Hideaki Kawai

List of Publications by Year
in descending order

26	1,658	471509 17	552781 26
papers	citations	h-index	g-index

37	37	37	2333
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The Meteorological Research Institute Earth System Model Version 2.0, MRI-ESM2.0: Description and Basic Evaluation of the Physical Component. Journal of the Meteorological Society of Japan, 2019, 97, 931-965.	1.8	434
2	Evaluation of cloud and water vapor simulations in CMIP5 climate models using NASA â€œAâ€Trainâ€• satellite observations. Journal of Geophysical Research, 2012, 117, .	3.3	316
3	20-km-Mesh Global Climate Simulations Using JMA-GSM Model —Mean Climate States—. Journal of the Meteorological Society of Japan, 2006, 84, 165-185.	1.8	218
4	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
5	Diagnosis of regimeâ€dependent cloud simulation errors in CMIP5 models using â€œAâ€Trainâ€•satellite observations and reanalysis data. Journal of Geophysical Research D: Atmospheres, 2013, 118, 2762-2780.	3.3	90
6	Significant improvement of cloud representation in the global climate model MRI-ESM2. Geoscientific Model Development, 2019, 12, 2875-2897.	3.6	60
7	Global and Arctic effective radiative forcing of anthropogenic gases and aerosols in MRI-ESM2.0. Progress in Earth and Planetary Science, 2020, 7, .	3.0	56
8	Evaluating the Diurnal Cycle of Upper-Tropospheric Ice Clouds in Climate Models Using SMILES Observations. Journals of the Atmospheric Sciences, 2015, 72, 1022-1044.	1.7	35
9	Interpretation of Factors Controlling Low Cloud Cover and Low Cloud Feedback Using a Unified Predictive Index. Journal of Climate, 2017, 30, 9119-9131.	3.2	35
10	Robustness, uncertainties, and emergent constraints in the radiative responses of stratocumulus cloud regimes to future warming. Climate Dynamics, 2016, 46, 3025-3039.	3.8	31
11	Expected Submillimeter Emission and Dust Properties of Lyman Break Galaxies at High Redshift. Astrophysical Journal, 1999, 517, L19-L22.	4.5	30
12	Probability Density Functions of Liquid Water Path and Cloud Amount of Marine Boundary Layer Clouds: Geographical and Seasonal Variations and Controlling Meteorological Factors. Journal of Climate, 2010, 23, 2079-2092.	3.2	30
13	A Simple Parameterization Scheme for Subtropical Marine Stratocumulus. Scientific Online Letters on the Atmosphere, 2006, 2, 17-20.	1.4	29
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	Probability Density Functions of Liquid Water Path and Total Water Content of Marine Boundary Layer Clouds: Implications for Cloud Parameterization. Journal of Climate, 2012, 25, 2162-2177.	3.2	18
16	Characteristics of the Cloud Top Heights of Marine Boundary Layer Clouds and the Frequency of Marine Fog over Mid-Latitudes. Journal of the Meteorological Society of Japan, 2015, 93, 613-628.	1.8	18
17	The diurnal cycle of marine cloud feedback in climate models. Climate Dynamics, 2015, 44, 1419-1436.	3.8	18
18	Mixing Depth Estimation from Operational JMA and KMA Wind-Profiler Data and its Preliminary Applications: Examples from Four Selected Sites. Journal of the Meteorological Society of Japan, 2011, 89, 15-28.	1.8	14

#	Article	IF	Citations
19	Lowâ€Level Marine Tropical Clouds in Six CMIP6 Models Are Too Few, Too Bright but Also Too Compact and Too Homogeneous. Geophysical Research Letters, 2022, 49, .	4.0	12
20	Changes in marine fog in a warmer climate. Atmospheric Science Letters, 2016, 17, 548-555.	1.9	11
21	Marine Low Clouds and their Parameterization in Climate Models. Journal of the Meteorological Society of Japan, 2020, 98, 1097-1127.	1.8	9
22	Evaluation of Relationships between Subtropical Marine Low Stratiform Cloudiness and Estimated Inversion Strength in CMIP5 Models Using the Satellite Simulator Package COSP. Scientific Online Letters on the Atmosphere, 2018, 14, 25-32.	1.4	6
23	Examples of Mechanisms for Negative Cloud Feedback of Stratocumulus and Stratus in Cloud Parameterizations. Scientific Online Letters on the Atmosphere, 2012, 8, 150-154.	1.4	6
24	Changes in Marine Fog Over the North Pacific Under Different Climates in CMIP5 Multimodel Simulations. Journal of Geophysical Research D: Atmospheres, 2018, 123, 10,911.	3.3	5
25	Relationship between shortwave radiation bias over the Southern Ocean and the <scp>doubleâ€</scp>intertropical convergence zone problem in <scp>MRIâ€ESM2</scp>. Atmospheric Science Letters, 2021, 22, e1064.	1.9	4
26	Estimated cloud-top entrainment index explains positive low-cloud-cover feedback. Proceedings of the National Academy of Sciences of the United States of America, 2022, 119, .	7.1	2