Anning Cheng

List of Publications by Year
in descending order

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22 papers	823 citations	516710 16 h-index	677142 22 g-index
22 all docs	22 docs citations	22 times ranked	1003 citing authors

#	Article	IF	Citations
1	CGILS: Results from the first phase of an international project to understand the physical mechanisms of low cloud feedbacks in single column models. Journal of Advances in Modeling Earth Systems, 2013, 5, 826-842.	3.8	140
2	Marine low cloud sensitivity to an idealized climate change: The CGILS LES intercomparison. Journal of Advances in Modeling Earth Systems, 2013, 5, 234-258.	3.8	128
3	Intercomparison and Interpretation of Single-Column Model Simulations of a Nocturnal Stratocumulus-Topped Marine Boundary Layer. Monthly Weather Review, 2005, 133, 2741-2758.	1.4	74
4	Simulation of shallow cumuli and their transition to deep convective clouds by cloud-resolving models with different third-order turbulence closures. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 359-382.	2.7	61
5	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.	3.3	53
6	Improved low-cloud simulation from a multiscale modeling framework with a third-order turbulence closure in its cloud-resolving model component. Journal of Geophysical Research, 2011, 116, .	3.3	39
7	Simulation of Boundary-Layer Cumulus and Stratocumulus Clouds Using a Cloud-Resolving Model with Low-and Third-order Turbulence Closures. Journal of the Meteorological Society of Japan, 2008, 86A, 67-86.	1.8	37
8	Evaluating Low-Cloud Simulation from an Upgraded Multiscale Modeling Framework Model. Part I: Sensitivity to Spatial Resolution and Climatology. Journal of Climate, 2013, 26, 5717-5740.	3.2	33
9	A PDF-Based Microphysics Parameterization for Simulation of Drizzling Boundary Layer Clouds. Journals of the Atmospheric Sciences, 2009, 66, 2317-2334.	1.7	31
10	Evaluating Low-Cloud Simulation from an Upgraded Multiscale Modeling Framework Model. Part II: Seasonal Variations over the Eastern Pacific. Journal of Climate, 2013, 26, 5741-5760.	3.2	30
11	Cloud-Resolving Simulation of Low-Cloud Feedback to an Increase in Sea Surface Temperature. Journals of the Atmospheric Sciences, 2010, 67, 730-748.	1.7	29
12	Improved Low-Cloud Simulation from the Community Atmosphere Model with an Advanced Third-Order Turbulence Closure. Journal of Climate, 2015, 28, 5737-5762.	3.2	29
13	Evaluating Low-Cloud Simulation from an Upgraded Multiscale Modeling Framework Model. Part III: Tropical and Subtropical Cloud Transitions over the Northern Pacific. Journal of Climate, 2013, 26, 5761-5781.	3.2	27
14	Singleâ€Column Model Simulations of Subtropical Marine Boundaryâ€Layer Cloud Transitions Under Weakening Inversions. Journal of Advances in Modeling Earth Systems, 2017, 9, 2385-2412.	3.8	27
15	Mean Structure and Diurnal Cycle of Southeast Atlantic Boundary Layer Clouds: Insights from Satellite Observations and Multiscale Modeling Framework Simulations. Journal of Climate, 2015, 28, 324-341.	3.2	25
16	The Liquid Water Oscillation in Modeling Boundary Layer Cumuli with Third-Order Turbulence Closure Models. Journals of the Atmospheric Sciences, 2004, 61, 1621-1629.	1.7	17
17	Diurnal variability of low clouds in the Southeast Pacific simulated by a multiscale modeling framework model. Journal of Geophysical Research D: Atmospheres, 2013, 118, 9191-9208.	3.3	16
18	An explicit representation of vertical momentum transport in a multiscale modeling framework through its 2â€D cloudâ€resolving model component. Journal of Geophysical Research D: Atmospheres, 2014, 119, 2356-2374.	3.3	13

#	Article	IF	Citations
19	Understanding the tropical cloud feedback from an analysis of the circulation and stability regimes simulated from an upgraded multiscale modeling framework. Journal of Advances in Modeling Earth Systems, 2016, 8, 1825-1846.	3.8	6
20	The Response of Simulated Arctic Mixedâ€Phase Stratocumulus to Sea Ice Cover Variability in the Absence of Largeâ€Scale Advection. Journal of Geophysical Research D: Atmospheres, 2017, 122, 12,335.	3.3	3
21	Differences in the hydrological cycle and sensitivity between multiscale modeling frameworks with and without a higherâ€order turbulence closure. Journal of Advances in Modeling Earth Systems, 2017, 9, 2120-2137.	3.8	3
22	Changes in clouds and atmospheric circulation associated with rapid adjustment induced by increased atmospheric CO2: aÂmultiscale modeling framework study. Climate Dynamics, 2020, 55, 277-293.	3.8	2