William Collins

List of Publications by Year
in descending order

164 papers	25,938 citations	38660 50 h-index	7496 151 g-index
183 all docs	183 docs citations	183 times ranked	21160 citing authors

#	Article	IF	Citations
1	The NCEPâ€“NCAR 50â€“Year Reanalysis: Monthly Means CDâ€“ROM and Documentation. Bulletin of the American Meteorological Society, 2001, 82, 247-267.	1.7	3,710
2	Radiative forcing by longâ€lived greenhouse gases: Calculations with the AER radiative transfer models. Journal of Geophysical Research, 2008, 113, .	3.3	3,199
3	The Community Climate System Model Version 3 (CCSM3). Journal of Climate, 2006, 19, 2122-2143.	1.2	2,075
4	The Community Earth System Model: A Framework for Collaborative Research. Bulletin of the American Meteorological Society, 2013, 94, 1339-1360.	1.7	1,848
5	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
6	The Formulation and Atmospheric Simulation of the Community Atmosphere Model Version 3 (CAM3). Journal of Climate, 2006, 19, 2144-2161.	1.2	895
7	Toward a minimal representation of aerosols in climate models: description and evaluation in the Community Atmosphere Model CAM5. Geoscientific Model Development, 2012, 5, 709-739.	1.3	807
8	Anthropogenic and Natural Radiative Forcing. , 2014, , 659-740.		786
9	An AeroCom initial assessment â€“ optical properties in aerosol component modules of global models. Atmospheric Chemistry and Physics, 2006, 6, 1815-1834.	1.9	697
10	Thermodynamic regulation of ocean warming by cirrus clouds deduced from observations of the 1987 El NiÃ±o. Nature, 1991, 351, 27-32.	13.7	684
11	How Much More Global Warming and Sea Level Rise?. Science, 2005, 307, 1769-1772.	6.0	542
12	Evaluation of Climate Models. , 2014, , 741-866.		458
13	Taking climate model evaluation to the next level. Nature Climate Change, 2019, 9, 102-110.	8.1	407
14	Effects of Black Carbon Aerosols on the Indian Monsoon. Journal of Climate, 2008, 21, 2869-2882.	1.2	406
15	The effect of vertically resolved soil biogeochemistry and alternate soil C and N models on C dynamics of CLM4. Biogeosciences, 2013, 10, 7109-7131.	1.3	359
16	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
17	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. Journal of Climate, 2007, 20, 1445-1467.	1.2	290
18	Amplification of Surface Temperature Trends and Variability in the Tropical Atmosphere. Science, 2005, 309, 1551-1556.	6.0	267

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19	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
20	Effect of clouds on photolysis and oxidants in the troposphere. Journal of Geophysical Research, 2003, 108, .	3.3	240
21	Climate Change Projections for the Twenty-First Century and Climate Change Commitment in the CCSM3. Journal of Climate, 2006, 19, 2597-2616.	1.2	239
22	Achieving Climate Change Absolute Accuracy in Orbit. Bulletin of the American Meteorological Society, 2013, 94, 1519-1539.	1.7	239
23	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.	1.3	233
24	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
25	Improvements of top-of-atmosphere and surface irradiance computations with CALIPSO-, CloudSat-, and MODIS-derived cloud and aerosol properties. Journal of Geophysical Research, 2011, 116, .	3.3	208
26	Impact of ocean model resolution on CCSM climate simulations. Climate Dynamics, 2012, 39, 1303-1328.	1.7	181
27	Observational determination of surface radiative forcing by CO2 from 2000 to 2010. Nature, 2015, 519, 339-343.	13.7	174
28	Direct observations of aerosol radiative forcing over the tropical Indian Ocean during the January-February 1996 pre-INDOEX cruise. Journal of Geophysical Research, 1998, 103, 13827-13836.	3.3	170
29	Application of the CALIOP layer product to evaluate the vertical distribution of aerosols estimated by global models: AeroCom phase I results. Journal of Geophysical Research, 2012, 117, .	3.3	170
30	Understanding the Indian Ocean Experiment (INDOEX) aerosol distributions with an aerosol assimilation. Journal of Geophysical Research, 2001, 106, 7337-7355.	3.3	168
31	The Climate Sensitivity of the Community Climate System Model Version 3 (CCSM3). Journal of Climate, 2006, 19, 2584-2596.	1.2	159
32	Effective radiative forcing and adjustments in CMIP6 models. Atmospheric Chemistry and Physics, 2020, 20, 9591-9618.	1.9	149
33	Parameterization of Generalized Cloud Overlap for Radiative Calculations in General Circulation Models. Journals of the Atmospheric Sciences, 2001, 58, 3224-3242.	0.6	134
34	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, .	1.5	134
35	The ScaRaB Earth Radiation Budget Dataset. Bulletin of the American Meteorological Society, 1998, 79, 765-783.	1.7	130
36	Response of the NCAR Climate System Model to Increased CO2and the Role of Physical Processes. Journal of Climate, 2000, 13, 1879-1898.	1.2	126

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37	Dust and pollution transport on global scales: Aerosol measurements and model predictions. Journal of Geophysical Research, 2001, 106, 32555-32569.	3.3	116
38	A fast and objective multidimensional kernel density estimation method: fastKDE. Computational Statistics and Data Analysis, 2016, 101, 148-160.	0.7	107
39	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.	1.2	106
40	A low-to-no snow future and its impacts on water resources in the western United States. Nature Reviews Earth & Environment, 2021, 2, 800-819.	12.2	106
41	Simulation of aerosol distributions and radiative forcing for INDOEX: Regional climate impacts. Journal of Geophysical Research, 2002, 107, INX2 27-1.	3.3	88
42	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.	0.6	85
43	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
44	Climatology of Upper-Tropospheric Relative Humidity from the Atmospheric Infrared Sounder and Implications for Climate. Journal of Climate, 2006, 19, 6104-6121.	1.2	83
45	Atmospheric absorption during the Atmospheric Radiation Measurement (ARM) Enhanced Shortwave Experiment (ARESE). Journal of Geophysical Research, 1997, 102, 29901-29915.	3.3	77
46	Radiative and Dynamical Feedbacks over the Equatorial Cold Tongue: Results from Nine Atmospheric GCMs. Journal of Climate, 2006, 19, 4059-4074.	1.2	76
47	PORT, a CESM tool for the diagnosis of radiative forcing. Geoscientific Model Development, 2013, 6, 469-476.	1.3	74
48	An Independent Assessment of Anthropogenic Attribution Statements for Recent Extreme Temperature and Rainfall Events. Journal of Climate, 2017, 30, 5-16.	1.2	71
49	Impact of horizontal resolution on simulation of precipitation extremes in an aqua-planet version of Community Atmospheric Model (CAM3). Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 63, 884.	0.8	68
50	Reducing uncertainties in climate models. Science, 2018, 361, 326-327.	6.0	64
51	Resolution dependence of precipitation statistical fidelity in hindcast simulations. Journal of Advances in Modeling Earth Systems, 2016, 8, 976-990.	1.3	60
52	PARAGON: An Integrated Approach for Characterizing Aerosol Climate Impacts and Environmental Interactions. Bulletin of the American Meteorological Society, 2004, 85, 1491-1502.	1.7	59
53	Greenhouse Gas Policy Influences Climate via Direct Effects of Land-Use Change. Journal of Climate, 2013, 26, 3657-3670.	1.2	59
54	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, .	1.5	57

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55	â€œSuperâ€parameterizationâ€: A better way to simulate regional extreme precipitation?. Journal of Advances in Modeling Earth Systems, 2012, 4, .	1.3	57
56	Diagnosing conditional anthropogenic contributions to heavy Colorado rainfall in September 2013. Weather and Climate Extremes, 2017, 17, 1-6.	1.6	55
57	Maximizing ENSO as a source of western US hydroclimate predictability. Climate Dynamics, 2020, 54, 351-372.	1.7	52
58	The Physical Science behind Climate Change. Scientific American, 2007, 297, 64-73.	1.0	51
59	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.	1.3	49
60	A multimodel intercomparison of resolution effects on precipitation: simulations and theory. Climate Dynamics, 2016, 47, 2205-2218.	1.7	49
61	Observed Scaling in Clouds and Precipitation and Scale Incognizance in Regional to Global Atmospheric Models. Journal of Climate, 2013, 26, 9313-9333.	1.2	46
62	Far-infrared surface emissivity and climate. Proceedings of the National Academy of Sciences of the United States of America, 2014, 111, 16297-16302.	3.3	46
63	Biospheric feedback effects in a synchronously coupled model of human and Earth systems. Nature Climate Change, 2017, 7, 496-500.	8.1	46
64	ESD Reviews: Climate feedbacks in the Earth system and prospects for their evaluation. Earth System Dynamics, 2019, 10, 379-452.	2.7	46
65	A Hierarchical Evaluation of Regional Climate Simulations. Eos, 2013, 94, 297-298.	0.1	44
66	The integrated Earth system model version 1: formulation and functionality. Geoscientific Model Development, 2015, 8, 2203-2219.	1.3	44
67	ClimateNet: an expert-labeled open dataset and deep learning architecture for enabling high-precision analyses of extreme weather. Geoscientific Model Development, 2021, 14, 107-124.	1.3	43
68	Investigation of Regional and Seasonal Variations in Marine Boundary Layer Cloud Properties from MODIS Observations. Journal of Climate, 2008, 21, 4955-4973.	1.2	42
69	On the additivity of radiative forcing between land use change and greenhouse gases. Geophysical Research Letters, 2013, 40, 4036-4041.	1.5	41
70	Atmospheric Radiation Measurements Enhanced Shortwave Experiment (ARESE): Experimental and data details. Journal of Geophysical Research, 1997, 102, 29929-29937.	3.3	40
71	An integrated assessment of water-energy and climate change in sacramento, california: how strong is the nexus?. Climatic Change, 2015, 132, 223-235.	1.7	40
72	CLARREO shortwave observing system simulation experiments of the twenty-first century: Simulator design and implementation. Journal of Geophysical Research, 2011, 116, .	3.3	39

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73	An estimate of the surface shortwave cloud forcing over the western Pacific during TOGA COARE. Geophysical Research Letters, 1996, 23, 519-522.	1.5	38
74	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.	0.7	38
75	The ScaRaBâ€“Resurs Earth Radiation Budget Dataset and First Results. Bulletin of the American Meteorological Society, 2001, 82, 1397-1408.	1.7	37
76	Observationally derived rise in methane surface forcing mediated by water vapour trends. Nature Geoscience, 2018, 11, 238-243.	5.4	37
77	A global signature of enhanced shortwave absorption by clouds. Journal of Geophysical Research, 1998, 103, 31669-31679.	3.3	35
78	A case study of subdaily simulated and observed continental convective precipitation: CMIP5 and multiscale global climate models comparison. Geophysical Research Letters, 2013, 40, 5999-6003.	1.5	33
79	A probabilistic gridded product for daily precipitation extremes over the United States. Climate Dynamics, 2019, 53, 2517-2538.	1.7	32
80	Mechanics of apparent horizons. Physical Review D, 1992, 45, 495-498.	1.6	30
81	The robust dynamical contribution to precipitation extremes in idealized warming simulations across model resolutions. Geophysical Research Letters, 2014, 41, 2971-2978.	1.5	29
82	A basis set for exploration of sensitivity to prescribed ocean conditions for estimating human contributions to extreme weather in CAM5.1-1degree. Weather and Climate Extremes, 2018, 19, 10-19.	1.6	29
83	Thermostat and global warming. Nature, 1992, 357, 649-649.	13.7	28
84	Indian Ocean Low Clouds during the Winter Monsoon. Journal of Climate, 2000, 13, 2028-2043.	1.2	28
85	Accounting for radiative forcing from albedo change in future global land-use scenarios. Climatic Change, 2015, 131, 691-703.	1.7	28
86	Sensitivity of Mountain Hydroclimate Simulations in Variableâ€Resolution CESM to Microphysics and Horizontal Resolution. Journal of Advances in Modeling Earth Systems, 2018, 10, 1357-1380.	1.3	28
87	Response of precipitation extremes to idealized global warming in an aqua-planet climate model: towards a robust projection across different horizontal resolutions. Tellus, Series A: Dynamic Meteorology and Oceanography, 2011, 63, 876-883.	0.8	26
88	Quantifying the Effects of Historical Land Cover Conversion Uncertainty on Global Carbon and Climate Estimates. Geophysical Research Letters, 2018, 45, 974-982.	1.5	26
89	Evaluation of extreme sub-daily precipitation in high-resolution global climate model simulations. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2021, 379, 20190545.	1.6	26
90	Equity is more important for the social cost of methane than climate uncertainty. Nature, 2021, 592, 564-570.	13.7	26

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91	Effects of increased near-infrared absorption by water vapor on the climate system. Journal of Geophysical Research, 2006, 111, .	3.3	25
92	Uncertainties in Atmospheric River Lifecycles by Detection Algorithms: Climatology and Variability. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033711.	1.2	24
93	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
94	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.	1.3	23
95	Validation of Clear-Sky Fluxes for Tropical Oceans from the Earth Radiation Budget Experiment. Journal of Climate, 1995, 8, 569-578.	1.2	22
96	Radiative effects of convection in the tropical Pacific. Journal of Geophysical Research, 1996, 101, 14999-15012.	3.3	22
97	Forest response to increased disturbance in the central Amazon and comparison to western Amazonian forests. Biogeosciences, 2014, 11, 5773-5794.	1.3	22
98	Simultaneous characterization of mesoscale and convectiveâ€scale tropical rainfall extremes and their dynamical and thermodynamic modes of change. Journal of Advances in Modeling Earth Systems, 2017, 9, 2103-2119.	1.3	22
99	First-Order Structure Function Analysis of Statistical Scale Invariance in the AIRS-Observed Water Vapor Field. Journal of Climate, 2012, 25, 5538-5555.	1.2	20
100	The spectroscopic foundation of radiative forcing of climate by carbon dioxide. Geophysical Research Letters, 2016, 43, 5318-5325.	1.5	20
101	Evaluation of hydrologic components of community land model 4 and bias identification. International Journal of Applied Earth Observation and Geoinformation, 2016, 48, 5-16.	1.4	19
102	Monitoring Methane Emissions from Oil and Gas Operations. , 2022, 1, .		19
103	Direct Radiometric Observations of the Water Vapor Greenhouse Effect Over the Equatorial Pacific Ocean. Science, 1997, 275, 1773-1776.	6.0	18
104	An Intercomparison of GCM and RCM Dynamical Downscaling for Characterizing the Hydroclimatology of California and Nevada. Journal of Hydrometeorology, 2018, 19, 1485-1506.	0.7	18
105	A thermostat in the tropics?. Nature, 1993, 361, 410-411.	13.7	17
106	Relating Satellite-Observed Cloud Properties from MODIS to Meteorological Conditions for Marine Boundary Layer Clouds. Journal of Climate, 2010, 23, 1374-1391.	1.2	17
107	Simulation studies for the detection of changes in broadband albedo and shortwave nadir reflectance spectra under a climate change scenario. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	17
108	Climate response due to carbonaceous aerosols and aerosol-induced SST effects in NCAR community atmospheric model CAM3.5. Atmospheric Chemistry and Physics, 2013, 13, 7489-7510.	1.9	17

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109	Large regional shortwave forcing by anthropogenic methane informed by Jovian observations. Science Advances, 2018, 4, eaas9593.	4.7	16
110	Relationship between clear-sky atmospheric greenhouse effect and deep convection during the Central Equatorial Pacific Experiment: Model calculations and satellite observations. Journal of Geophysical Research, 1994, 99, 25891.	3.3	15
111	The role of water vapor and convection during the Central Equatorial Pacific Experiment from observations and model simulations. Journal of Geophysical Research, 1995, 100, 26229.	3.3	15
112	Origins of climate model discrepancies in atmospheric shortwave absorption and global precipitation changes. Geophysical Research Letters, 2015, 42, 8749-8757.	1.5	15
113	Quantitative comparison of the variability in observed and simulated shortwave reflectance. Atmospheric Chemistry and Physics, 2013, 13, 3133-3147.	1.9	14
114	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.	1.9	14
115	Global simulations of aerosol amount and size using MODIS observations assimilated with an Ensemble Kalman Filter. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,780.	1.2	13
116	Pan-spectral observing system simulation experiments of shortwave reflectance and long-wave radiance for climate model evaluation. Geoscientific Model Development, 2015, 8, 1943-1954.	1.3	13
117	Sources of Subseasonalâ€Toâ€Seasonal Predictability of Atmospheric Rivers and Precipitation in the Western United States. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034053.	1.2	13
118	The theory of magnetohydrodynamic wave generation by localized sources. II - Collisionless dissipation of wave packets. Astrophysical Journal, 1989, 343, 499.	1.6	13
119	Characterization of extreme precipitation within atmospheric river events over California. Advances in Statistical Climatology, Meteorology and Oceanography, 2015, 1, 45-57.	0.6	13
120	Detection of atmospheric rivers with inline uncertainty quantification: TECA-BARD v1.0.1. Geoscientific Model Development, 2020, 13, 6131-6148.	1.3	13
121	Hurricanes in an aquaplanet world: Implications of the impacts of external forcing and model horizontal resolution. Journal of Advances in Modeling Earth Systems, 2013, 5, 134-145.	1.3	12
122	Detected Changes in Precipitation Extremes at Their Native Scales Derived from In Situ Measurements. Journal of Climate, 2019, 32, 8087-8109.	1.2	12
123	The theory of magnetohydrodynamic wave generation by localized sources. III - Efficiency of plasma heating by dissipation of far-field waves. Astrophysical Journal, 1992, 384, 319.	1.6	12
124	The Influence of Ocean Coupling on Simulated and Projected Tropical Cyclone Precipitation in the HighResMIPâ€“PRIMAVERA Simulations. Geophysical Research Letters, 2021, 48, e2021GL094801.	1.5	12
125	Thermal production of superheavy magnetic monopoles in the new inflationary-Universe scenario. Physical Review D, 1984, 29, 2158-2161.	1.6	11
126	Comparison of Tropical Oceanâ€“Atmosphere Fluxes with the NCAR Community Climate Model CCM3*. Journal of Climate, 1997, 10, 3047-3058.	1.2	11

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127	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.	1.7	11
128	Using surface remote sensors to derive radiative characteristics of Mixed-Phase Clouds: an example from M-PACE. Atmospheric Chemistry and Physics, 2011, 11, 11937-11949.	1.9	11
129	The theory of magnetohydrodynamic wave generation by localized sources. I - General asymptotic theory. Astrophysical Journal, 1989, 337, 548.	1.6	11
130	Effects of Enhanced Shortwave Absorption on Coupled Simulations of the Tropical Climate System. Journal of Climate, 2001, 14, 1147-1165.	1.2	10
131	Quantifying the influence of natural climate variability on in situ measurements of seasonal total and extreme daily precipitation. Climate Dynamics, 2021, 56, 3205-3230.	1.7	10
132	Extension of the weak-line approximation and application to correlated-k methods. Journal of Quantitative Spectroscopy and Radiative Transfer, 2011, 112, 1525-1532.	1.1	9
133	TECA: Petascale Pattern Recognition for Climate Science. Lecture Notes in Computer Science, 2015, , 426-436.	1.0	9
134	Local and Remote Climate Impacts from Expansion of Woody Biomass for Bioenergy Feedstock in the Southeastern United States. Journal of Climate, 2012, 25, 7643-7659.	1.2	8
135	A New Paradigm for Diagnosing Contributions to Model Aerosol Forcing Error. Geophysical Research Letters, 2017, 44, 12,004.	1.5	8
136	Prognostic Power of Extreme Rainfall Scaling Formulas Across Space and Time Scales. Journal of Advances in Modeling Earth Systems, 2018, 10, 3252-3267.	1.3	8
137	Distortions of the Rain Distribution With Warming, With and Without Selfâ€Aggregation. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002256.	1.3	8
138	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
139	On the Usage of Spectral and Broadband Satellite Instrument Measurements to Differentiate Climate Models with Different Cloud Feedback Strengths. Journal of Climate, 2013, 26, 6561-6574.	1.2	7
140	Quantifying Humanâ€Mediated Carbon Cycle Feedbacks. Geophysical Research Letters, 2018, 45, 11,370.	1.5	7
141	Detecting tropical convection using AVHRR satellite data. Journal of Geophysical Research, 1999, 104, 9213-9228.	3.3	6
142	Interannual variability of the Earth's spectral solar reflectance from measurements and simulations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 4458-4470.	1.2	6
143	The spatial scale dependence of water vapor variability inferred from observations from a very tall tower. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9822-9837.	1.2	6
144	Statistical uncertainty of eddy covariance CO2 fluxes inferred using a residual bootstrap approach. Agricultural and Forest Meteorology, 2015, 206, 163-171.	1.9	6

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145	The Impact of ARM on Climate Modeling. Meteorological Monographs, 2016, 57, 26.1-26.16.	5.0	6
146	Quantitative Precipitation Estimation of Extremes in CONUS With Radar Data. Geophysical Research Letters, 2021, 48, e2021GL094697.	1.5	6
147	Temporal variability of observed and simulated hyperspectral reflectance. Journal of Geophysical Research D: Atmospheres, 2014, 119, 10,262.	1.2	5
148	Optimization of the Eddyâ€Diffusivity/Massâ€Flux Shallow Cumulus and Boundaryâ€Layer Parameterization Using Surrogate Models. Journal of Advances in Modeling Earth Systems, 2019, 11, 402-416.	1.3	5
149	Monitoring methane emissions from oil and gas operations^{â€¡}. Optics Express, 2022, 30, 24326.	1.7	5
150	Comment on the Paper â€œAn inquiry into the cirrus-cloud thermostat effect for tropical sea surface temperatureâ€•by K. M. Lau, C. H. Sui, M. D. Chou and W. K. Tau. Geophysical Research Letters, 1994, 21, 1185-1186.	1.5	4
151	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
152	Global transport of passive tracers in conventional and superparameterized climate models: Evaluation of multiâ€scale methods. Journal of Advances in Modeling Earth Systems, 2012, 4, .	1.3	4
153	Spherical Harmonic Spectral Estimation on Arbitrary Grids. Monthly Weather Review, 2017, 145, 3355-3363.	0.5	4
154	Constraining and Characterizing the Size of Atmospheric Rivers: A Perspective Independent From the Detection Algorithm. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033746.	1.2	4
155	A framework for detection and attribution of regional precipitation change: Application to the United States historical record. Climate Dynamics, 2023, 60, 705-741.	1.7	4
156	Microphysical Sensitivity of Superparameterized Precipitation Extremes in the Contiguous United States Due to Feedbacks on Largeâ€Scale Circulation. Earth and Space Science, 2020, 7, e2019EA000731.	1.1	3
157	Global dust simulations in the multiscale modeling framework. Journal of Advances in Modeling Earth Systems, 2013, 5, 15-31.	1.3	2
158	Progress in Fast, Accurate Multi-scale Climate Simulations. Procedia Computer Science, 2015, 51, 2006-2015.	1.2	2
159	ENSO regulation of farâ€and midâ€infrared contributions to clearâ€sky OLR. Geophysical Research Letters, 2016, 43, 8751-8759.	1.5	2
160	An Investigation Into Biases in Instantaneous Aerosol Radiative Effects Calculated by Shortwave Parameterizations in Two Earth System Models. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2019JD032323.	1.2	2
161	From research to action on climate change. Frontiers in Ecology and the Environment, 2015, 13, 459-459.	1.9	0
162	Global Microphysical Sensitivity of Superparameterized Precipitation Extremes. Earth and Space Science, 2021, 8, e2020EA001308.	1.1	0

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163	Chapter 3. Science and Pathways for Bending the Curve. Collabra, 2016, 2, .	1.3	0
164	Observing Climate Change With Both Shortwave and Longwave Hyperspectral Satellite Instrumentation. , 2016, , .		0