Brian Medeiros

List of Publications by Year
in descending order

54 papers	3,497 citations	147786 31 h-index	168376 53 g-index
61 all docs	61 docs citations	61 times ranked	4034 citing authors

#	Article	IF	Citations
1	Climatology of the planetary boundary layer over the continental United States and Europe. Journal of Geophysical Research, 2012, 117, .	3.3	297
2	Exposing Global Cloud Biases in the Community Atmosphere Model (CAM) Using Satellite Observations and Their Corresponding Instrument Simulators. Journal of Climate, 2012, 25, 5190-5207.	3.2	251
3	Global Climate Impacts of Fixing the Southern Ocean Shortwave Radiation Bias in the Community Earth System Model (CESM). Journal of Climate, 2016, 29, 4617-4636.	3.2	224
4	The Cloud Feedback Model Intercomparison Project (CFMIP) contribution to CMIP6. Geoscientific Model Development, 2017, 10, 359-384.	3.6	186
5	Thermodynamic control of anvil cloud amount. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 8927-8932.	7.1	172
6	The Transpose-AMIP II Experiment and Its Application to the Understanding of Southern Ocean Cloud Biases in Climate Models. Journal of Climate, 2013, 26, 3258-3274.	3.2	168
7	Aquaplanets, Climate Sensitivity, and Low Clouds. Journal of Climate, 2008, 21, 4974-4991.	3.2	159
8	Mixed-phase clouds cause climate model biases in Arctic wintertime temperature inversions. Climate Dynamics, 2014, 43, 289-303.	3.8	133
9	Revealing differences in GCM representations of low clouds. Climate Dynamics, 2011, 36, 385-399.	3.8	124
10	What Controls the Mean Depth of the PBL?. Journal of Climate, 2005, 18, 3157-3172.	3.2	121
11	Challenges and Prospects for Reducing Coupled Climate Model SST Biases in the Eastern Tropical Atlantic and Pacific Oceans: The U.S. CLIVAR Eastern Tropical Oceans Synthesis Working Group. Bulletin of the American Meteorological Society, 2016, 97, 2305-2328.	3.3	116
12	On the Correspondence between Mean Forecast Errors and Climate Errors in CMIP5 Models. Journal of Climate, 2014, 27, 1781-1798.	3.2	110
13	NCAR Release of CAMâ€SE in CESM2.0: A Reformulation of the Spectral Element Dynamical Core in Dryâ€Mass Vertical Coordinates With Comprehensive Treatment of Condensates and Energy. Journal of Advances in Modeling Earth Systems, 2018, 10, 1537-1570.	3.8	91
14	Clouds and Convective Selfâ€Aggregation in a Multimodel Ensemble of Radiativeâ€Convective Equilibrium Simulations. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002138.	3.8	86
15	Using aquaplanets to understand the robust responses of comprehensive climate models to forcing. Climate Dynamics, 2015, 44, 1957-1977.	3.8	79
16	A Characterization of the Present-Day Arctic Atmosphere in CCSM4. Journal of Climate, 2012, 25, 2676-2695.	3.2	77
17	Arctic Inversion Strength in Climate Models. Journal of Climate, 2011, 24, 4733-4740.	3.2	67
18	Processes controlling Southern Ocean shortwave climate feedbacks in CESM. Geophysical Research Letters, 2014, 41, 616-622.	4.0	58

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19	Model Hierarchies for Understanding Atmospheric Circulation. Reviews of Geophysics, 2019, 57, 250-280.	23.0	58
20	The behavior of tradeâ€wind cloudiness in observations and models: The major cloud components and their variability. Journal of Advances in Modeling Earth Systems, 2015, 7, 600-616.	3.8	57
21	Understanding the Varied Influence of Midlatitude Jet Position on Clouds and Cloud Radiative Effects in Observations and Global Climate Models. Journal of Climate, 2016, 29, 9005-9025.	3.2	55
22	The link between extreme precipitation and convective organization in a warming climate: Global radiativeâ€convective equilibrium simulations. Geophysical Research Letters, 2016, 43, 11,445.	4.0	55
23	An Evaluation of the Largeâ€Scale Atmospheric Circulation and Its Variability in CESM2 and Other CMIP Models. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032835.	3.3	55
24	Global Radiativeâ€"Convective Equilibrium in the Community Atmosphere Model, Version 5. Journals of the Atmospheric Sciences, 2015, 72, 2183-2197.	1.7	54
25	Southeast Pacific Stratocumulus in the Community Atmosphere Model. Journal of Climate, 2012, 25, 6175-6192.	3.2	50
26	Low-Cloud Fraction, Lower-Tropospheric Stability, and Large-Scale Divergence. Journal of Climate, 2009, 22, 4827-4844.	3.2	45
27	Observed and modeled patterns of covariability between lowâ€level cloudiness and the structure of the tradeâ€wind layer. Journal of Advances in Modeling Earth Systems, 2015, 7, 1741-1764.	3.8	43
28	Select strengths and biases of models in representing the Arctic winter boundary layer over sea ice: the Larcform 1 single column model intercomparison. Journal of Advances in Modeling Earth Systems, 2016, 8, 1345-1357.	3.8	43
29	Cloud Radiative Feedbacks and El NiÃ±oâ€"Southern Oscillation. Journal of Climate, 2019, 32, 4661-4680.	3.2	35
30	Clouds, radiation, and atmospheric circulation in the presentâ€day climate and under climate change. Wiley Interdisciplinary Reviews: Climate Change, 2021, 12, e694.	8.1	34
31	Clouds at Barbados are representative of clouds across the trade wind regions in observations and climate models. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, E3062-70.	7.1	33
32	Fast and slow shifts of the zonalâ€mean intertropical convergence zone in response to an idealized anthropogenic aerosol. Journal of Advances in Modeling Earth Systems, 2017, 9, 870-892.	3.8	33
33	Reference aquaplanet climate in the <scp>C</scp>ommunity <scp>A</scp>tmosphere <scp>M</scp>odel, <scp>V</scp>ersion 5. Journal of Advances in Modeling Earth Systems, 2016, 8, 406-424.	3.8	32
34	Lowâ€latitude boundary layer clouds as seen by CALIPSO. Journal of Geophysical Research, 2010, 115, .	3.3	31
35	Climate Feedback Variance and the Interaction of Aerosol Forcing and Feedbacks. Journal of Climate, 2016, 29, 6659-6675.	3.2	26
36	Quantifying the Influence of Cloud Radiative Feedbacks on Arctic Surface Warming Using Cloud Locking in an Earth System Model. Geophysical Research Letters, 2020, 47, e2020GL089207.	4.0	25

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37	CO₂ Increase Experiments Using the CESM: Relationship to Climate Sensitivity and Comparison of CESM1 to CESM2. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002120.	3.8	25
38	Atmospheric Blocking and Other Largeâ€Scale Precursor Patterns of Landfalling Atmospheric Rivers in the North Pacific: A CESM2 Study. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11330-11353.	3.3	21
39	A reduced complexity framework to bridge the gap between AGCMs and cloudâ€resolving models. Geophysical Research Letters, 2016, 43, 860-866.	4.0	19
40	Investigating the Influence of Cloud Radiative Effects on the Extratropical Storm Tracks. Geophysical Research Letters, 2019, 46, 7700-7707.	4.0	16
41	Characterizing the North American Monsoon in the Community Atmosphere Model: Sensitivity to Resolution and Topography. Journal of Climate, 2019, 32, 8355-8372.	3.2	15
42	Characteristics of Future Warmer Base States in CESM2. Earth and Space Science, 2020, 7, e2020EA001296.	2.6	14
43	In the Driver's Seat: Rico and Education. Bulletin of the American Meteorological Society, 2007, 88, 1929-1938.	3.3	13
44	Sensitivities of the hydrologic cycle to model physics, grid resolution, and ocean type in the aquaplanet C ommunity A tmosphere M odel. Journal of Advances in Modeling Earth Systems, 2017, 9, 1307-1324.	3.8	12
45	Investigating the Role of Cloudâ€Radiation Interactions in Subseasonal Tropical Disturbances. Geophysical Research Letters, 2020, 47, e2019GL086817.	4.0	11
46	The Meridional Mode in an Idealized Aquaplanet Model: Dependence on the Mean State. Journal of Climate, 2016, 29, 2889-2905.	3.2	8
47	Mean Climate and Tropical Rainfall Variability in Aquaplanet Simulations Using the Model for Prediction Across Scalesâ€Atmosphere. Journal of Advances in Modeling Earth Systems, 2020, 12, e2020MS002102.	3.8	8
48	Investigating the impact of cloud-radiative feedbacks on tropical precipitation extremes. Npj Climate and Atmospheric Science, 2021, 4, .	6.8	8
49	Using Radiative Convective Equilibrium to Explore Clouds and Climate in the Community Atmosphere Model. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002539.	3.8	7
50	When Will MISR Detect Rising High Clouds?. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	7
51	Contributions of atmospheric and oceanic feedbacks to subtropical northeastern sea surface temperature variability. Climate Dynamics, 2019, 53, 6877-6890.	3.8	5
52	Differences in Tropical Rainfall in Aquaplanet Simulations With Resolved or Parameterized Deep Convection. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	4
53	Aquaplanets as a Framework for Examination of Aerosol Effects. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001874.	3.8	3
54	Developing a framework for an interdisciplinary and international climate intervention strategies research program. Bulletin of the American Meteorological Society, 2021, , 1-17.	3.3	0