Takashi Mochizuki

List of Publications by Year
in descending order

45 papers	2,461 citations	331670 21 h-index	243625 44 g-index
48 all docs	48 docs citations	48 times ranked	2883 citing authors

#	Article	IF	Citations
1	Cascading effects of the Changbai Mountains on an extreme weather disaster in northern Japan in January 2021. Weather and Climate Extremes, 2022, 36, 100439.	4.1	2
2	North Atlantic climate far more predictable than models imply. Nature, 2020, 583, 796-800.	27.8	158
3	El NiÃ±oâ€“Southern Oscillation Evolution Modulated by Atlantic Forcing. Journal of Geophysical Research: Oceans, 2020, 125, e2020JC016318.	2.6	27
4	Seasonal to Decadal Predictions With MIROC6: Description and Basic Evaluation. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002035.	3.8	19
5	Pacific decadal oscillation remotely forced by the equatorial Pacific and the Atlantic Oceans. Climate Dynamics, 2020, 55, 789-811.	3.8	35
6	Description and basic evaluation of simulated mean state, internal variability, and climate sensitivity in MIROC6. Geoscientific Model Development, 2019, 12, 2727-2765.	3.6	439
7	On the Mechanisms of the Active 2018 Tropical Cyclone Season in the North Pacific. Geophysical Research Letters, 2019, 46, 12293-12302.	4.0	15
8	Robust skill of decadal climate predictions. Npj Climate and Atmospheric Science, 2019, 2, .	6.8	136
9	Predicted Chance That Global Warming Will Temporarily Exceed 1.5ÂÂ°C. Geophysical Research Letters, 2018, 45, 11,895.	4.0	31
10	Ocean Impacts on Australian Interannual to Decadal Precipitation Variability. Climate, 2018, 6, 61.	2.8	25
11	Tropical Atlantic-Korea teleconnection pattern during boreal summer season. Climate Dynamics, 2017, 49, 2649-2664.	3.8	23
12	Impact of in-consistency between the climate model and its initial conditions on climate prediction. Climate Dynamics, 2017, 49, 1061-1075.	3.8	6
13	Japanese studies of ocean data assimilation: milestones over the past 20 years and future perspectives. Oceanography in Japan, 2017, 26, 15-43.	0.5	1
14	Multiyear climate prediction with initialization based on 4Dâ€Var data assimilation. Geophysical Research Letters, 2016, 43, 3903-3910.	4.0	22
15	Interbasin effects of the Indian Ocean on Pacific decadal climate change. Geophysical Research Letters, 2016, 43, 7168-7175.	4.0	32
16	Potential tropical Atlantic impacts on Pacific decadal climate trends. Geophysical Research Letters, 2016, 43, 7143-7151.	4.0	65
17	A new Approach to El NiÃ±o Prediction beyond the Spring Season. Scientific Reports, 2015, 5, 16782.	3.3	12
18	Skilful multi-year predictions of tropical trans-basin climate variability. Nature Communications, 2015, 6, 6869.	12.8	132

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19	Error Sensitivity to Initial Climate States in Pacific Decadal Hindcasts. Scientific Online Letters on the Atmosphere, 2014, 10, 39-44.	1.4	4
20	An overview of decadal climate predictability in a multi-model ensemble by climate model MIROC. Climate Dynamics, 2013, 40, 1201-1222.	3.8	67
21	Strengthening of ocean heat uptake efficiency associated with the recent climate hiatus. Geophysical Research Letters, 2013, 40, 3175-3179.	4.0	108
22	Initialized near-term regional climate change prediction. Nature Communications, 2013, 4, 1715.	12.8	250
23	Hindcast Prediction and Near-Future Projection of Tropical Cyclone Activity over the Western North Pacific Using CMIP5 Near-Term Experiments with MIROC. Journal of the Meteorological Society of Japan, 2013, 91, 431-452.	1.8	15
24	Relationship between the Pacific and Atlantic stepwise climate change during the 1990s. Geophysical Research Letters, 2012, 39, .	4.0	30
25	MIROC4hâ€”A New High-Resolution Atmosphere-Ocean Coupled General Circulation Model. Journal of the Meteorological Society of Japan, 2012, 90, 325-359.	1.8	146
26	Decadal Prediction Using a Recent Series of MIROC Global Climate Models. Journal of the Meteorological Society of Japan, 2012, 90A, 373-383.	1.8	60
27	Predictability of a Stepwise Shift in Pacific Climate during the Late 1990s in Hindcast Experiments Using MIROC. Journal of the Meteorological Society of Japan, 2012, 90A, 1-21.	1.8	26
28	The Initialization of the MIROC Climate Models with Hydrographic Data Assimilation for Decadal Prediction. Journal of the Meteorological Society of Japan, 2012, 90A, 275-294.	1.8	63
29	Interannual variability of North Pacific eastern subtropical mode water formation in the 1990s derived from a 4-dimensional variational ocean data assimilation experiment. Dynamics of Atmospheres and Oceans, 2011, 51, 1-25.	1.8	16
30	Influence of XBT Temperature Bias on Decadal Climate Prediction with a Coupled Climate Model. Journal of Climate, 2011, 24, 5303-5308.	3.2	7
31	Impact of the Assimilation of Sea Ice Concentration Data on an Atmosphere-Ocean-Sea Ice Coupled Simulation of the Arctic Ocean Climate. Scientific Online Letters on the Atmosphere, 2011, 7, 37-40.	1.4	8
32	Pacific decadal oscillation hindcasts relevant to near-term climate prediction. Proceedings of the National Academy of Sciences of the United States of America, 2010, 107, 1833-1837.	7.1	189
33	Possible Influence of Volcanic Activity on the Decadal Potential Predictability of the Natural Variability in Near-Term Climate Predictions. Advances in Meteorology, 2010, 2010, 1-7.	1.6	9
34	A possible role for unstable coupled waves affected by resonance between Kelvin waves and seasonal warming in the development of the strong 1997â€“1998 El NiÃ±o. Deep-Sea Research Part I: Oceanographic Research Papers, 2009, 56, 495-512.	1.4	10
35	Seasonal climate modeling over the Indian Ocean by employing a 4Dâ€VAR coupled data assimilation approach. Journal of Geophysical Research, 2009, 114, .	3.3	7
36	Possible oceanic feedback in the extratropics in relation to the North Atlantic SST tripole. Geophysical Research Letters, 2009, 36, .	4.0	3

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37	Development of a fourâ€dimensional variational coupled data assimilation system for enhanced analysis and prediction of seasonal to interannual climate variations. Journal of Geophysical Research, 2008, 113, .	3.3	101
38	Summertime Evolution of Decadal Sea Surface Temperature Anomalies in the Midlatitude North Pacific. Journal of Climate, 2008, 21, 1569-1588.	3.2	6
39	A Regional Oceanâ€“Atmosphere Model for Eastern Pacific Climate: Toward Reducing Tropical Biases*. Journal of Climate, 2007, 20, 1504-1522.	3.2	104
40	Improved coupled GCM climatologies for summer monsoon onset studies over Southeast Asia. Geophysical Research Letters, 2007, 34, .	4.0	14
41	A simple diagnostic calculation of marine stratocumulus cloud cover for use in general circulation models. Journal of Geophysical Research, 2007, 112, .	3.3	12
42	Seasonality of Decadal Sea Surface Temperature Anomalies in the Northwestern Pacific. Journal of Climate, 2006, 19, 2953-2968.	3.2	9
43	Maintenance of Decadal SST Anomalies in the Midlatitude North Pacific. Journal of the Meteorological Society of Japan, 2003, 81, 477-491.	1.8	6
44	Observed and hindcasted subdecadal variability of the tropical Pacific climate. ICES Journal of Marine Science, 0, , .	2.5	4
45	Initialized near-term regional climate change prediction. , 0, .		1