

Bryce E Harrop

List of Publications by Year in descending order

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Version: 2024-02-01

21
papers

990
citations

687363

13
h-index

713466

21
g-index

23
all docs

23
docs citations

23
times ranked

1546
citing authors

#	ARTICLE	IF	CITATIONS
1	Conservation of Dry Air, Water, and Energy in CAM and Its Potential Impact on Tropical Rainfall. <i>Journal of Climate</i> , 2022, 35, 2895-2917.	3.2	2
2	Better calibration of cloud parameterizations and subgrid effects increases the fidelity of the E3SM Atmosphere Model version 1. <i>Geoscientific Model Development</i> , 2022, 15, 2881-2916.	3.6	17
3	Diurnal Rainfall Response to the Physiological and Radiative Effects of CO ₂ in Tropical Forests in the Energy Exascale Earth System Model v1. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	1
4	The Leading Modes of Asian Summer Monsoon Variability as Pulses of Atmospheric Energy Flow. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091629.	4.0	6
5	Emergence of seasonal delay of tropical rainfall during 1979–2019. <i>Nature Climate Change</i> , 2021, 11, 605-612.	18.8	25
6	Characterizing Tropical Cyclones in the Energy Exascale Earth System Model Version 1. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS002024.	3.8	20
7	The DOE E3SM v1.1 Biogeochemistry Configuration: Description and Simulated Ecosystem–Climate Responses to Historical Changes in Forcing. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001766.	3.8	65
8	Sensitivity of Surface Temperature to Oceanic Forcing via q-Flux Green’s Function Experiments. Part III: Asymmetric Response to Warming and Cooling. <i>Journal of Climate</i> , 2020, 33, 1283-1297.	3.2	10
9	Sub-cloud moist entropy curvature as a predictor for changes in the seasonal cycle of tropical precipitation. <i>Climate Dynamics</i> , 2019, 53, 3463-3479.	3.8	6
10	An Overview of the Atmospheric Component of the Energy Exascale Earth System Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2377-2411.	3.8	168
11	Understanding Monsoonal Water Cycle Changes in a Warmer Climate in E3SMv1 Using a Normalized Cross Moist Stability Framework. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 10826-10843.	3.3	6
12	The DOE E3SM Coupled Model Version 1: Overview and Evaluation at Standard Resolution. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 2089-2129.	3.8	404
13	The Role of Convective Gustiness in Reducing Seasonal Precipitation Biases in the Tropical West Pacific. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 961-970.	3.8	26
14	Parametric Sensitivity and Uncertainty Quantification in the Version 1 of E3SM Atmosphere Model Based on Short Perturbed Parameter Ensemble Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 13,046.	3.3	53
15	Sensitivity of the ITCZ Location to Ocean Forcing Via q-Flux Green’s Function Experiments. <i>Geophysical Research Letters</i> , 2018, 45, 13,116.	4.0	12
16	Sensitivity of Surface Temperature to Oceanic Forcing via q-Flux Green’s Function Experiments. Part II: Feedback Decomposition and Polar Amplification. <i>Journal of Climate</i> , 2018, 31, 6745-6761.	3.2	16
17	The role of cloud radiative heating within the atmosphere on the high cloud amount and top-of-atmosphere cloud radiative effect. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 1391-1410.	3.8	20
18	The Role of Cloud Radiative Heating in Determining the Location of the ITCZ in Aquaplanet Simulations. <i>Journal of Climate</i> , 2016, 29, 2741-2763.	3.2	47

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19	Exploring the impacts of physics and resolution on aquaâ€planet simulations from a nonhydrostatic global variableâ€resolution modeling framework. <i>Journal of Advances in Modeling Earth Systems</i> , 2016, 8, 1751-1768.	3.8	28
20	The Relationship between Atmospheric Convective Radiative Effect and Net Energy Transport in the Tropical Warm Pool. <i>Journal of Climate</i> , 2015, 28, 8620-8633.	3.2	9
21	Testing the Role of Radiation in Determining Tropical Cloud-Top Temperature. <i>Journal of Climate</i> , 2012, 25, 5731-5747.	3.2	37