Hsi-Yen

List of Publications by Year in descending order

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304368 288905 1,747 43 22 40 citations h-index g-index papers 43 43 43 2216 citing authors all docs docs citations times ranked

#	Article	IF	Citations
1	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
2	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
3	On the Correspondence between Mean Forecast Errors and Climate Errors in CMIP5 Models. Journal of Climate, 2014, 27, 1781-1798.	1.2	110
4	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
5	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
6	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
7	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
8	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
9	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
10	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
11	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
12	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
13	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
14	The parametric sensitivity of CAM5's MJO. Journal of Geophysical Research D: Atmospheres, 2015, 120, 1424-1444.	1.2	51
15	Metrics and Diagnostics for Precipitation-Related Processes in Climate Model Short-Range Hindcasts. Journal of Climate, 2013, 26, 1516-1534.	1.2	45
16	Disproportionate control on aerosol burden by light rain. Nature Geoscience, 2021, 14, 72-76.	5 . 4	39
17	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
18	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

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19	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
20	Impact of land surface processes on the South American warm season climate. Climate Dynamics, 2011, 37, 187-203.	1.7	25
21	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
22	Convectionâ∈Permitting Simulations With the E3SM Global Atmosphere Model. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002544.	1.3	23
23	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
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	Mechanisms for Precipitation Variability of the Eastern Brazil/SACZ Convective Margin. Journal of Climate, 2011, 24, 3445-3456.	1.2	19
26	Learning to Correct Climate Projection Biases. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002509.	1.3	19
27	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
28	Toward Understanding the Simulated Phase Partitioning of Arctic Single‣ayer Mixedâ€Phase Clouds in E3SM. Earth and Space Science, 2020, 7, e2020EA001125.	1.1	14
29	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
30	Effects of coupling a stochastic convective parameterization with the Zhang–McFarlane scheme on precipitation simulation in the DOE E3SMv1.0 atmosphere model. Geoscientific Model Development, 2021, 14, 1575-1593.	1.3	13
31	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
32	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
33	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
34	The response of coastal stratocumulus clouds to agricultural irrigation in California. Journal of Geophysical Research D: Atmospheres, 2013, 118, 6044-6051.	1.2	10
35	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
36	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

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37	A Hindcast Approach to Diagnosing the Equatorial Pacific Cold Tongue SST Bias in CESM1. Journal of Climate, 2020, 33, 1437-1453.	1.2	10
38	Sensitivity of Global Tropical Climate to Land Surface Processes: Mean State and Interannual Variability. Journal of Climate, 2013, 26, 1818-1837.	1.2	9
39	On the Connection between Continental-Scale Land Surface Processes and the Tropical Climate in a Coupled Ocean–Atmosphere–Land System. Journal of Climate, 2013, 26, 9006-9025.	1.2	9
40	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
41	A treatment for the stratocumulus-to-cumulus transition in GCMs. Climate Dynamics, 2012, 39, 3075-3089.	1.7	7
42	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
43	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