Koichi Sakaguchi

List of Publications by Year
in descending order

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34	2,448	361413	395702
papers	citations	20 h-index	33 g-index

37	37	37	4479
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. Journal of Advances in Modeling Earth Systems, 2011, 3, .	3.8	666
2	Parameterization improvements and functional and structural advances in Version 4 of the Community Land Model. Journal of Advances in Modeling Earth Systems, 2011, 3, n/a-n/a.	3.8	367
3	Evaluation of the Reanalysis Products from GSFC, NCEP, and ECMWF Using Flux Tower Observations. Journal of Climate, 2012, 25, 1916-1944.	3.2	284
4	Effects of soil wetness, plant litter, and underâ€canopy atmospheric stability on ground evaporation in the Community Land Model (CLM3.5). Journal of Geophysical Research, 2009, 114, .	3.3	158
5	Climate change impacts on wind power generation. Nature Reviews Earth & Environment, 2020, 1, 627-643.	29.7	120
6	Mechanisms of water supply and vegetation demand govern the seasonality and magnitude of evapotranspiration in Amazonia and Cerrado. Agricultural and Forest Meteorology, 2014, 191, 33-50.	4.8	105
7	The Ongoing Need for High-Resolution Regional Climate Models: Process Understanding and Stakeholder Information. Bulletin of the American Meteorological Society, 2020, 101, E664-E683.	3.3	90
8	Terrestrial Carbon Cycle: Climate Relations in Eight CMIP5 Earth System Models. Journal of Climate, 2013, 26, 8744-8764.	3.2	88
9	Overview of the Large-Scale Biosphereâ€“Atmosphere Experiment in Amazonia Data Model Intercomparison Project (LBA-DMIP). Agricultural and Forest Meteorology, 2013, 182-183, 111-127.	4.8	55
10	Physicsâ€“Dynamics Coupling in Weather, Climate, and Earth System Models: Challenges and Recent Progress. Monthly Weather Review, 2018, 146, 3505-3544.	1.4	52
11	Exploring a Multiresolution Approach Using AMIP Simulations. Journal of Climate, 2015, 28, 5549-5574.	3.2	51
12	Toward the Dynamical Convergence on the Jet Stream in Aquaplanet AGCMs. Journal of Climate, 2015, 28, 6763-6782.	3.2	42
13	Evaluation of Mesoscale Convective Systems in Climate Simulations: Methodological Development and Results from MPAS-CAM over the United States. Journal of Climate, 2021, 34, 2611-2633.	3.2	40
14	Thermodynamic and Dynamic Mechanisms for Hydrological Cycle Intensification over the Full Probability Distribution of Precipitation Events. Journals of the Atmospheric Sciences, 2019, 76, 497-516.	1.7	38
15	Sources and pathways of the upscale effects on the Southern Hemisphere jet in MPASâ€CAM4 variableâ€resolution simulations. Journal of Advances in Modeling Earth Systems, 2016, 8, 1786-1805.	3.8	30
16	Exploring the impacts of physics and resolution on aquaâ€planet simulations from a nonhydrostatic global variableâ€resolution modeling framework. Journal of Advances in Modeling Earth Systems, 2016, 8, 1751-1768.	3.8	28
17	Natural and drought scenarios in an east central Amazon forest: Fidelity of the Community Land Model 3.5 with three biogeochemical models. Journal of Geophysical Research, 2011, 116, .	3.3	23
18	The Impact of Variable Landâ€Atmosphere Coupling on Convective Cloud Populations Observed During the 2016 HIâ€SCALE Field Campaign. Journal of Advances in Modeling Earth Systems, 2019, 11, 2629-2654.	3.8	22

#	Article	IF	Citations
19	Converted wave imaging of the Toba Caldera, Indonesia. Geophysical Research Letters, 2006, 33, .	4.0	21
20	Exploring the effects of a nonhydrostatic dynamical core in highâ€resolution aquaplanet simulations. Journal of Geophysical Research D: Atmospheres, 2017, 122, 3245-3265.	3.3	21
21	The hindcast skill of the CMIP ensembles for the surface air temperature trend. Journal of Geophysical Research, 2012, 117, .	3.3	19
22	Quantifying the impact of sub-grid surface wind variability on sea salt and dust emissions in CAM5. Geoscientific Model Development, 2016, 9, 607-632.	3.6	19
23	Role of Troposphereâ€Convectionâ€Land Coupling in the Southwestern Amazon Precipitation Bias of the Community Earth System Model Version 1 (CESM1). Journal of Geophysical Research D: Atmospheres, 2018, 123, 8374-8399.	3.3	19
24	Crucial Roles of Eastward Propagating Environments in the Summer MCS Initiation Over the U.S. Great Plains. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD034991.	3.3	16
25	Multiscale Simulation of Precipitation Over East Asia by Variable Resolution CAMâ€MPAS. Journal of Advances in Modeling Earth Systems, 2021, 13, e2021MS002656.	3.8	12
26	Temporal- and Spatial-Scale Dependence of Three CMIP3 Climate Models in Simulating the Surface Temperature Trend in the Twentieth Century. Journal of Climate, 2012, 25, 2456-2470.	3.2	11
27	How Do Microphysical Processes Influence Largeâ€Scale Precipitation Variability and Extremes?. Geophysical Research Letters, 2018, 45, 1661-1667.	4.0	10
28	A toy model for monthly river flow forecasting. Journal of Hydrology, 2012, 452-453, 226-231.	5.4	9
29	Influence of dynamic vegetation on carbon-nitrogen cycle feedback in the Community Land Model (CLM4). Environmental Research Letters, 2016, 11, 124029.	5.2	9
30	Impact of Lateral Flow on Surface Water and Energy Budgets Over the Southern Great Plainsâ€"A Modeling Study. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD033659.	3.3	8
31	Examining the Hydrological Variations in an Aquaplanet World Using Wave Activity Transformation. Journal of Climate, 2017, 30, 2559-2576.	3.2	7
32	A Machineâ€Learningâ€Assisted Stochastic Cloud Population Model as a Parameterization of Cumulus Convection. Journal of Advances in Modeling Earth Systems, 2022, 14, .	3.8	3
33	Determining Spatial Scales of Soil Moistureâ€"Cloud Coupling Pathways Using Semiâ€Idealized Simulations. Journal of Geophysical Research D: Atmospheres, 2022, 127, e2021JD035282.	3.3	2
34	Effect of the Grellâ€Freitas Deep Convection Scheme in Quasiâ€uniform and Variableâ€resolution Aquaplanet CAM Simulations. Journal of Advances in Modeling Earth Systems, 0, , .	3.8	1