Samson M Hagos

List of Publications by Year
in descending order

51 papers	1,986 citations	257450 24 h-index	254184 43 g-index
52 all docs	52 docs citations	52 times ranked	2587 citing authors

#	Article	IF	Citations
1	An Observationally Trained Markov Model for MJO Propagation. Geophysical Research Letters, 2022, 49, .	4.0	1
2	The Maddenâ€“Julian Oscillation in the Energy Exascale Earth System Model Version 1. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	1
3	A Machineâ€Learningâ€Assisted Stochastic Cloud Population Model as a Parameterization of Cumulus Convection. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	3
4	Rainâ€Induced Stratification of the Equatorial Indian Ocean and Its Potential Feedback to the Atmosphere. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	3
5	The Influence of Shallow Cloud Populations on Transitions to Deep Convection in the Amazon. Journals of the Atmospheric Sciences, 2022, 79, 723-743.	1.7	2
6	Characterizing the Impact of Atmospheric Rivers on Aerosols in the Western U.S.. Geophysical Research Letters, 2022, 49, .	4.0	3
7	Impact of Rainfall on Tropical Cycloneâ€Induced Sea Surface Cooling. Geophysical Research Letters, 2022, 49, .	4.0	10
8	The Relationship between Precipitation and Precipitable Water in CMIP6 Simulations and Implications for Tropical Climatology and Change. Journal of Climate, 2021, 34, 1587-1600.	3.2	16
9	Convectionâ€Permitting Hindcasting of Diurnal Variation of Meiâ€yu Rainfall Over East China With a Global Variableâ€Resolution Model. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034823.	3.3	6
10	Characterizing Tropical Cyclones in the Energy Exascale Earth System Model Version 1. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002024.	3.8	20
11	Enhanced Predictability of Eastern North Pacific Tropical Cyclone Activity Using the ENSO Longitude Index. Geophysical Research Letters, 2020, 47, e2020GL088849.	4.0	6
12	Characterization of Surface Heterogeneityâ€Induced Convection Using Cluster Analysis. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032550.	3.3	9
13	A Machine Learning Assisted Development of a Model for the Populations of Convective and Stratiform Clouds. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001798.	3.8	8
14	Impacts of Insolation and Soil Moisture on the Seasonality of Interactions Between the Maddenâ€Julian Oscillation and Maritime Continent. Journal of Geophysical Research D: Atmospheres, 2020, 125, .	3.3	2
15	A Zonal Migration of Monsoon Moisture Flux Convergence and the Strength of Maddenâ€Julian Oscillation Events. Geophysical Research Letters, 2019, 46, 8554-8562.	4.0	8
16	South Asian monsoon precipitation in CMIP5: a link between inter-model spread and the representations of tropical convection. Climate Dynamics, 2019, 52, 1049-1061.	3.8	4
17	How Do Microphysical Processes Influence Largeâ€Scale Precipitation Variability and Extremes?. Geophysical Research Letters, 2018, 45, 1661-1667.	4.0	10
18	Large-Scale Environmental Characteristics of MJOs that Strengthen and Weaken over the Maritime Continent. Journal of Climate, 2018, 31, 5731-5748.	3.2	8

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19	A Stochastic Framework for Modeling the Population Dynamics of Convective Clouds. Journal of Advances in Modeling Earth Systems, 2018, 10, 448-465.	3.8	19
20	Structure and Evolution of Mesoscale Convective Systems: Sensitivity to Cloud Microphysics in Convectionâ€Permitting Simulations Over the United States. Journal of Advances in Modeling Earth Systems, 2018, 10, 1470-1494.	3.8	145
21	Sensitivity of U.S. summer precipitation to model resolution and convective parameterizations across gray zone resolutions. Journal of Geophysical Research D: Atmospheres, 2017, 122, 2714-2733.	3.3	93
22	Exploring the effects of a nonhydrostatic dynamical core in highâ€resolution aquaplanet simulations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3245-3265.	3.3	21
23	Moist Process Biases in Simulations of the Maddenâ€“Julian Oscillation Episodes Observed during the AMIE/DYNAMO Field Campaign. Journal of Climate, 2016, 29, 1091-1107.	3.2	7
24	More frequent intense and long-lived storms dominate the springtime trend in central US rainfall. Nature Communications, 2016, 7, 13429.	12.8	191
25	The regional impact of Land-Use Land-cover Change (LULCC) over West Africa from an ensemble of global climate models under the auspices of the WAMME2 project. Climate Dynamics, 2016, 47, 3547-3573.	3.8	31
26	Sources and pathways of the upscale effects on the Southern Hemisphere jet in MPASâ€CAM4 variableâ€resolution simulations. Journal of Advances in Modeling Earth Systems, 2016, 8, 1786-1805.	3.8	30
27	Assessing Impacts of PBL and Surface Layer Schemes in Simulating the Surfaceâ€“Atmosphere Interactions and Precipitation over the Tropical Ocean Using Observations from AMIE/DYNAMO. Journal of Climate, 2016, 29, 8191-8210.	3.2	16
28	The impact of the diurnal cycle on the propagation of <scp>M</scp>addenâ€<scp>J</scp>ulian <scp>O</scp>scillation convection across the <scp>M</scp>aritime <scp>C</scp>ontinent. Journal of Advances in Modeling Earth Systems, 2016, 8, 1552-1564.	3.8	86
29	A projection of changes in landfalling atmospheric river frequency and extreme precipitation over western North America from the Large Ensemble CESM simulations. Geophysical Research Letters, 2016, 43, 1357-1363.	4.0	128
30	Exploring the impacts of physics and resolution on aquaâ€planet simulations from a nonhydrostatic global variableâ€resolution modeling framework. Journal of Advances in Modeling Earth Systems, 2016, 8, 1751-1768.	3.8	28
31	Spatial Variability of the Background Diurnal Cycle of Deep Convection around the GoAmazon2014/5 Field Campaign Sites. Journal of Applied Meteorology and Climatology, 2016, 55, 1579-1598.	1.5	38
32	West African monsoon decadal variability and surface-related forcings: second West African Monsoon Modeling and Evaluation Project Experiment (WAMME II). Climate Dynamics, 2016, 47, 3517-3545.	3.8	39
33	A Retrieval of Tropical Latent Heating Using the 3D Structure of Precipitation Features. Journal of Applied Meteorology and Climatology, 2016, 55, 1965-1982.	1.5	13
34	Dynamical and thermodynamical modulations on future changes of landfalling atmospheric rivers over western North America. Geophysical Research Letters, 2015, 42, 7179-7186.	4.0	153
35	Mechanisms of convective cloud organization by cold pools over tropical warm ocean during the <scp>AMIE/DYNAMO</scp> field campaign. Journal of Advances in Modeling Earth Systems, 2015, 7, 357-381.	3.8	145
36	Resolutionâ€dependent behavior of subgridâ€scale vertical transport in the Z hangâ€M c F arlane convection parameterization. Journal of Advances in Modeling Earth Systems, 2015, 7, 537-550.	3.8	8

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37	Exploring a Multiresolution Approach Using AMIP Simulations. Journal of Climate, 2015, 28, 5549-5574.	3.2	51
38	Resolution and Dynamical Core Dependence of Atmospheric River Frequency in Global Model Simulations. Journal of Climate, 2015, 28, 2764-2776.	3.2	66
39	Toward the Dynamical Convergence on the Jet Stream in Aquaplanet AGCMs. Journal of Climate, 2015, 28, 6763-6782.	3.2	42
40	Evaluation of convectionâ€permitting model simulations of cloud populations associated with the Maddenâ€Julian Oscillation using data collected during the AMIE/DYNAMO field campaign. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,052.	3.3	35
41	Advection, moistening, and shallowâ€toâ€deep convection transitions during the initiation and propagation of <scp>M</scp>addenâ€<scp>J</scp>ulian <scp>O</scp>scillation. Journal of Advances in Modeling Earth Systems, 2014, 6, 938-949.	3.8	41
42	Eddy fluxes and sensitivity of the water cycle to spatial resolution in idealized regional aquaplanet model simulations. Climate Dynamics, 2014, 42, 931-940.	3.8	6
43	Assessment of uncertainties in the response of the African monsoon precipitation to land use change simulated by a regional model. Climate Dynamics, 2014, 43, 2765-2775.	3.8	27
44	The Dependence of ITCZ Structure on Model Resolution and Dynamical Core in Aquaplanet Simulations. Journal of Climate, 2014, 27, 2375-2385.	3.2	36
45	Environment and the Lifetime of Tropical Deep Convection in a Cloud-Permitting Regional Model Simulation. Journals of the Atmospheric Sciences, 2013, 70, 2409-2425.	1.7	25
46	Observed Scaling in Clouds and Precipitation and Scale Incognizance in Regional to Global Atmospheric Models. Journal of Climate, 2013, 26, 9313-9333.	3.2	46
47	Error Characteristics of Two Grid Refinement Approaches in Aquaplanet Simulations: MPAS-A and WRF. Monthly Weather Review, 2013, 141, 3022-3036.	1.4	41
48	Moist Thermodynamics of the Maddenâ€“Julian Oscillation in a Cloud-Resolving Simulation. Journal of Climate, 2011, 24, 5571-5583.	3.2	18
49	Diabatic heating, divergent circulation and moisture transport in the African monsoon system. Quarterly Journal of the Royal Meteorological Society, 2010, 136, 411-425.	2.7	39
50	Bi-modal Structure and Variability of Large-Scale Diabatic Heating in the Tropics. Journals of the Atmospheric Sciences, 2009, 66, 3621-3640.	1.7	59
51	Ocean Warming and Late-Twentieth-Century Sahel Drought and Recovery. Journal of Climate, 2008, 21, 3797-3814.	3.2	143