Tsuyoshi Koshiro

List of Publications by Year
in descending order

29 papers	2,605 citations	430874 18 h-index	477307 29 g-index
38 all docs	38 docs citations	38 times ranked	3842 citing authors

#	Article	IF	Citations
1	A New Global Climate Model of the Meteorological Research Institute: MRI-CGCM3 â€"Model Description and Basic Performanceâ€". Journal of the Meteorological Society of Japan, 2012, 90A, 23-64.	1.8	649
2	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
3	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
4	Climate model projections from the Scenario Model Intercomparison ProjectÂ(ScenarioMIP) of CMIP6. Earth System Dynamics, 2021, 12, 253-293.	7.1	236
5	Origins of the Solar Radiation Biases over the Southern Ocean in CFMIP2 Models*. Journal of Climate, 2014, 27, 41-56.	3.2	227
6	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
7	Evaluation of the Warm Rain Formation Process in Global Models with Satellite Observations. Journals of the Atmospheric Sciences, 2015, 72, 3996-4014.	1.7	79
8	Basic performance of a new earth system model of the Meteorological Research Institute (MRI-ESM1). Papers in Meteorology and Geophysics, 2013, 64, 1-19.	0.9	66
9	The impact of parametrized convection on cloud feedback. Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences, 2015, 373, 20140414.	3.4	63
10	Significant improvement of cloud representation in the global climate model MRI-ESM2. Geoscientific Model Development, 2019, 12, 2875-2897.	3.6	60
11	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
12	The Climate Response to Emissions Reductions Due to COVIDâ€19: Initial Results From CovidMIP. Geophysical Research Letters, 2021, 48, e2020GL091883.	4.0	43
13	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
14	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
15	A Multimodel Study on Warm Precipitation Biases in Global Models Compared to Satellite Observations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 11,806.	3.3	34
16	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
17	Relationship between Low Stratiform Cloud Amount and Estimated Inversion Strength in the Lower Troposphere over the Global Ocean in Terms of Cloud Types. Journal of the Meteorological Society of Japan, 2014, 92, 107-120.	1.8	26
18	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

#	Article	IF	Citations
19	The diurnal cycle of marine cloud feedback in climate models. Climate Dynamics, 2015, 44, 1419-1436.	3.8	18
20	Ground-based measurement of stratoâ€“mesospheric CO by a FTIR spectrometer over Poker Flat, Alaska. Advances in Space Research, 2005, 35, 2024-2030.	2.6	17
21	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
22	Changes in marine fog in a warmer climate. Atmospheric Science Letters, 2016, 17, 548-555.	1.9	11
23	Interannual Variability in Low Stratiform Cloud Amount over the Summertime North Pacific in Terms of Cloud Types. Journal of Climate, 2017, 30, 6107-6121.	3.2	10
24	Stratomesospheric CO measured by a groundâ€based Fourier Transform Spectrometer over Poker Flat, Alaska: Comparisons with Odin/SMR and a 2â€D model. Journal of Geophysical Research, 2007, 112, .	3.3	6
25	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
26	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
27	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
28	Gfdnavi, Web-Based Data and Knowledge Server Software for Geophysical Fluid Sciences, Part I: Rationales, Stand-Alone Features, and Supporting Knowledge Documentation Linked to Data. Lecture Notes in Computer Science, 2010, , 93-104.	1.3	4
29	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