Tatsuya Seiki

List of Publications by Year
in descending order

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55 papers	2,756 citations	257450 24 h-index	182427 51 g-index
60 all docs	60 docs citations	60 times ranked	2318 citing authors

#	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.	3.3	332
2	An Observed Connection between the North Atlantic Oscillation and the Maddenâ€“Julian Oscillation. Journal of Climate, 2009, 22, 364-380.	3.2	290
3	The Non-hydrostatic Icosahedral Atmospheric Model: description and development. Progress in Earth and Planetary Science, 2014, 1, .	3.0	274
4	Review of Tropicalâ€Extratropical Teleconnections on Intraseasonal Time Scales. Reviews of Geophysics, 2017, 55, 902-937.	23.0	227
5	Forecast Skill of the Maddenâ€“Julian Oscillation in Two Canadian Atmospheric Models. Monthly Weather Review, 2008, 136, 4130-4149.	1.4	164
6	The Subseasonal Experiment (SubX): A Multimodel Subseasonal Prediction Experiment. Bulletin of the American Meteorological Society, 2019, 100, 2043-2060.	3.3	153
7	Fifty Years of Research on the Maddenâ€Julian Oscillation: Recent Progress, Challenges, and Perspectives. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD030911.	3.3	106
8	The Influence of the Maddenâ€“Julian Oscillation on Canadian Wintertime Surface Air Temperature. Monthly Weather Review, 2009, 137, 2250-2262.	1.4	95
9	Impact of the Maddenâ€“Julian Oscillation on Wintertime Precipitation in Canada. Monthly Weather Review, 2010, 138, 3822-3839.	1.4	91
10	Aerosol Effects of the Condensation Process on a Convective Cloud Simulation. Journals of the Atmospheric Sciences, 2014, 71, 833-853.	1.7	88
11	Another look at influences of the Madden-Julian Oscillation on the wintertime East Asian weather. Journal of Geophysical Research, 2011, 116, .	3.3	76
12	Impact of the Maddenâ€Julian Oscillation on the intraseasonal forecast skill of the North Atlantic Oscillation. Geophysical Research Letters, 2010, 37, .	4.0	57
13	Intraseasonal Variability in a Dry Atmospheric Model. Journals of the Atmospheric Sciences, 2007, 64, 2422-2441.	1.7	55
14	The Nonlinear Transient Atmospheric Response to Tropical Forcing. Journal of Climate, 2007, 20, 5642-5665.	3.2	40
15	Contribution of Tibetan Plateau Snow Cover to the Extreme Winter Conditions of 2009/10. Atmosphere - Ocean, 2012, 50, 86-94.	1.6	39
16	Extratropical Response to the MJO: Nonlinearity and Sensitivity to the Initial State. Journals of the Atmospheric Sciences, 2018, 75, 219-234.	1.7	38
17	Improvement in Global Cloud-System-Resolving Simulations by Using a Double-Moment Bulk Cloud Microphysics Scheme. Journal of Climate, 2015, 28, 2405-2419.	3.2	37
18	Tropicalâ€“Extratropical Interactions of Intraseasonal Oscillations. Journals of the Atmospheric Sciences, 2013, 70, 3180-3197.	1.7	35

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19	A connection between the tropical Pacific Ocean and the winter climate in the Asianâ€Pacific region. Journal of Geophysical Research D: Atmospheres, 2015, 120, 430-448.	3.3	30
20	Impact of the North Atlantic Oscillation on the forecast skill of the Madden-Julian Oscillation. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	29
21	Toward reduction of the uncertainties in climate sensitivity due to cloud processes using a global non-hydrostatic atmospheric model. Progress in Earth and Planetary Science, 2018, 5, .	3.0	28
22	The Nonhydrostatic ICosahedral Atmospheric Model for CMIP6 HighResMIP simulations (NICAM16-S): experimental design, model description, and impacts of model updates. Geoscientific Model Development, 2021, 14, 795-820.	3.6	28
23	Vertical grid spacing necessary for simulating tropical cirrus clouds with a highâ€resolution atmospheric general circulation model. Geophysical Research Letters, 2015, 42, 4150-4157.	4.0	27
24	The interdecadal change of the leading mode of the winter precipitation over China. Climate Dynamics, 2016, 47, 2397-2411.	3.8	27
25	Subseasonal variability of North American wintertime surface air temperature. Climate Dynamics, 2015, 45, 1137-1155.	3.8	26
26	Modulation of the MJOâ€Related Teleconnections by the QBO. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12022-12033.	3.3	25
27	Submonthly Forecasting of Winter Surface Air Temperature in North America Based on Organized Tropical Convection. Atmosphere - Ocean, 2011, 49, 51-60.	1.6	22
28	Interannual variability of the Maddenâ€Julian Oscillation and its impact on the North Atlantic Oscillation in the boreal winter. Geophysical Research Letters, 2015, 42, 5571-5576.	4.0	22
29	Eastern Canada Flooding 2017 and its Subseasonal Predictions. Atmosphere - Ocean, 2019, 57, 195-207.	1.6	22
30	Simultaneous evaluation of ice cloud microphysics and nonsphericity of the cloud optical properties using hydrometeor video sonde and radiometer sonde in situ observations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 6681-6701.	3.3	21
31	High Cloud Responses to Global Warming Simulated by Two Different Cloud Microphysics Schemes Implemented in the Nonhydrostatic Icosahedral Atmospheric Model (NICAM). Journal of Climate, 2016, 29, 5949-5964.	3.2	21
32	Responses of Tropical and Subtropical High-Cloud Statistics to Global Warming. Journal of Climate, 2014, 27, 7753-7768.	3.2	19
33	A New Perspective for Future Precipitation Change from Intense Extratropical Cyclones. Geophysical Research Letters, 2019, 46, 12435-12444.	4.0	19
34	Indian summer monsoon influence on the climate in the North Atlanticâ€“European region. Climate Dynamics, 2012, 39, 303-311.	3.8	17
35	Subseasonal Forecast Skill over the Northern Polar Region in Boreal Winter. Journal of Climate, 2020, 33, 1935-1951.	3.2	15
36	Interdecadal change in the Northern Hemisphere seasonal climate prediction skill: part I. The leading forced mode of atmospheric circulation. Climate Dynamics, 2014, 43, 1595-1609.	3.8	14

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37	Impact of Precipitating Ice Hydrometeors on Longwave Radiative Effect Estimated by a Global Cloudâ€System Resolving Model. Journal of Advances in Modeling Earth Systems, 2018, 10, 284-296.	3.8	14
38	Evaluations of the Thermodynamic Phases of Clouds in a Cloud-System-Resolving Model Using CALIPSO and a Satellite Simulator over the Southern Ocean. Journals of the Atmospheric Sciences, 2020, 77, 3781-3801.	1.7	14
39	Cold and Warm Rain Simulated Using a Global Nonhydrostatic Model without Cumulus Parameterization, and their Responses to Global Warming. Journal of the Meteorological Society of Japan, 2015, 93, 181-197.	1.8	12
40	High cloud size dependency in the applicability of the fixed anvil temperature hypothesis using global nonhydrostatic simulations. Geophysical Research Letters, 2016, 43, 2307-2314.	4.0	12
41	Interdecadal change in the Northern Hemisphere seasonal climate prediction skill: part II. predictability and prediction skill. Climate Dynamics, 2014, 43, 1611-1630.	3.8	11
42	Improvements in Supercooled Liquid Water Simulations of Low-Level Mixed-Phase Clouds over the Southern Ocean Using a Single-Column Model. Journals of the Atmospheric Sciences, 2020, 77, 3803-3819.	1.7	10
43	Importance of Pressure Changes in High Cloud Area Feedback Due to Global Warming. Geophysical Research Letters, 2021, 48, e2021GL093646.	4.0	8
44	Improved Representation of Lowâ€Level Mixedâ€Phase Clouds in a Global Cloudâ€Systemâ€Resolving Simulation. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035223.	3.3	8
45	Near-Global Three-Dimensional Hail Signals Detected by Using GPM-DPR Observations. Journal of the Meteorological Society of Japan, 2021, 99, 379-402.	1.8	7
46	Cloud Microphysics in Global Cloud Resolving Models. Atmosphere - Ocean, 2022, 60, 477-505.	1.6	7
47	The Madden-Julian Oscillation. Atmosphere - Ocean, 2022, 60, 338-359.	1.6	7
48	Scalable rank-mapping algorithm for an icosahedral grid system on the massive parallel computer with a 3-D torus network. Parallel Computing, 2014, 40, 362-373.	2.1	6
49	Tropical-Extratropical Interactions and Teleconnections. , 2019, , 143-164.		6
50	The spring relationship between the Pacific-North American pattern and the North Atlantic Oscillation. Climate Dynamics, 2017, 48, 619-629.	3.8	5
51	Characteristics of Ice Clouds Over Mountain Regions Detected by CALIPSO and CloudSat Satellite Observations. Journal of Geophysical Research D: Atmospheres, 2019, 124, 10858-10877.	3.3	5
52	Evaluation of Rain Microphysics Using a Radar Simulator and Numerical Models: Comparison of Twoâ€Moment Bulk and Spectral Bin Cloud Microphysics Schemes. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS001891.	3.8	5
53	Numerical Experiments to Analyze Cloud Microphysical Processes Depicted in Vertical Profiles of Radar Reflectivity of Warm Clouds. Journals of the Atmospheric Sciences, 2015, 72, 4509-4528.	1.7	3
54	An Energy Balance Model for Low--Level Clouds Based on a Simulation Resolving Mesoscale Motions. Journal of the Meteorological Society of Japan, 2020, 98, 987-1004.	1.8	1

#	Article	IF	Citations
55	Current Challenges in Climate and Weather Research and Future Directions. Atmosphere - Ocean, 0, , 1-12.	1.6	1