Hiroaki Tatebe

List of Publications by Year
in descending order

59 papers	3,708 citations	279798 23 h-index	155660 55 g-index
72 all docs	72 docs citations	72 times ranked	4714 citing authors

#	Article	IF	Citations
1	Improved Climate Simulation by MIROC5: Mean States, Variability, and Climate Sensitivity. Journal of Climate, 2010, 23, 6312-6335.	3.2	1,103
2	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
3	Development of the MIROC-ES2L Earth system model and the evaluation of biogeochemical processes and feedbacks. Geoscientific Model Development, 2020, 13, 2197-2244.	3.6	245
4	Climate model projections from the Scenario Model Intercomparison ProjectÂ(ScenarioMIP) of CMIP6. Earth System Dynamics, 2021, 12, 253-293.	7.1	236
5	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
6	Contribution of natural decadal variability to global warming acceleration and hiatus. Nature Climate Change, 2014, 4, 893-897.	18.8	179
7	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
8	Evaluation of global oceanâ€"sea-ice model simulations based on the experimental protocols of the Ocean Model Intercomparison Project phase 2 (OMIP-2). Geoscientific Model Development, 2020, 13, 3643-3708.	3.6	99
9	Possible explanation linking 18.6-year period nodal tidal cycle with bi-decadal variations of ocean and climate in the North Pacific. Geophysical Research Letters, 2006, 33, .	4.0	69
10	An overview of decadal climate predictability in a multi-model ensemble by climate model MIROC. Climate Dynamics, 2013, 40, 1201-1222.	3.8	67
11	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
12	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
13	Reconciling roles of sulphate aerosol forcing and internal variability in Atlantic multidecadal climate changes. Climate Dynamics, 2019, 53, 4651-4665.	3.8	58
14	Enhanced warming constrained by past trends in equatorial Pacific sea surface temperature gradient. Nature Climate Change, 2021, 11, 33-37.	18.8	58
15	Oyashio Southward Intrusion and Cross-Gyre Transport Related to Diapycnal Upwelling in the Okhotsk Sea. Journal of Physical Oceanography, 2004, 34, 2327-2341.	1.7	48
16	Effects of the 18.6-yr Modulation of Tidal Mixing on the North Pacific Bidecadal Climate Variability in a Coupled Climate Model. Journal of Climate, 2012, 25, 7625-7642.	3.2	43
17	Pacific bidecadal climate variability regulated by tidal mixing around the Kuril Islands. Geophysical Research Letters, 2008, 35, .	4.0	35
18	Predictability of Two Types of El NiÃ±o Assessed Using an Extended Seasonal Prediction System by MIROC. Monthly Weather Review, 2015, 143, 4597-4617.	1.4	33

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19	Impact of deep ocean mixing on the climatic mean state in the Southern Ocean. Scientific Reports, 2018, 8, 14479.	3.3	32
20	The Arctic Predictability and Prediction on Seasonal-to-Interannual TimEscales (APPOSITE) data set versionÂ1. Geoscientific Model Development, 2016, 9, 2255-2270.	3.6	26
21	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
22	Transport of subarctic large copepods from the Oyashio area to the mixed water region by the coastal Oyashio intrusion. Fisheries Oceanography, 2009, 18, 312-327.	1.7	25
23	Progress of North Pacific modeling over the past decade. Deep-Sea Research Part II: Topical Studies in Oceanography, 2010, 57, 1188-1200.	1.4	25
24	Control of Decadal and Bidecadal Climate Variability in the Tropical Pacific by the Off-Equatorial South Pacific Ocean. Journal of Climate, 2013, 26, 6524-6534.	3.2	23
25	PMIP4 experiments using MIROC-ES2L Earth system model. Geoscientific Model Development, 2021, 14, 1195-1217.	3.6	22
26	Formation mechanism of the Pacific equatorial thermocline revealed by a general circulation model with a high accuracy tracer advection scheme. Ocean Modelling, 2010, 35, 245-252.	2.4	21
27	South Pacific influence on the termination of El NiÃ±o in 2014. Scientific Reports, 2016, 6, 30341.	3.3	21
28	WMO Global Annual to Decadal Climate Update: A Prediction for 2021â€"25. Bulletin of the American Meteorological Society, 2022, 103, E1117-E1129.	3.3	20
29	Seasonal axis migration of the upstream Kuroshio Extension associated with standing oscillations. Journal of Geophysical Research, 2001, 106, 16685-16692.	3.3	19
30	A Maddenâ€Julian Oscillation event remotely accelerates ocean upwelling to abruptly terminate the 1997/1998 super El NiÃ±o. Geophysical Research Letters, 2017, 44, 9489-9495.	4.0	19
31	Seasonal to Decadal Predictions With MIROC6: Description and Basic Evaluation. Journal of Advances in Modeling Earth Systems, 2020, 12, e2019MS002035.	3.8	19
32	Interdecadal variations of the coastal Oyashio from the 1970s to the early 1990s. Geophysical Research Letters, 2005, 32, .	4.0	16
33	Roles of Shallow Convective Moistening in the Eastward Propagation of the MJO in MIROC6. Journal of Climate, 2018, 31, 3033-3047.	3.2	16
34	Downscaling Global Emissions and Its Implications Derived from Climate Model Experiments. PLoS ONE, 2017, 12, e0169733.	2.5	15
35	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
36	Enhanced Arctic warming amplification revealed in a low-emission scenario. Communications Earth & Environment, 2022, 3, .	6.8	15

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37	Horizontal transport of the calanoid copepod Neocalanus in the North Pacific: The influences of the current system and the life history. Deep-Sea Research Part I: Oceanographic Research Papers, 2010, 57, 409-419.	1.4	14
38	Mechanisms influencing seasonal to inter-annual prediction skill of sea ice extent in the Arctic Ocean in MIROC. Cryosphere, 2018, 12, 675-683.	3.9	13
39	The Gulf Stream and Kuroshio Current are synchronized. Science, 2021, 374, 341-346.	12.6	12
40	Effectiveness and limitations of parameter tuning in reducing biases of top-of-atmosphere radiation and clouds in MIROC version 5. Geoscientific Model Development, 2017, 10, 4647-4664.	3.6	10
41	On the Emergence of the Atlantic Multidecadal SST Signal: A Key Role of the Mixed Layer Depth Variability Driven by North Atlantic Oscillation. Journal of Climate, 2020, 33, 3511-3531.	3.2	10
42	Windâ€"Mixed Layerâ€"SST Feedbacks in a Tropical Airâ€"Sea Coupled System: Application to the Atlantic. Journal of Climate, 2019, 32, 3865-3881.	3.2	9
43	The Importance of Ocean Dynamical Feedback for Understanding the Impact of Midâ€"High-Latitude Warming on Tropical Precipitation Change. Journal of Climate, 2018, 31, 2417-2434.	3.2	8
44	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
45	Numerical Experiments on the Seasonal Variations of the Oyashio near the East Coast of Japan. Journal of Physical Oceanography, 2005, 35, 2309-2326.	1.7	7
46	Impact of sea-ice thickness initialized in April on Arctic sea-ice extent predictability with the MIROC climate model. Annals of Glaciology, 2020, 61, 97-105.	1.4	6
47	Future dynamic sea level change in the western subtropical North Pacific associated with ocean heat uptake and heat redistribution by ocean circulation under global warming. Progress in Earth and Planetary Science, 2020, 7, .	3.0	5
48	Importance of El NiÃ±o reproducibility for reconstructing historical CO₂ flux variations in the equatorial Pacific. Ocean Science, 2020, 16, 1431-1442.	3.4	4
49	Mechanisms for and Predictability of a Drastic Reduction in the Arctic Sea Ice: APPOSITE Data with Climate Model MIROC. Journal of Climate, 2019, 32, 1361-1380.	3.2	3
50	Impact of airâ€"sea coupling on the probability of occurrence of heat waves in Japan. Progress in Earth and Planetary Science, 2020, 7, .	3.0	3
51	Atmospheric Responses and Feedback to the Meridional Ocean Heat Transport in the North Pacific. Journal of Climate, 2017, 30, 5715-5728.	3.2	2
52	Control of transient climate response and associated sea level rise by deep-ocean mixing. Environmental Research Letters, 2020, 15, 094001.	5.2	2
53	Millennium time-scale experiments on climate-carbon cycle with doubled CO2 concentration. Progress in Earth and Planetary Science, 2020, 7, .	3.0	2
54	Multi-Decadal Modulation of Tropical Pacific Instability Wave Activity since the Middle of the Twentieth Century. Scientific Online Letters on the Atmosphere, 2013, 9, 102-105.	1.4	2

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55	Transient Influence of the Reduction of Deepwater Formation on Ocean Heat Uptake and Heat Budgets in the Global Climate System. Geophysical Research Letters, 2022, 49, .	4.0	2
56	Possible relationship between Pacific interdecadal climate variability and the periodic 18.6-year tidal oscillation in the ocean. Oceanography in Japan, 2018, 27, 3-18.	0.5	0
57	Preface of the special Issue â€œToward the evaluation of oceanic tidal impacts on the ocean, climate, and fishery resourcesâ€• Oceanography in Japan, 2018, 27, 1-1.	0.5	0
58	ASSESSMENT OF THE NATURAL VARIABILITY COMPONENTS IN LOCAL SEA LEVEL AROUND THE EAST ASIA USING MIROC6 PROJECTIONS. Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering), 2021, 77, I_967-I_972.	0.4	0
59	UNCERTAINTY IN REGIONAL SEA LEVEL RISE DUE TO CLIMATE CHANGE AROUND JAPAN. Journal of Japan Society of Civil Engineers Ser B2 (Coastal Engineering), 2020, 76, I_1135-I_1140.	0.4	0