Takanobu Yamaguchi

List of Publications by Year
in descending order

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35 papers	947 citations	516215 16 h-index	454577 30 g-index
45 all docs	45 docs citations	45 times ranked	1029 citing authors

#	Article	IF	Citations
1	The Sensitivity of Springtime Arctic Mixed-Phase Stratocumulus Clouds to Surface-Layer and Cloud-Top Inversion-Layer Moisture Sources. Journals of the Atmospheric Sciences, 2014, 71, 574-595.	0.6	72
2	Large-Eddy Simulation of Evaporatively Driven Entrainment in Cloud-Topped Mixed Layers. Journals of the Atmospheric Sciences, 2008, 65, 1481-1504.	0.6	71
3	Stratocumulus to Cumulus Transition by Drizzle. Journal of Advances in Modeling Earth Systems, 2017, 9, 2333-2349.	1.3	69
4	New approaches to quantifying aerosol influence on the cloud radiative effect. Proceedings of the National Academy of Sciences of the United States of America, 2016, 113, 5812-5819.	3.3	58
5	Aerosol-cloud-climate cooling overestimated by ship-track data. Science, 2021, 371, 485-489.	6.0	55
6	Cooling of Entrained Parcels in a Large-Eddy Simulation. Journals of the Atmospheric Sciences, 2012, 69, 1118-1136.	0.6	53
7	Technical note: Largeâ€eddy simulation of cloudy boundary layer with the Advanced Research WRF model. Journal of Advances in Modeling Earth Systems, 2012, 4, .	1.3	52
8	On the reversibility of transitions between closed and open cellular convection. Atmospheric Chemistry and Physics, 2015, 15, 7351-7367.	1.9	51
9	Cloud Modeling Tests of the ULTIMATEâ€“MACHO Scalar Advection Scheme. Monthly Weather Review, 2011, 139, 3248-3264.	0.5	50
10	Stratocumulus to cumulus transition in the presence of elevated smoke layers. Geophysical Research Letters, 2015, 42, 10,478.	1.5	45
11	On the relationship between open cellular convective cloud patterns and the spatial distribution of precipitation. Atmospheric Chemistry and Physics, 2015, 15, 1237-1251.	1.9	38
12	Inhomogeneous Mixing in Lagrangian Cloud Models: Effects on the Production of Precipitation Embryos. Journals of the Atmospheric Sciences, 2019, 76, 113-133.	0.6	33
13	On the interaction between marine boundary layer cellular cloudiness and surface heat fluxes. Atmospheric Chemistry and Physics, 2014, 14, 61-79.	1.9	24
14	An emulator approach to stratocumulus susceptibility. Atmospheric Chemistry and Physics, 2019, 19, 10191-10203.	1.9	23
15	Anthropogenic Air Pollution Delays Marine Stratocumulus Breakup to Open Cells. Geophysical Research Letters, 2019, 46, 14135-14144.	1.5	20
16	From Sugar to Flowers: A Transition of Shallow Cumulus Organization During ATOMIC. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002619.	1.3	19
17	Mesoscale organization, entrainment, and the properties of a closedâ€cell stratocumulus cloud. Journal of Advances in Modeling Earth Systems, 2017, 9, 2214-2229.	1.3	18
18	Wind speed response of marine non-precipitating stratocumulus clouds over a diurnal cycle in cloud-system resolving simulations. Atmospheric Chemistry and Physics, 2016, 16, 5811-5839.	1.9	15

#	Article	IF	Citations
19	Liquid Water Path Steady States in Stratocumulus: Insights from Process-Level Emulation and Mixed-Layer Theory. Journals of the Atmospheric Sciences, 2020, 77, 2203-2215.	0.6	15
20	Framework for improvement by vertical enhancement: A simple approach to improve representation of low and highâ€level clouds in largeâ€scale models. Journal of Advances in Modeling Earth Systems, 2017, 9, 627-646.	1.3	14
21	Cloud droplet growth in shallow cumulus clouds considering 1-D and 3-D thermal radiative effects. Atmospheric Chemistry and Physics, 2019, 19, 6295-6313.	1.9	14
22	Aerosolâ€Cloud Interactions in Trade Wind Cumulus Clouds and the Role of Vertical Wind Shear. Journal of Geophysical Research D: Atmospheres, 2019, 124, 12244-12261.	1.2	14
23	Evaluation of Modeled Stratocumulus-Capped Boundary Layer Turbulence with Shipborne Data. Journals of the Atmospheric Sciences, 2013, 70, 3895-3919.	0.6	13
24	Effect of gradients in biomass burning aerosol on shallow cumulus convective circulations. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9948-9964.	1.2	13
25	Gaussian Process Modeling of Heterogeneity and Discontinuities Using Voronoi Tessellations. Technometrics, 2021, 63, 53-63.	1.3	13
26	On the size distribution of cloud holes in stratocumulus and their relationship to cloudâ€top entrainment. Geophysical Research Letters, 2013, 40, 2450-2454.	1.5	12
27	Analysis of albedo versus cloud fraction relationships in liquid water clouds using heuristic models and large eddy simulation. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7086-7102.	1.2	12
28	Quantification of the Radiative Effect of Aerosolâ€“Cloud Interactions in Shallow Continental Cumulus Clouds. Journals of the Atmospheric Sciences, 2020, 77, 2905-2920.	0.6	12
29	Quantifying albedo susceptibility biases in shallow clouds. Atmospheric Chemistry and Physics, 2022, 22, 3303-3319.	1.9	11
30	The Energy Exascale Earth System Model Simulations With High Vertical Resolution in the Lower Troposphere. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002239.	1.3	10
31	The Implementation of Framework for Improvement by Vertical Enhancement Into Energy Exascale Earth System Model. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002240.	1.3	8
32	Realism of Lagrangian Large Eddy Simulations Driven by Reanalysis Meteorology: Tracking a Pocket of Open Cells Under a Biomass Burning Aerosol Layer. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002664.	1.3	6
33	A Higher-Order Closure Model with an Explicit PBL Top. Journals of the Atmospheric Sciences, 2010, 67, 834-850.	0.6	5
34	Model evaluation and intercomparison of marine warm low cloud fractions with neural network ensembles. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002625.	1.3	1
35	Twoâ€Dimensional Idealized Hadley Circulation Simulation for Global High Resolution Model Development. Journal of Advances in Modeling Earth Systems, 2022, 14, e2021MS002714.	1.3	0