>ndian <scp>O</scp>cean dipole event in the superparameterized <scp>CAM</scp>. Journal of Advances in Modeling Earth Systems, 2015, 7, 1901-1917.	3.8	23
54	Progress in Fast, Accurate Multi-scale Climate Simulations. Procedia Computer Science, 2015, 51, 2006-2015.	2.0	2

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55	Origins of climate model discrepancies in atmospheric shortwave absorption and global precipitation changes. Geophysical Research Letters, 2015, 42, 8749-8757.	4.0	15
56	Pan-spectral observing system simulation experiments of shortwave reflectance and long-wave radiance for climate model evaluation. Geoscientific Model Development, 2015, 8, 1943-1954.	3.6	13
57	The integrated Earth system model version 1: formulation and functionality. Geoscientific Model Development, 2015, 8, 2203-2219.	3.6	44
58	Accounting for radiative forcing from albedo change in future global land-use scenarios. Climatic Change, 2015, 131, 691-703.	3.6	28
59	Observational determination of surface radiative forcing by CO2 from 2000 to 2010. Nature, 2015, 519, 339-343.	27.8	174
60	An integrated assessment of water-energy and climate change in sacramento, california: how strong is the nexus?. Climatic Change, 2015, 132, 223-235.	3.6	40
61	Resolution Dependence of Future Tropical Cyclone Projections of CAM5.1 in the U.S. CLIVAR Hurricane Working Group Idealized Configurations. Journal of Climate, 2015, 28, 3905-3925.	3.2	106
62	Statistical uncertainty of eddy covariance CO2 fluxes inferred using a residual bootstrap approach. Agricultural and Forest Meteorology, 2015, 206, 163-171.	4.8	6
63	TECA: Petascale Pattern Recognition for Climate Science. Lecture Notes in Computer Science, 2015, , 426-436.	1.3	9
64	Characterization of extreme precipitation within atmospheric river events over California. Advances in Statistical Climatology, Meteorology and Oceanography, 2015, 1, 45-57.	0.9	13
65	Forest response to increased disturbance in the central Amazon and comparison to western Amazonian forests. Biogeosciences, 2014, 11, 5773-5794.	3.3	22
66	From land use to land cover: restoring the afforestation signal in a coupled integrated assessmentâ€‘earth system model and the implications for CMIP5 RCP simulations. Biogeosciences, 2014, 11, 6435-6450.	3.3	49
67	The effect of horizontal resolution on simulation quality in the <scp>C</scp>ommunity <scp>A</scp>tmospheric <scp>M</scp>odel, <scp>CAM</scp>5.1. Journal of Advances in Modeling Earth Systems, 2014, 6, 980-997.	3.8	233
68	Far-infrared surface emissivity and climate. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16297-16302.	7.1	46
69	Reducing the computational cost of the ECF using a nuFFT: A fast and objective probability density estimation method. Computational Statistics and Data Analysis, 2014, 79, 222-234.	1.2	38
70	Anthropogenic and Natural Radiative Forcing. , 2014, , 659-740.		786
71	Evaluation of Climate Models. , 2014, , 741-866.		458
72	Interannual variability of the Earth's spectral solar reflectance from measurements and simulations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4458-4470.	3.3	6

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73	The robust dynamical contribution to precipitation extremes in idealized warming simulations across model resolutions. <i>Geophysical Research Letters</i> , 2014, 41, 2971-2978.	4.0	29
74	The spatial scale dependence of water vapor variability inferred from observations from a very tall tower. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 9822-9837.	3.3	6
75	Global simulations of aerosol amount and size using MODIS observations assimilated with an Ensemble Kalman Filter. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 12,780.	3.3	13
76	Temporal variability of observed and simulated hyperspectral reflectance. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 10,262.	3.3	5
77	A Hierarchical Evaluation of Regional Climate Simulations. <i>Eos</i> , 2013, 94, 297-298.	0.1	44
78	On the additivity of radiative forcing between land use change and greenhouse gases. <i>Geophysical Research Letters</i> , 2013, 40, 4036-4041.	4.0	41
79	The Community Earth System Model: A Framework for Collaborative Research. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1339-1360.	3.3	1,848
80	Greenhouse Gas Policy Influences Climate via Direct Effects of Land-Use Change. <i>Journal of Climate</i> , 2013, 26, 3657-3670.	3.2	59
81	Achieving Climate Change Absolute Accuracy in Orbit. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, 1519-1539.	3.3	239
82	PORT, a CESM tool for the diagnosis of radiative forcing. <i>Geoscientific Model Development</i> , 2013, 6, 469-476.	3.6	74
83	Observed Scaling in Clouds and Precipitation and Scale Incognizance in Regional to Global Atmospheric Models. <i>Journal of Climate</i> , 2013, 26, 9313-9333.	3.2	46
84	On the Usage of Spectral and Broadband Satellite Instrument Measurements to Differentiate Climate Models with Different Cloud Feedback Strengths. <i>Journal of Climate</i> , 2013, 26, 6561-6574.	3.2	7
85	Global dust simulations in the multiscale modeling framework. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 15-31.	3.8	2
86	Hurricanes in an aquaplanet world: Implications of the impacts of external forcing and model horizontal resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2013, 5, 134-145.	3.8	12
87	Quantitative comparison of the variability in observed and simulated shortwave reflectance. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 3133-3147.	4.9	14
88	Climate response due to carbonaceous aerosols and aerosol-induced SST effects in NCAR community atmospheric model CAM3.5. <i>Atmospheric Chemistry and Physics</i> , 2013, 13, 7489-7510.	4.9	17
89	A case study of subdaily simulated and observed continental convective precipitation: CMIP5 and multiscale global climate models comparison. <i>Geophysical Research Letters</i> , 2013, 40, 5999-6003.	4.0	33
90	The effect of vertically resolved soil biogeochemistry and alternate soil C and N models on C dynamics of CLM4. <i>Biogeosciences</i> , 2013, 10, 7109-7131.	3.3	359

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91	First-Order Structure Function Analysis of Statistical Scale Invariance in the AIRS-Observed Water Vapor Field. <i>Journal of Climate</i> , 2012, 25, 5538-5555.	3.2	20
92	Local and Remote Climate Impacts from Expansion of Woody Biomass for Bioenergy Feedstock in the Southeastern United States. <i>Journal of Climate</i> , 2012, 25, 7643-7659.	3.2	8
93	Toward a minimal representation of aerosols in climate models: description and evaluation in the Community Atmosphere Model CAM5. <i>Geoscientific Model Development</i> , 2012, 5, 709-739.	3.6	807
94	Impact of ocean model resolution on CCSM climate simulations. <i>Climate Dynamics</i> , 2012, 39, 1303-1328.	3.8	181
95	Application of the CALIOP layer product to evaluate the vertical distribution of aerosols estimated by global models: AeroCom phase I results. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	170
96	“Superparameterization”: A better way to simulate regional extreme precipitation?. <i>Journal of Advances in Modeling Earth Systems</i> , 2012, 4, .	3.8	57
97	Global transport of passive tracers in conventional and superparameterized climate models: Evaluation of multi-scale methods. <i>Journal of Advances in Modeling Earth Systems</i> , 2012, 4, .	3.8	4
98	CLARREO shortwave observing system simulation experiments of the twenty-first century: Simulator design and implementation. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	39
99	Improvements of top-of-atmosphere and surface irradiance computations with CALIPSO-, CloudSat-, and MODIS-derived cloud and aerosol properties. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	208
100	Simulation studies for the detection of changes in broadband albedo and shortwave nadir reflectance spectra under a climate change scenario. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	17
101	Using surface remote sensors to derive radiative characteristics of Mixed-Phase Clouds: an example from M-PACE. <i>Atmospheric Chemistry and Physics</i> , 2011, 11, 11937-11949.	4.9	11
102	Response of precipitation extremes to idealized global warming in an aqua-planet climate model: towards a robust projection across different horizontal resolutions. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2011, 63, 876-883.	1.7	26
103	Extension of the weak-line approximation and application to correlated-k methods. <i>Journal of Quantitative Spectroscopy and Radiative Transfer</i> , 2011, 112, 1525-1532.	2.3	9
104	Relating Satellite-Observed Cloud Properties from MODIS to Meteorological Conditions for Marine Boundary Layer Clouds. <i>Journal of Climate</i> , 2010, 23, 1374-1391.	3.2	17
105	Effects of Black Carbon Aerosols on the Indian Monsoon. <i>Journal of Climate</i> , 2008, 21, 2869-2882.	3.2	406
106	Radiative forcing by long-lived greenhouse gases: Calculations with the AER radiative transfer models. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	3,199
107	Investigation of Regional and Seasonal Variations in Marine Boundary Layer Cloud Properties from MODIS Observations. <i>Journal of Climate</i> , 2008, 21, 4955-4973.	3.2	42
108	Impact of Desert Dust Radiative Forcing on Sahel Precipitation: Relative Importance of Dust Compared to Sea Surface Temperature Variations, Vegetation Changes, and Greenhouse Gas Warming. <i>Journal of Climate</i> , 2007, 20, 1445-1467.	3.2	290



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109	The Physical Science behind Climate Change. Scientific American, 2007, 297, 64-73.	1.0	51
110	Radiative forcing by well-mixed greenhouse gases: Estimates from climate models in the Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report (AR4). Journal of Geophysical Research, 2006, 111, .	3.3	211
111	Effects of increased near-infrared absorption by water vapor on the climate system. Journal of Geophysical Research, 2006, 111, .	3.3	25
112	Climate response and radiative forcing from mineral aerosols during the last glacial maximum, pre-industrial, current and doubled-carbon dioxide climates. Geophysical Research Letters, 2006, 33, .	4.0	134
113	An AeroCom initial assessment “ optical properties in aerosol component modules of global models. Atmospheric Chemistry and Physics, 2006, 6, 1815-1834.	4.9	697
114	The Climate Sensitivity of the Community Climate System Model Version 3 (CCSM3). Journal of Climate, 2006, 19, 2584-2596.	3.2	159
115	Climatology of Upper-Tropospheric Relative Humidity from the Atmospheric Infrared Sounder and Implications for Climate. Journal of Climate, 2006, 19, 6104-6121.	3.2	83
116	Radiative and Dynamical Feedbacks over the Equatorial Cold Tongue: Results from Nine Atmospheric GCMs. Journal of Climate, 2006, 19, 4059-4074.	3.2	76
117	Climate Change Projections for the Twenty-First Century and Climate Change Commitment in the CCSM3. Journal of Climate, 2006, 19, 2597-2616.	3.2	239
118	The Formulation and Atmospheric Simulation of the Community Atmosphere Model Version 3 (CAM3). Journal of Climate, 2006, 19, 2144-2161.	3.2	895
119	The Community Climate System Model Version 3 (CCSM3). Journal of Climate, 2006, 19, 2122-2143.	3.2	2,075
120	Amplification of Surface Temperature Trends and Variability in the Tropical Atmosphere. Science, 2005, 309, 1551-1556.	12.6	267
121	How Much More Global Warming and Sea Level Rise?. Science, 2005, 307, 1769-1772.	12.6	542
122	Response of a coupled chemistry-climate model to changes in aerosol emissions: Global impact on the hydrological cycle and the tropospheric burdens of OH, ozone, and NOx. Geophysical Research Letters, 2005, 32, .	4.0	57
123	Assessing future nitrogen deposition and carbon cycle feedback using a multimodel approach: Analysis of nitrogen deposition. Journal of Geophysical Research, 2005, 110, .	3.3	266
124	Using the PARAGON Framework to Establish an Accurate, Consistent, and Cohesive Long-Term Aerosol Record. Bulletin of the American Meteorological Society, 2004, 85, 1535-1548.	3.3	11
125	PARAGON: An Integrated Approach for Characterizing Aerosol Climate Impacts and Environmental Interactions. Bulletin of the American Meteorological Society, 2004, 85, 1491-1502.	3.3	59
126	Effect of clouds on photolysis and oxidants in the troposphere. Journal of Geophysical Research, 2003, 108, .	3.3	240



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127	Comparison of ScaRaB, GOES 8, aircraft, and surface observations of the absorption of solar radiation by clouds. Journal of Geophysical Research, 2002, 107, ACL 1-1-ACL 1-6.	3.3	7
128	An updated parameterization for infrared emission and absorption by water vapor in the National Center for Atmospheric Research Community Atmosphere Model. Journal of Geophysical Research, 2002, 107, ACL 17-1.	3.3	83
129	Simulation of aerosol distributions and radiative forcing for INDOEX: Regional climate impacts. Journal of Geophysical Research, 2002, 107, INX2 27-1.	3.3	88
130	Indian Ocean Experiment: An integrated analysis of the climate forcing and effects of the great Indo-Asian haze. Journal of Geophysical Research, 2001, 106, 28371-28398.	3.3	1,199
131	Simulating aerosols using a chemical transport model with assimilation of satellite aerosol retrievals: Methodology for INDOEX. Journal of Geophysical Research, 2001, 106, 7313-7336.	3.3	298
132	Understanding the Indian Ocean Experiment (INDOEX) aerosol distributions with an aerosol assimilation. Journal of Geophysical Research, 2001, 106, 7337-7355.	3.3	168
133	Dust and pollution transport on global scales: Aerosol measurements and model predictions. Journal of Geophysical Research, 2001, 106, 32555-32569.	3.3	116
134	The ScaRaBâ€Resurs Earth Radiation Budget Dataset and First Results. Bulletin of the American Meteorological Society, 2001, 82, 1397-1408.	3.3	37
135	Effects of Enhanced Shortwave Absorption on Coupled Simulations of the Tropical Climate System. Journal of Climate, 2001, 14, 1147-1165.	3.2	10
136	Parameterization of Generalized Cloud Overlap for Radiative Calculations in General Circulation Models. Journals of the Atmospheric Sciences, 2001, 58, 3224-3242.	1.7	134
137	The NCEPâ€NCAR 50â€Year Reanalysis: Monthly Means CDâ€ROM and Documentation. Bulletin of the American Meteorological Society, 2001, 82, 247-267.	3.3	3,710
138	Response of the NCAR Climate System Model to Increased CO <sub>2</sub> and the Role of Physical Processes. Journal of Climate, 2000, 13, 1879-1898.	3.2	126
139	Indian Ocean Low Clouds during the Winter Monsoon. Journal of Climate, 2000, 13, 2028-2043.	3.2	28
140	Determination of surface heating by convective cloud systems in the central equatorial Pacific from surface and satellite measurements. Journal of Geophysical Research, 2000, 105, 14807-14821.	3.3	4
141	Detecting tropical convection using AVHRR satellite data. Journal of Geophysical Research, 1999, 104, 9213-9228.	3.3	6
142	Long-Term Behavior of Cloud Systems in TOGA COARE and Their Interactions with Radiative and Surface Processes. Part II: Effects of Ice Microphysics on Cloudâ€Radiation Interaction. Journals of the Atmospheric Sciences, 1999, 56, 3177-3195.	1.7	85
143	A global signature of enhanced shortwave absorption by clouds. Journal of Geophysical Research, 1998, 103, 31669-31679.	3.3	35
144	Cloud properties leading to highly reflective tropical cirrus: Interpretations from CEPEX, TOGA COARE, and Kwajalein, Marshall Islands. Journal of Geophysical Research, 1998, 103, 8805-8812.	3.3	23

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145	Direct observations of aerosol radiative forcing over the tropical Indian Ocean during the January-February 1996 pre-INDOEX cruise. <i>Journal of Geophysical Research</i> , 1998, 103, 13827-13836.	3.3	170
146	The ScaRaB Earth Radiation Budget Dataset. <i>Bulletin of the American Meteorological Society</i> , 1998, 79, 765-783.	3.3	130
147	Comparison of Tropical Ocean–Atmosphere Fluxes with the NCAR Community Climate Model CCM3*. <i>Journal of Climate</i> , 1997, 10, 3047-3058.	3.2	11
148	Atmospheric absorption during the Atmospheric Radiation Measurement (ARM) Enhanced Shortwave Experiment (ARESE). <i>Journal of Geophysical Research</i> , 1997, 102, 29901-29915.	3.3	77
149	Atmospheric Radiation Measurements Enhanced Shortwave Experiment (ARESE): Experimental and data details. <i>Journal of Geophysical Research</i> , 1997, 102, 29929-29937.	3.3	40
150	Direct Radiometric Observations of the Water Vapor Greenhouse Effect Over the Equatorial Pacific Ocean. <i>Science</i> , 1997, 275, 1773-1776.	12.6	18
151	Radiative effects of convection in the tropical Pacific. <i>Journal of Geophysical Research</i> , 1996, 101, 14999-15012.	3.3	22
152	An estimate of the surface shortwave cloud forcing over the western Pacific during TOGA COARE. <i>Geophysical Research Letters</i> , 1996, 23, 519-522.	4.0	38
153	Validation of Clear-Sky Fluxes for Tropical Oceans from the Earth Radiation Budget Experiment. <i>Journal of Climate</i> , 1995, 8, 569-578.	3.2	22
154	The role of water vapor and convection during the Central Equatorial Pacific Experiment from observations and model simulations. <i>Journal of Geophysical Research</i> , 1995, 100, 26229.	3.3	15
155	Comment on the Paper “An inquiry into the cirrus-cloud thermostat effect for tropical sea surface temperature” by K. M. Lau, C. H. Sui, M. D. Chou and W. K. Tau. <i>Geophysical Research Letters</i> , 1994, 21, 1185-1186.	4.0	4
156	Relationship between clear-sky atmospheric greenhouse effect and deep convection during the Central Equatorial Pacific Experiment: Model calculations and satellite observations. <i>Journal of Geophysical Research</i> , 1994, 99, 25891.	3.3	15
157	A thermostat in the tropics?. <i>Nature</i> , 1993, 361, 410-411.	27.8	17
158	Mechanics of apparent horizons. <i>Physical Review D</i> , 1992, 45, 495-498.	4.7	30
159	Thermostat and global warming. <i>Nature</i> , 1992, 357, 649-649.	27.8	28
160	The theory of magnetohydrodynamic wave generation by localized sources. III - Efficiency of plasma heating by dissipation of far-field waves. <i>Astrophysical Journal</i> , 1992, 384, 319.	4.5	12
161	Thermodynamic regulation of ocean warming by cirrus clouds deduced from observations of the 1987 El Niño. <i>Nature</i> , 1991, 351, 27-32.	27.8	684
162	The theory of magnetohydrodynamic wave generation by localized sources. I - General asymptotic theory. <i>Astrophysical Journal</i> , 1989, 337, 548.	4.5	11

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163	The theory of magnetohydrodynamic wave generation by localized sources. II - Collisionless dissipation of wave packets. Astrophysical Journal, 1989, 343, 499.	4.5	13
164	Thermal production of superheavy magnetic monopoles in the new inflationary-Universe scenario. Physical Review D, 1984, 29, 2158-2161.	4.7	11