

Rong Zhang

List of Publications by Year in descending order

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72
papers

10,777
citations

44069

48
h-index

85541

71
g-index

76
all docs

76
docs citations

76
times ranked

9240
citing authors

#	ARTICLE	IF	CITATIONS
1	Horizontal circulation across density surfaces contributes substantially to the long-term mean northern Atlantic Meridional Overturning Circulation. <i>Communications Earth & Environment</i> , 2021, 2, .	6.8	21
2	Aerosol-Forced AMOC Changes in CMIP6 Historical Simulations. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088166.	4.0	85
3	Climate Sensitivity of GFDL's CM4.0. <i>Journal of Advances in Modeling Earth Systems</i> , 2020, 12, e2019MS001838.	3.8	17
4	The GFDL Global Ocean and Sea Ice Model OM4.0: Model Description and Simulation Features. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3167-3211.	3.8	195
5	Structure and Performance of GFDL's CM4.0 Climate Model. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 3691-3727.	3.8	242
6	A Review of the Role of the Atlantic Meridional Overturning Circulation in Atlantic Multidecadal Variability and Associated Climate Impacts. <i>Reviews of Geophysics</i> , 2019, 57, 316-375.	23.0	298
7	Local and Downstream Relationships between Labrador Sea Water Volume and North Atlantic Meridional Overturning Circulation Variability. <i>Journal of Climate</i> , 2019, 32, 3883-3898.	3.2	41
8	A Multivariate AMV Index and Associated Discrepancies Between Observed and CMIP5 Externally Forced AMV. <i>Geophysical Research Letters</i> , 2019, 46, 4421-4431.	4.0	36
9	Comparison of Mechanisms for Low-Frequency Variability of Summer Arctic Sea Ice in Three Coupled Models. <i>Journal of Climate</i> , 2018, 31, 1205-1226.	3.2	12
10	Underestimated AMOC Variability and Implications for AMV and Predictability in CMIP Models. <i>Geophysical Research Letters</i> , 2018, 45, 4319-4328.	4.0	78
11	The Central Role of Ocean Dynamics in Connecting the North Atlantic Oscillation to the Extratropical Component of the Atlantic Multidecadal Oscillation. <i>Journal of Climate</i> , 2017, 30, 3789-3805.	3.2	122
12	On the discrepancy between observed and CMIP5 multi-model simulated Barents Sea winter sea ice decline. <i>Nature Communications</i> , 2017, 8, 14991.	12.8	63
13	On the persistence and coherence of subpolar sea surface temperature and salinity anomalies associated with the Atlantic multidecadal variability. <i>Geophysical Research Letters</i> , 2017, 44, 7865-7875.	4.0	100
14	Observed and Simulated Fingerprints of Multidecadal Climate Variability and Their Contributions to Periods of Global SST Stagnation. <i>Journal of Climate</i> , 2017, 30, 721-737.	3.2	32
15	The role of Atlantic overturning circulation in the recent decline of Atlantic major hurricane frequency. <i>Nature Communications</i> , 2017, 8, 1695.	12.8	60
16	Fram Strait sea ice export variability and September Arctic sea ice extent over the last 80 years. <i>Cryosphere</i> , 2017, 11, 65-79.	3.9	141
17	Enhanced warming of the Northwest Atlantic Ocean under climate change. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 118-132.	2.6	348
18	Prospects for a prolonged slowdown in global warming in the early 21st century. <i>Nature Communications</i> , 2016, 7, 13676.	12.8	44

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19	The North Atlantic Oscillation as a driver of rapid climate change in the Northern Hemisphere. <i>Nature Geoscience</i> , 2016, 9, 509-512.	12.9	197
20	Comment on “The Atlantic Multidecadal Oscillation without a role for ocean circulation”. <i>Science</i> , 2016, 352, 1527-1527.	12.6	136
21	The necessity of cloud feedback for a basin-scale Atlantic Multidecadal Oscillation. <i>Geophysical Research Letters</i> , 2016, 43, 3955-3963.	4.0	74
22	Impact of the Atlantic meridional overturning circulation on the decadal variability of the Gulf Stream path and regional chlorophyll and nutrient concentrations. <i>Geophysical Research Letters</i> , 2015, 42, 9889-9887.	4.0	26
23	On the evolution of Atlantic Meridional Overturning Circulation Fingerprint and implications for decadal predictability in the North Atlantic. <i>Geophysical Research Letters</i> , 2015, 42, 5419-5426.	4.0	57
24	North Atlantic Multi-Decadal Variability “Mechanisms and Predictability. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2015, , 141-157.	0.2	13
25	Impacts on Ocean Heat from Transient Mesoscale Eddies in a Hierarchy of Climate Models. <i>Journal of Climate</i> , 2015, 28, 952-977.	3.2	292
26	Mechanisms for low-frequency variability of summer Arctic sea ice extent. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2015, 112, 4570-4575.	7.1	146
27	Reply to Comments on “Multiyear Predictions of North Atlantic Hurricane Frequency: Promise and Limitations”. <i>Journal of Climate</i> , 2014, 27, 490-492.	3.2	2
28	Predicting a Decadal Shift in North Atlantic Climate Variability Using the GFDL Forecast System. <i>Journal of Climate</i> , 2014, 27, 6472-6496.	3.2	84
29	Muted change in Atlantic overturning circulation over some glacial-aged Heinrich events. <i>Nature Geoscience</i> , 2014, 7, 144-150.	12.9	94
30	Western Pacific thermocline structure and the Pacific marine Intertropical Convergence Zone during the Last Glacial Maximum. <i>Earth and Planetary Science Letters</i> , 2013, 363, 133-143.	4.4	25
31	Impact of climate warming on upper layer of the Bering Sea. <i>Climate Dynamics</i> , 2013, 40, 327-340.	3.8	11
32	Have Aerosols Caused the Observed Atlantic Multidecadal Variability?. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 1135-1144.	1.7	282
33	Explaining Extreme Events of 2012 from a Climate Perspective. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, S1-S74.	3.3	229
34	A Predictable AMO-Like Pattern in the GFDL Fully Coupled Ensemble Initialization and Decadal Forecasting System. <i>Journal of Climate</i> , 2013, 26, 650-661.	3.2	97
35	Multiyear Predictions of North Atlantic Hurricane Frequency: Promise and Limitations. <i>Journal of Climate</i> , 2013, 26, 5337-5357.	3.2	57
36	Comment on “Multiyear Prediction of Monthly Mean Atlantic Meridional Overturning Circulation at 26.5°N”. <i>Science</i> , 2012, 338, 604-604.	12.6	8

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37	Simulated Climate and Climate Change in the GFDL CM2.5 High-Resolution Coupled Climate Model. <i>Journal of Climate</i> , 2012, 25, 2755-2781.	3.2	454
38	Predicting Atlantic meridional overturning circulation (AMOC) variations using subsurface and surface fingerprints. <i>Deep-Sea Research Part II: Topical Studies in Oceanography</i> , 2011, 58, 1895-1903.	1.4	23
39	Sensitivity of the North Atlantic Ocean Circulation to an abrupt change in the Nordic Sea overflow in a high resolution global coupled climate model. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	67
40	On the observed relationship between the Pacific Decadal Oscillation and the Atlantic Multi-decadal Oscillation. <i>Journal of Oceanography</i> , 2011, 67, 27-35.	1.7	73
41	Impact of the Atlantic Meridional Overturning Circulation (AMOC) on Arctic Surface Air Temperature and Sea Ice Variability. <i>Journal of Climate</i> , 2011, 24, 6573-6581.	3.2	138
42	On the Path of the Gulf Stream and the Atlantic Meridional Overturning Circulation. <i>Journal of Climate</i> , 2010, 23, 3146-3154.	3.2	82
43	Sensitivity of Climate Change Induced by the Weakening of the Atlantic Meridional Overturning Circulation to Cloud Feedback. <i>Journal of Climate</i> , 2010, 23, 378-389.	3.2	59
44	Latitudinal dependence of Atlantic meridional overturning circulation (AMOC) variations. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	130
45	Northward intensification of anthropogenically forced changes in the Atlantic meridional overturning circulation (AMOC). <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	4
46	Dynamic millennial-scale climate changes in the northwestern Pacific over the past 40,000 years. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	27
47	Ice Age Terminations. <i>Science</i> , 2009, 326, 248-252.	12.6	794
48	The climatological mean atmospheric transport under weakened Atlantic thermohaline circulation climate scenario. <i>Climate Dynamics</i> , 2009, 32, 343-354.	3.8	1
49	A new method for attributing climate variations over the Atlantic Hurricane Basin's main development region. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	14
50	On the interpretation of Caribbean paleo-temperature reconstructions during the Younger Dryas. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	26
51	Oceanic link between abrupt changes in the North Atlantic Ocean and the African monsoon. <i>Nature Geoscience</i> , 2008, 1, 444-448.	12.9	136
52	Coherent surface-subsurface fingerprint of the Atlantic meridional overturning circulation. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	258
53	The Role of Bottom Vortex Stretching on the Path of the North Atlantic Western Boundary Current and on the Northern Recirculation Gyre. <i>Journal of Physical Oceanography</i> , 2007, 37, 2053-2080.	1.7	108
54	Decadal to centennial variability of the Atlantic from observations and models. <i>Geophysical Monograph Series</i> , 2007, , 131-148.	0.1	58

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55	Can the Atlantic Ocean drive the observed multidecadal variability in Northern Hemisphere mean temperature?. Geophysical Research Letters, 2007, 34, .	4.0	167
56	Large fluctuations of dissolved oxygen in the Indian and Pacific oceans during Dansgaard-Oeschger oscillations caused by variations of North Atlantic Deep Water subduction. Paleoceanography, 2007, 22, .	3.0	104
57	Anticorrelated multidecadal variations between surface and subsurface tropical North Atlantic. Geophysical Research Letters, 2007, 34, .	4.0	102
58	Impact of the Atlantic Multidecadal Oscillation on North Pacific climate variability. Geophysical Research Letters, 2007, 34, .	4.0	217
59	Impact of Atlantic multidecadal oscillations on India/Sahel rainfall and Atlantic hurricanes. Geophysical Research Letters, 2006, 33, .	4.0	728
60	Impact of Great Salinity Anomalies on the Low-Frequency Variability of the North Atlantic Climate. Journal of Climate, 2006, 19, 470-482.	3.2	62
61	GFDL's CM2 Global Coupled Climate Models. Part II: The Baseline Ocean Simulation. Journal of Climate, 2006, 19, 675-697.	3.2	269
62	GFDL's CM2 Global Coupled Climate Models. Part I: Formulation and Simulation Characteristics. Journal of Climate, 2006, 19, 643-674.	3.2	1,431
63	Formulation of an ocean model for global climate simulations. Ocean Science, 2005, 1, 45-79.	3.4	343
64	Simulated Tropical Response to a Substantial Weakening of the Atlantic Thermohaline Circulation. Journal of Climate, 2005, 18, 1853-1860.	3.2	673
65	Global seiching of thermocline waters between the Atlantic and the Indian-Pacific Ocean Basins. Geophysical Research Letters, 2004, 31, .	4.0	54
66	Reply to Comment by Roberta M. Hotinski, Lee R. Kump, and Karen L. Bice on "Could the Late Permian deep ocean have been anoxic?". Paleoceanography, 2003, 18, n/a-n/a.	3.0	5
67	Mechanisms of Thermohaline Mode Switching with Application to Warm Equable Climates. Journal of Climate, 2002, 15, 2056-2072.	3.2	10
68	Could the Late Permian deep ocean have been anoxic?. Paleoceanography, 2001, 16, 317-329.	3.0	72
69	Liquid-Liquid Phase Transition: Evidence from Simulations. Physical Review Letters, 1997, 78, 2409-2412.	7.8	270
70	Cooperative molecular motions in water: The liquid-liquid critical point hypothesis. Physica A: Statistical Mechanics and Its Applications, 1997, 236, 19-37.	2.6	39
71	Two sources of deep decadal variability in the central Labrador Sea open-ocean convection region. Geophysical Research Letters, 0, , .	4.0	3
72	A Simple Conceptual Model for the Self-Sustained Multidecadal AMOC Variability. Geophysical Research Letters, 0, , .	4.0	2