Hsi-Yen

List of Publications by Year
in descending order

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43	1,747	304368 22	288905 40
papers	citations	h-index	g-index

43	43	43	2216
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Superior Daily and Subâ€Daily Precipitation Statistics for Intense and Longâ€Lived Storms in Global Stormâ€Resolving Models. Geophysical Research Letters, 2022, 49, .	1.5	5
2	A multi-year short-range hindcast experiment with CESM1 for evaluating climate model moist processes from diurnal to interannual timescales. Geoscientific Model Development, 2021, 14, 73-90.	1.3	9
3	Disproportionate control on aerosol burden by light rain. Nature Geoscience, 2021, 14, 72-76.	5.4	39
4	Effects of coupling a stochastic convective parameterization with the Zhangâ€“McFarlane scheme on precipitation simulation in the DOE E3SMv1.0 atmosphere model. Geoscientific Model Development, 2021, 14, 1575-1593.	1.3	13
5	Evaluation of the Causes of Wetâ€Season Dry Biases Over Amazonia in CAM5. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033859.	1.2	6
6	Learning to Correct Climate Projection Biases. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002509.	1.3	19
7	Convectionâ€Permitting Simulations With the E3SM Global Atmosphere Model. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002544.	1.3	23
8	Toward Understanding the Simulated Phase Partitioning of Arctic Singleâ€Layer Mixedâ€Phase Clouds in E3SM. Earth and Space Science, 2020, 7, e2020EA001125.	1.1	14
9	A Hindcast Approach to Diagnosing the Equatorial Pacific Cold Tongue SST Bias in CESM1. Journal of Climate, 2020, 33, 1437-1453.	1.2	10
10	The Summertime Precipitation Bias in E3SM Atmosphere Model Version 1 over the Central United States. Journal of Geophysical Research D: Atmospheres, 2019, 124, 8935-8952.	1.2	14
11	Improved Diurnal Cycle of Precipitation in E3SM With a Revised Convective Triggering Function. Journal of Advances in Modeling Earth Systems, 2019, 11, 2290-2310.	1.3	86
12	Regional Moisture Budget and Landâ€Atmosphere Coupling Over the U.S. Southern Great Plains Inferred From the ARM Longâ€Term Observations. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10091-10108.	1.2	10
13	Evaluating the Bias of South China Sea Summer Monsoon Precipitation Associated with Fast Physical Processes Using a Climate Model Hindcast Approach. Journal of Climate, 2019, 32, 4491-4507.	1.2	13
14	Evaluation of Clouds in Version 1 of the E3SM Atmosphere Model With Satellite Simulators. Journal of Advances in Modeling Earth Systems, 2019, 11, 1253-1268.	1.3	55
15	CAUSES: Diagnosis of the Summertime Warm Bias in CMIP5 Climate Models at the ARM Southern Great Plains Site. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2968-2992.	1.2	33
16	CAUSES: Attribution of Surface Radiation Biases in NWP and Climate Models near the U.S. Southern Great Plains. Journal of Geophysical Research D: Atmospheres, 2018, 123, 3612-3644.	1.2	62
17	Introduction to CAUSES: Description of Weather and Climate Models and Their Nearâ€Surface Temperature Errors in 5Âday Hindcasts Near the Southern Great Plains. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2655-2683.	1.2	53
18	Parametric Sensitivity and Uncertainty Quantification in the Version 1 of E3SM Atmosphere Model Based on Short Perturbed Parameter Ensemble Simulations. Journal of Geophysical Research D: Atmospheres, 2018, 123, 13,046.	1.2	53

#	Article	IF	Citations
19	Automatic tuning of the Community Atmospheric Model (CAM5) by using short-term hindcasts with an improved downhill simplex optimization method. Geoscientific Model Development, 2018, 11, 5189-5201.	1.3	11
20	A Diagnostic <scp>PDF</scp> Cloud Scheme to Improve Subtropical Low Clouds in <scp>NCAR</scp> Community Atmosphere Model (<scp>CAM</scp>5). Journal of Advances in Modeling Earth Systems, 2018, 10, 320-341.	1.3	29
21	CAUSES: On the Role of Surface Energy Budget Errors to the Warm Surface Air Temperature Error Over the Central United States. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2888-2909.	1.2	60
22	Using ARM Observations to Evaluate Climate Model Simulations of Landâ€Atmosphere Coupling on the U.S. Southern Great Plains. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,524.	1.2	24
23	A cloudy planetary boundary layer oscillation arising from the coupling of turbulence with precipitation in climate simulations. Journal of Advances in Modeling Earth Systems, 2017, 9, 1973-1993.	1.3	12
24	Assessment of marine boundary layer cloud simulations in the CAM with CLUBB and updated microphysics scheme based on ARM observations from the Azores. Journal of Geophysical Research D: Atmospheres, 2016, 121, 8472-8492.	1.2	20
25	Vertical structure and physical processes of the Maddenâ€Julian oscillation: Exploring key model physics in climate simulations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4718-4748.	1.2	332
26	How does increasing horizontal resolution in a global climate model improve the simulation of aerosolâ€cloud interactions?. Geophysical Research Letters, 2015, 42, 5058-5065.	1.5	62
27	An improved hindcast approach for evaluation and diagnosis of physical processes in global climate models. Journal of Advances in Modeling Earth Systems, 2015, 7, 1810-1827.	1.3	54
28	Lowâ€cloud characteristics over the tropical western Pacific from ARM observations and CAM5 simulations. Journal of Geophysical Research D: Atmospheres, 2015, 120, 8953-8970.	1.2	10
29	Using regime analysis to identify the contribution of clouds to surface temperature errors in weather and climate models. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 3190-3206.	1.0	22
30	Vertical structure and physical processes of the Maddenâ€Julian oscillation: Linking hindcast fidelity to simulated diabatic heating and moistening. Journal of Geophysical Research D: Atmospheres, 2015, 120, 4690-4717.	1.2	63
31	The parametric sensitivity of CAM5's MJO. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1424-1444.	1.2	51
32	On the Correspondence between Mean Forecast Errors and Climate Errors in CMIP5 Models. Journal of Climate, 2014, 27, 1781-1798.	1.2	110
33	The response of coastal stratocumulus clouds to agricultural irrigation in California. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6044-6051.	1.2	10
34	Characterizing and understanding radiation budget biases in CMIP3/CMIP5 GCMs, contemporary GCM, and reanalysis. Journal of Geophysical Research D: Atmospheres, 2013, 118, 8166-8184.	1.2	127
35	Sensitivity of Global Tropical Climate to Land Surface Processes: Mean State and Interannual Variability. Journal of Climate, 2013, 26, 1818-1837.	1.2	9
36	Metrics and Diagnostics for Precipitation-Related Processes in Climate Model Short-Range Hindcasts. Journal of Climate, 2013, 26, 1516-1534.	1.2	45

#	Article	IF	Citations
37	On the Connection between Continental-Scale Land Surface Processes and the Tropical Climate in a Coupled Oceanâ€“Atmosphereâ€“Land System. Journal of Climate, 2013, 26, 9006-9025.	1.2	9
38	On the Correspondence between Short- and Long-Time-Scale Systematic Errors in CAM4/CAM5 for the Year of Tropical Convection. Journal of Climate, 2012, 25, 7937-7955.	1.2	79
39	Evaluation of an ice cloud parameterization based on a dynamicalâ€microphysical lifetime concept using CloudSat observations and the ERAâ€Interim reanalysis. Journal of Geophysical Research, 2012, 117, .	3.3	12
40	A treatment for the stratocumulus-to-cumulus transition in GCMs. Climate Dynamics, 2012, 39, 3075-3089.	1.7	7
41	Impact of land surface processes on the South American warm season climate. Climate Dynamics, 2011, 37, 187-203.	1.7	25
42	Mechanisms for Precipitation Variability of the Eastern Brazil/SACZ Convective Margin. Journal of Climate, 2011, 24, 3445-3456.	1.2	19
43	Impacts of SST anomalies on the North Atlantic atmospheric circulation: a case study for the northern winter 1995/1996. Climate Dynamics, 2007, 29, 807-819.	1.7	28