

William Collins

List of Publications by Citations

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166
papers

20,775
citations

50
h-index

143
g-index

183
ext. papers

23,156
ext. citations

7.7
avg, IF

6.21
L-index

#	Paper	IF	Citations
166	The NCEP-NCAR 50-Year Reanalysis: Monthly Means CDROM and Documentation. <i>Bulletin of the American Meteorological Society</i> , 2001 , 82, 247-267	6.1	3331
165	Radiative forcing by long-lived greenhouse gases: Calculations with the AER radiative transfer models. <i>Journal of Geophysical Research</i> , 2008 , 113,		2260
164	The Community Climate System Model Version 3 (CCSM3). <i>Journal of Climate</i> , 2006 , 19, 2122-2143	4.4	1917
163	The Community Earth System Model: A Framework for Collaborative Research. <i>Bulletin of the American Meteorological Society</i> , 2013 , 94, 1339-1360	6.1	1412
162	Indian Ocean Experiment: An integrated analysis of the climate forcing and effects of the great Indo-Asian haze. <i>Journal of Geophysical Research</i> , 2001 , 106, 28371-28398		1041
161	The Formulation and Atmospheric Simulation of the Community Atmosphere Model Version 3 (CAM3). <i>Journal of Climate</i> , 2006 , 19, 2144-2161	4.4	812
160	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	6.3	648
159	An AeroCom initial assessment of optical properties in aerosol component modules of global models. <i>Atmospheric Chemistry and Physics</i> , 2006 , 6, 1815-1834	6.8	575
158	Thermodynamic regulation of ocean warming by cirrus clouds deduced from observations of the 1987 El Niño. <i>Nature</i> , 1991 , 351, 27-32	50.4	561
157	Anthropogenic and Natural Radiative Forcing		472
156	How much more global warming and sea level rise?. <i>Science</i> , 2005 , 307, 1769-72	33.3	458
155	Effects of Black Carbon Aerosols on the Indian Monsoon. <i>Journal of Climate</i> , 2008 , 21, 2869-2882	4.4	344
154	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	4.6	282
153	Evaluation of Climate Models		264
152	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	4.4	252
151	Simulating aerosols using a chemical transport model with assimilation of satellite aerosol retrievals: Methodology for INDOEX. <i>Journal of Geophysical Research</i> , 2001 , 106, 7313-7336		248
150	Amplification of surface temperature trends and variability in the tropical atmosphere. <i>Science</i> , 2005 , 309, 1551-6	33.3	229

149	Assessing future nitrogen deposition and carbon cycle feedback using a multimodel approach: Analysis of nitrogen deposition. <i>Journal of Geophysical Research</i> , 2005 , 110,		221
148	Climate Change Projections for the Twenty-First Century and Climate Change Commitment in the CCSM3. <i>Journal of Climate</i> , 2006 , 19, 2597-2616	4.4	220
147	Effect of clouds on photolysis and oxidants in the troposphere. <i>Journal of Geophysical Research</i> , 2003 , 108,		208
146	Taking climate model evaluation to the next level. <i>Nature Climate Change</i> , 2019 , 9, 102-110	21.4	200
145	Achieving Climate Change Absolute Accuracy in Orbit. <i>Bulletin of the American Meteorological Society</i> , 2013 , 94, 1519-1539	6.1	183
144	Radiative forcing by well-mixed greenhouse gases: Estimates from climate models in the Intergovernmental Panel on Climate Change (IPCC) Fourth Assessment Report (AR4). <i>Journal of Geophysical Research</i> , 2006 , 111,		183
143	The effect of horizontal resolution on simulation quality in the Community Atmospheric Model, CAM5.1. <i>Journal of Advances in Modeling Earth Systems</i> , 2014 , 6, 980-997	7.1	178
142	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,		174
141	Impact of ocean model resolution on CCSM climate simulations. <i>Climate Dynamics</i> , 2012 , 39, 1303-1328	4.2	151
140	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		150
139	The Climate Sensitivity of the Community Climate System Model Version 3 (CCSM3). <i>Journal of Climate</i> , 2006 , 19, 2584-2596	4.4	148
138	Understanding the Indian Ocean Experiment (INDOEX) aerosol distributions with an aerosol assimilation. <i>Journal of Geophysical Research</i> , 2001 , 106, 7337-7355		145
137	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, n/a-n/a		137
136	Observational determination of surface radiative forcing by CO ₂ from 2000 to 2010. <i>Nature</i> , 2015 , 519, 339-43	50.4	127
135	Climate response and radiative forcing from mineral aerosols during the last glacial maximum, pre-industrial, current and doubled-carbon dioxide climates. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	119
134	Parameterization of Generalized Cloud Overlap for Radiative Calculations in General Circulation Models. <i>Journals of the Atmospheric Sciences</i> , 2001 , 58, 3224-3242	2.1	119
133	Response of the NCAR Climate System Model to Increased CO ₂ and the Role of Physical Processes. <i>Journal of Climate</i> , 2000 , 13, 1879-1898	4.4	112
132	Dust and pollution transport on global scales: Aerosol measurements and model predictions. <i>Journal of Geophysical Research</i> , 2001 , 106, 32555-32569		100

131	The ScaRaB Earth Radiation Budget Dataset. <i>Bulletin of the American Meteorological Society</i> , 1998 , 79, 765-783	6.1	100
130	Resolution Dependence of Future Tropical Cyclone Projections of CAM5.1 in the U.S. CLIVAR Hurricane Working Group Idealized Configurations. <i>Journal of Climate</i> , 2015 , 28, 3905-3925	4.4	90
129	Simulation of aerosol distributions and radiative forcing for INDOEX: Regional climate impacts. <i>Journal of Geophysical Research</i> , 2002 , 107, INX2 27-1		76
128	Long-Term Behavior of Cloud Systems in TOGA COARE and Their Interactions with Radiative and Surface Processes. Part II: Effects of Ice Microphysics on Cloud Radiation Interaction. <i>Journals of the Atmospheric Sciences</i> , 1999 , 56, 3177-3195	2.1	73
127	Climatology of Upper-Tropospheric Relative Humidity from the Atmospheric Infrared Sounder and Implications for Climate. <i>Journal of Climate</i> , 2006 , 19, 6104-6121	4.4	71
126	An updated parameterization for infrared emission and absorption by water vapor in the National Center for Atmospheric Research Community Atmosphere Model. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 17-1		71
125	Atmospheric absorption during the Atmospheric Radiation Measurement (ARM) Enhanced Shortwave Experiment (ARESE). <i>Journal of Geophysical Research</i> , 1997 , 102, 29901-29915		68
124	Radiative and Dynamical Feedbacks over the Equatorial Cold Tongue: Results from Nine Atmospheric GCMs. <i>Journal of Climate</i> , 2006 , 19, 4059-4074	4.4	67
123	Effective radiative forcing and adjustments in CMIP6 models. <i>Atmospheric Chemistry and Physics</i> , 2020 , 20, 9591-9618	6.8	66
122	A fast and objective multidimensional kernel density estimation method: fastKDE. <i>Computational Statistics and Data Analysis</i> , 2016 , 101, 148-160	1.6	65
121	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> , 2011 , 63, 884-892	2	63
120	An Independent Assessment of Anthropogenic Attribution Statements for Recent Extreme Temperature and Rainfall Events. <i>Journal of Climate</i> , 2017 , 30, 5-16	4.4	58
119	Greenhouse Gas Policy Influences Climate via Direct Effects of Land-Use Change. <i>Journal of Climate</i> , 2013 , 26, 3657-3670	4.4	55
118	PORT, a CESM tool for the diagnosis of radiative forcing. <i>Geoscientific Model Development</i> , 2013 , 6, 469-476	4.4	54
117	Super-parameterization—A better way to simulate regional extreme precipitation?. <i>Journal of Advances in Modeling Earth Systems</i> , 2012 , 4, n/a-n/a	7.1	52
116	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. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	49
115	PARAGON: An Integrated Approach for Characterizing Aerosol Climate Impacts and Environmental Interactions. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 1491-1502	6.1	49
114	Resolution dependence of precipitation statistical fidelity in hindcast simulations. <i>Journal of Advances in Modeling Earth Systems</i> , 2016 , 8, 976-990	7.1	45

113	Reducing uncertainties in climate models. <i>Science</i> , 2018 , 361, 326-327	33.3	42
112	The integrated Earth system model version 1: formulation and functionality. <i>Geoscientific Model Development</i> , 2015 , 8, 2203-2219	6.3	42
111	Observed Scaling in Clouds and Precipitation and Scale Incognizance in Regional to Global Atmospheric Models. <i>Journal of Climate</i> , 2013 , 26, 9313-9333	4.4	40
110	From land use to land cover: restoring the afforestation signal in a coupled integrated assessment Earth system model and the implications for CMIP5 RCP simulations. <i>Biogeosciences</i> , 2014 , 11, 6435-6450	4.6	39
109	Investigation of Regional and Seasonal Variations in Marine Boundary Layer Cloud Properties from MODIS Observations. <i>Journal of Climate</i> , 2008 , 21, 4955-4973	4.4	39
108	A multimodel intercomparison of resolution effects on precipitation: simulations and theory. <i>Climate Dynamics</i> , 2016 , 47, 2205-2218	4.2	37
107	On the additivity of radiative forcing between land use change and greenhouse gases. <i>Geophysical Research Letters</i> , 2013 , 40, 4036-4041	4.9	37
106	Atmospheric Radiation Measurements Enhanced Shortwave Experiment (ARESE): Experimental and data details. <i>Journal of Geophysical Research</i> , 1997 , 102, 29929-29937		35
105	Far-infrared surface emissivity and climate. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2014 , 111, 16297-302	11.5	34
104	CLARREO shortwave observing system simulation experiments of the twenty-first century: Simulator design and implementation. <i>Journal of Geophysical Research</i> , 2011 , 116,		34
103	The ScaRaB Resurs Earth Radiation Budget Dataset and First Results. <i>Bulletin of the American Meteorological Society</i> , 2001 , 82, 1397-1408	6.1	34
102	A Hierarchical Evaluation of Regional Climate Simulations. <i>Eos</i> , 2013 , 94, 297-298	1.5	33
101	Diagnosing conditional anthropogenic contributions to heavy Colorado rainfall in September 2013. <i>Weather and Climate Extremes</i> , 2017 , 17, 1-6	6	32
100	Biospheric feedback effects in a synchronously coupled model of human and Earth systems. <i>Nature Climate Change</i> , 2017 , 7, 496-500	21.4	31
99	ESD Reviews: Climate feedbacks in the Earth system and prospects for their evaluation. <i>Earth System Dynamics</i> , 2019 , 10, 379-452	4.8	31
98	A global signature of enhanced shortwave absorption by clouds. <i>Journal of Geophysical Research</i> , 1998 , 103, 31669-31679		29
97	An integrated assessment of water-energy and climate change in sacramento, california: how strong is the nexus?. <i>Climatic Change</i> , 2015 , 132, 223-235	4.5	28
96	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	4.9	28

95	An estimate of the surface shortwave cloud forcing over the western Pacific during TOGA COARE. <i>Geophysical Research Letters</i> , 1996 , 23, 519-522	4.9	28
94	Mechanics of apparent horizons. <i>Physical Review D</i> , 1992 , 45, 495-498	4.9	28
93	Maximizing ENSO as a source of western US hydroclimate predictability. <i>Climate Dynamics</i> , 2020 , 54, 351-372	4.2	28
92	The physical science behind climate change. <i>Scientific American</i> , 2007 , 297, 64-73	0.5	27
91	Accounting for radiative forcing from albedo change in future global land-use scenarios. <i>Climatic Change</i> , 2015 , 131, 691-703	4.5	25
90	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	2	25
89	Observationally derived rise in methane surface forcing mediated by water vapour trends. <i>Nature Geoscience</i> , 2018 , 11, 238-243	18.3	24
88	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	6	24
87	The robust dynamical contribution to precipitation extremes in idealized warming simulations across model resolutions. <i>Geophysical Research Letters</i> , 2014 , 41, 2971-2978	4.9	23
86	Effects of increased near-infrared absorption by water vapor on the climate system. <i>Journal of Geophysical Research</i> , 2006 , 111,		23
85	Indian Ocean Low Clouds during the Winter Monsoon. <i>Journal of Climate</i> , 2000 , 13, 2028-2043	4.4	23
84	Validation of Clear-Sky Fluxes for Tropical Oceans from the Earth Radiation Budget Experiment. <i>Journal of Climate</i> , 1995 , 8, 569-578	4.4	22
83	A probabilistic gridded product for daily precipitation extremes over the United States. <i>Climate Dynamics</i> , 2019 , 53, 2517-2538	4.2	20
82	Reducing the computational cost of the ECF using a nuFFT: A fast and objective probability density estimation method. <i>Computational Statistics and Data Analysis</i> , 2014 , 79, 222-234	1.6	20
81	Thermostat and global warming. <i>Nature</i> , 1992 , 357, 649-649	50.4	20
80	Forest response to increased disturbance in the central Amazon and comparison to western Amazonian forests. <i>Biogeosciences</i> , 2014 , 11, 5773-5794	4.6	18
79	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	4.4	18
78	Sensitivity of MJO propagation to a robust positive Indian Ocean dipole event in the superparameterized CAM. <i>Journal of Advances in Modeling Earth Systems</i> , 2015 , 7, 1901-1917	7.1	17

77	Cloud properties leading to highly reflective tropical cirrus: Interpretations from CEPEX, TOGA COARE, and Kwajalein, Marshall Islands. <i>Journal of Geophysical Research</i> , 1998 , 103, 8805-8812		16
76	A thermostat in the tropics?. <i>Nature</i> , 1993 , 361, 410-411	50.4	16
75	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	7.1	16
74	Quantifying the Effects of Historical Land Cover Conversion Uncertainty on Global Carbon and Climate Estimates. <i>Geophysical Research Letters</i> , 2018 , 45, 974-982	4.9	15
73	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	6.8	15
72	Relating Satellite-Observed Cloud Properties from MODIS to Meteorological Conditions for Marine Boundary Layer Clouds. <i>Journal of Climate</i> , 2010 , 23, 1374-1391	4.4	15
71	Radiative effects of convection in the tropical Pacific. <i>Journal of Geophysical Research</i> , 1996 , 101, 14999-15012		15
70	The effect of vertically-resolved soil biogeochemistry and alternate soil C and N models on C dynamics of CLM4		15
69	Evaluation of hydrologic components of community land model 4 and bias identification. <i>International Journal of Applied Earth Observation and Geoinformation</i> , 2016 , 48, 5-16	7.3	14
68	Simultaneous characterization of mesoscale and convective-scale tropical rainfall extremes and their dynamical and thermodynamic modes of change. <i>Journal of Advances in Modeling Earth Systems</i> , 2017 , 9, 2103-2119	7.1	14
67	Origins of climate model discrepancies in atmospheric shortwave absorption and global precipitation changes. <i>Geophysical Research Letters</i> , 2015 , 42, 8749-8757	4.9	14
66	Direct Radiometric Observations of the Water Vapor Greenhouse Effect Over the Equatorial Pacific Ocean. <i>Science</i> , 1997 , 275, 1773-6	33.3	14
65	A low-to-no snow future and its impacts on water resources in the western United States. <i>Nature Reviews Earth & Environment</i> ,	30.2	14
64	The spectroscopic foundation of radiative forcing of climate by carbon dioxide. <i>Geophysical Research Letters</i> , 2016 , 43, 5318-5325	4.9	14
63	What are the effects of Agro-Ecological Zones and land use region boundaries on land resource projection using the Global Change Assessment Model?. <i>Environmental Modelling and Software</i> , 2016 , 85, 246-265	5.2	13
62	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	6.3	13
61	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		12
60	The theory of magnetohydrodynamic wave generation by localized sources. II - Collisionless dissipation of wave packets. <i>Astrophysical Journal</i> , 1989 , 343, 499	4.7	12

59	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, 12,780-12,806	4.4	11
58	Quantitative comparison of the variability in observed and simulated shortwave reflectance. <i>Atmospheric Chemistry and Physics</i> , 2013 , 13, 3133-3147	6.8	11
57	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		11
56	The integrated Earth System Model (IESM): formulation and functionality		11
55	Pan-spectral observing system simulation experiments of shortwave reflectance and long-wave radiance for climate model evaluation. <i>Geoscientific Model Development</i> , 2015 , 8, 1943-1954	6.3	10
54	Comparison of Tropical Ocean-Atmosphere Fluxes with the NCAR Community Climate Model CCM3*. <i>Journal of Climate</i> , 1997 , 10, 3047-3058	4.4	10
53	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		10
52	Characterization of extreme precipitation within atmospheric river events over California. <i>Advances in Statistical Climatology, Meteorology and Oceanography</i> , 2015 , 1, 45-57	1.5	10
51	The theory of magnetohydrodynamic wave generation by localized sources. I - General asymptotic theory. <i>Astrophysical Journal</i> , 1989 , 337, 548	4.7	10
50	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	4.7	10
49	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	3.7	9
48	Effects of Enhanced Shortwave Absorption on Coupled Simulations of the Tropical Climate System. <i>Journal of Climate</i> , 2001 , 14, 1147-1165	4.4	9
47	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, 20190543	3	9
46	Uncertainties in Atmospheric River Lifecycles by Detection Algorithms: Climatology and Variability. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021 , 126, e2020JD033711	4.4	9
45	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	7.1	8
44	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	6.8	8
43	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	2.1	8
42	Thermal production of superheavy magnetic monopoles in the new inflationary-Universe scenario. <i>Physical Review D</i> , 1984 , 29, 2158-2161	4.9	8

41	Large regional shortwave forcing by anthropogenic methane informed by Jovian observations. <i>Science Advances</i> , 2018 , 4, eaas9593	14.3	8
40	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	4.4	7
39	Comparison of ScaRaB, GOES 8, aircraft, and surface observations of the absorption of solar radiation by clouds. <i>Journal of Geophysical Research</i> , 2002 , 107, ACL 1-1-ACL 1-6		7
38	Detection of atmospheric rivers with inline uncertainty quantification: TECA-BARD v1.0.1. <i>Geoscientific Model Development</i> , 2020 , 13, 6131-6148	6.3	7
37	TECA: Petascale Pattern Recognition for Climate Science. <i>Lecture Notes in Computer Science</i> , 2015 , 426-436		7
36	Quantifying Human-Mediated Carbon Cycle Feedbacks. <i>Geophysical Research Letters</i> , 2018 , 45, 11,370	4.9	7
35	A New Paradigm for Diagnosing Contributions to Model Aerosol Forcing Error. <i>Geophysical Research Letters</i> , 2017 , 44, 12,004	4.9	6
34	Detecting tropical convection using AVHRR satellite data. <i>Journal of Geophysical Research</i> , 1999 , 104, 9213-9228		6
33	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	4.4	6
32	Detected Changes in Precipitation Extremes at Their Native Scales Derived from In Situ Measurements. <i>Journal of Climate</i> , 2019 , 32, 8087-8109	4.4	6
31	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	4.4	5
30	Using the PARAGON Framework to Establish an Accurate, Consistent, and Cohesive Long-Term Aerosol Record. <i>Bulletin of the American Meteorological Society</i> , 2004 , 85, 1535-1548	6.1	5
29	The Impact of ARM on Climate Modeling. <i>Meteorological Monographs</i> , 2016 , 57, 26.1-26.16	5.7	5
28	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	7.1	5
27	Interannual variability of the Earth's spectral solar reflectance from measurements and simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 4458-4470	4.4	4
26	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	4.4	4
25	Temporal variability of observed and simulated hyperspectral reflectance. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014 , 119, 10,262-10,280	4.4	4
24	PORT, a CESM tool for the diagnosis of radiative forcing 2012 ,		4

23	From land use to land cover: restoring the afforestation signal in a coupled integrated assessment Earth system model and the implications for CMIP5 RCP simulations		4
22	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	7.1	4
21	Statistical uncertainty of eddy covariance CO2 fluxes inferred using a residual bootstrap approach. <i>Agricultural and Forest Meteorology</i> , 2015 , 206, 163-171	5.8	3
20	Effective radiative forcing and adjustments in CMIP6 models 2020 ,		3
19	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, n/a-n/a	7.1	3
18	Determination of surface heating by convective cloud systems in the central equatorial Pacific from surface and satellite measurements. <i>Journal of Geophysical Research</i> , 2000 , 105, 14807-14821		3
17	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	4.9	3
16	Forest response to increased disturbance in the Central Amazon and comparison to Western Amazonian forests		3
15	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	3.1	3
14	Quantitative Precipitation Estimation of Extremes in CONUS With Radar Data. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094697	4.9	3
13	Spherical Harmonic Spectral Estimation on Arbitrary Grids. <i>Monthly Weather Review</i> , 2017 , 145, 3355-3363	3.4	2
12	Progress in Fast, Accurate Multi-scale Climate Simulations. <i>Procedia Computer Science</i> , 2015 , 51, 2006-2015	1.5	2
11	Global dust simulations in the multiscale modeling framework. <i>Journal of Advances in Modeling Earth Systems</i> , 2013 , 5, 15-31	7.1	2
10	Equity is more important for the social cost of methane than climate uncertainty. <i>Nature</i> , 2021 , 592, 564-570	50.4	2
9	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	4.2	2
8	Distortions of the Rain Distribution With Warming, With and Without Self-Aggregation. <i>Journal of Advances in Modeling Earth Systems</i> , 2021 , 13, e2020MS002256	7.1	2
7	Climate response due to carbonaceous aerosols and aerosol-induced SST effects in NCAR community atmospheric model CAM3.5		1
6	The Influence of Ocean Coupling on Simulated and Projected Tropical Cyclone Precipitation in the HighResMIPBRIMAVERA Simulations. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094801	4.9	1

5	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	4.4	1
4	ENSO regulation of far- and mid-infrared contributions to clear-sky OLR. <i>Geophysical Research Letters</i> , 2016 , 43, 8751-8759	4.9	1
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