

Bohua Huang

List of Publications by Year in descending order

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114
papers

4,334
citations

87886

38
h-index

128286

60
g-index

116
all docs

116
docs citations

116
times ranked

3479
citing authors

#	ARTICLE	IF	CITATIONS
1	Warm Events in the Tropical Atlantic. <i>Journal of Physical Oceanography</i> , 1994, 24, 888-903.	1.7	200
2	Simulating the diurnal cycle of rainfall in global climate models: resolution versus parameterization. <i>Climate Dynamics</i> , 2012, 39, 399-418.	3.8	190
3	Interannual variability in the tropical Indian Ocean. <i>Journal of Geophysical Research</i> , 2002, 107, 20-1.	3.3	177
4	Tropical Cyclone Climatology in a 10-km Global Atmospheric GCM: Toward Weather-Resolving Climate Modeling. <i>Journal of Climate</i> , 2012, 25, 3867-3893.	3.2	157
5	Multiseasonal Predictions with a Coupled Tropical Ocean–Global Atmosphere System. <i>Monthly Weather Review</i> , 1997, 125, 789-808.	1.4	124
6	Interferential Impact of ENSO and PDO on Dry and Wet Conditions in the U.S. Great Plains. <i>Journal of Climate</i> , 2009, 22, 6047-6065.	3.2	119
7	Evidence for Enhanced Land–Atmosphere Feedback in a Warming Climate. <i>Journal of Hydrometeorology</i> , 2012, 13, 981-995.	1.9	104
8	Intrinsic Ocean–Atmosphere Variability of the Tropical Atlantic Ocean. <i>Journal of Climate</i> , 2004, 17, 2058-2077.	3.2	96
9	Salinity anomaly as a trigger for ENSO events. <i>Scientific Reports</i> , 2014, 4, 6821.	3.3	92
10	Ocean–Atmosphere Interactions in the Tropical and Subtropical Atlantic Ocean. <i>Journal of Climate</i> , 2005, 18, 1652-1672.	3.2	91
11	An analysis of warm pool and cold tongue El Niño–sea coupling processes, global influences, and recent trends. <i>Climate Dynamics</i> , 2012, 38, 2017-2035.	3.8	90
12	Persistence and Predictions of the Remarkable Warm Anomaly in the Northeastern Pacific Ocean during 2014–16. <i>Journal of Climate</i> , 2017, 30, 689-702.	3.2	85
13	The ENSO effect on the tropical Atlantic variability: A regionally coupled model study. <i>Geophysical Research Letters</i> , 2002, 29, 35-1.	4.0	83
14	The Rossby wave as a key mechanism of Indian Ocean climate variability. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2004, 51, 2123-2136.	1.4	80
15	Evolution of model systematic errors in the Tropical Atlantic Basin from coupled climate hindcasts. <i>Climate Dynamics</i> , 2007, 28, 661-682.	3.8	80
16	Ensemble ENSO hindcasts initialized from multiple ocean analyses. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	73
17	The influences of East Asian Monsoon on summer precipitation in Northeast China. <i>Climate Dynamics</i> , 2017, 48, 1647-1659.	3.8	73
18	The Interdecadal Shift of ENSO Properties in 1999/2000: A Review. <i>Journal of Climate</i> , 2020, 33, 4441-4462.	3.2	71

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19	The role of off-equatorial surface temperature anomalies in the 2014 El Niño prediction. <i>Scientific Reports</i> , 2016, 6, 19677.	3.3	68
20	Verification of Land–Atmosphere Coupling in Forecast Models, Reanalyses, and Land Surface Models Using Flux Site Observations. <i>Journal of Hydrometeorology</i> , 2018, 19, 375-392.	1.9	66
21	Ocean Data Assimilation, Initialization, and Predictions of ENSO with a Coupled GCM. <i>Monthly Weather Review</i> , 1999, 127, 1187-1207.	1.4	60
22	Connection of stratospheric QBO with global atmospheric general circulation and tropical SST. Part I: methodology and composite life cycle. <i>Climate Dynamics</i> , 2012, 38, 1-23.	3.8	60
23	Ocean Wave Dynamics and El Niño. <i>Journal of Climate</i> , 1995, 8, 2415-2439.	3.2	59
24	Role of the Indian Ocean in the ENSO–Indian Summer Monsoon Teleconnection in the NCEP Climate Forecast System. <i>Journal of Climate</i> , 2012, 25, 2490-2508.	3.2	59
25	Predictable patterns of the Asian and Indo-Pacific summer precipitation in the NCEP CFS. <i>Climate Dynamics</i> , 2009, 32, 989-1001.	3.8	54
26	Mechanisms for the Interannual Variability in the Tropical Indian Ocean. Part II: Regional Processes. <i>Journal of Climate</i> , 2007, 20, 2937-2960.	3.2	51
27	Seasonality in Prediction Skill and Predictable Pattern of Tropical Indian Ocean SST. <i>Journal of Climate</i> , 2015, 28, 7962-7984.	3.2	51
28	Mechanisms for the Interannual Variability in the Tropical Indian Ocean. Part I: The Role of Remote Forcing from the Tropical Pacific. <i>Journal of Climate</i> , 2007, 20, 2917-2936.	3.2	50
29	Future Changes in the Western North Pacific Tropical Cyclone Activity Projected by a Multidecadal Simulation with a 16-km Global Atmospheric GCM. <i>Journal of Climate</i> , 2014, 27, 7622-7646.	3.2	49
30	Physical Processes Associated with the Tropical Atlantic SST Gradient during the Anomalous Evolution in the Southeastern Ocean. <i>Journal of Climate</i> , 2007, 20, 3366-3378.	3.2	47
31	An ensemble estimation of the variability of upper-ocean heat content over the tropical Atlantic Ocean with multi-ocean reanalysis products. <i>Climate Dynamics</i> , 2012, 39, 1001-1020.	3.8	46
32	The Predictive Skill and the Most Predictable Pattern in the Tropical Atlantic: The Effect of ENSO. <i>Monthly Weather Review</i> , 2007, 135, 1786-1806.	1.4	45
33	On the variety of coastal El Niño events. <i>Climate Dynamics</i> , 2019, 52, 7537-7552.	3.8	44
34	The relationship between thermocline depth and SST anomalies in the eastern equatorial Pacific: Seasonality and decadal variations. <i>Geophysical Research Letters</i> , 2015, 42, 4507-4515.	4.0	43
35	The influence of systematic errors in the Southeast Pacific on ENSO variability and prediction in a coupled GCM. <i>Climate Dynamics</i> , 2009, 32, 1015-1034.	3.8	42
36	Variations of the East Asian Mei-Yu and Simulation and Prediction by the NCEP Climate Forecast System. <i>Journal of Climate</i> , 2011, 24, 94-108.	3.2	41

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37	Prediction skill of monthly SST in the North Atlantic Ocean in NCEP Climate Forecast System version 2. <i>Climate Dynamics</i> , 2013, 40, 2745-2759.	3.8	41
38	Characteristics of the Interannual and Decadal Variability in a General Circulation Model of the Tropical Atlantic Ocean. <i>Journal of Physical Oceanography</i> , 1997, 27, 1693-1712.	1.7	40
39	Predictable patterns and predictive skills of monsoon precipitation in Northern Hemisphere summer in NCEP CFSv2 reforecasts. <i>Climate Dynamics</i> , 2013, 40, 3071-3088.	3.8	40
40	Interdecadal variations of ENSO around 1999/2000. <i>Journal of Meteorological Research</i> , 2017, 31, 73-81.	2.4	37
41	Annual Cycle and ENSO in a Coupled Ocean-Atmosphere General Circulation Model. <i>Monthly Weather Review</i> , 1997, 125, 680-702.	1.4	36
42	The Response of an Ocean General Circulation Model to Surface Wind Stress Produced by an Atmospheric General Circulation Model. <i>Monthly Weather Review</i> , 1995, 123, 3059-3085.	1.4	35
43	Persistent Atmospheric and Oceanic Anomalies in the North Atlantic from Summer 2009 to Summer 2010. <i>Journal of Climate</i> , 2011, 24, 5812-5830.	3.2	35
44	On the Challenge for ENSO Cycle Prediction: An Example from NCEP Climate Forecast System, Version 2. <i>Journal of Climate</i> , 2019, 32, 183-194.	3.2	35
45	Physical Processes Associated with the Tropical Atlantic SST Meridional Gradient. <i>Journal of Climate</i> , 2006, 19, 5500-5518.	3.2	34
46	Climate drift of AMOC, North Atlantic salinity and arctic sea ice in CFSv2 decadal predictions. <i>Climate Dynamics</i> , 2015, 44, 559-583.	3.8	34
47	Reforecasting the ENSO Events in the Past 57 Years (1958-2014). <i>Journal of Climate</i> , 2017, 30, 7669-7693.	3.2	34
48	Ocean data assimilation using intermittent analyses and continuous model error correction. <i>Advances in Atmospheric Sciences</i> , 2002, 19, 965-992.	4.3	33
49	A Numerical Simulation of the Variability in the Tropical Atlantic Ocean, 1980-88. <i>Journal of Physical Oceanography</i> , 1995, 25, 835-854.	1.7	31
50	Prediction Skill of North Pacific Variability in NCEP Climate Forecast System Version 2: Impact of ENSO and Beyond. <i>Journal of Climate</i> , 2014, 27, 4263-4272.	3.2	31
51	Cloud-SST feedback in southeastern tropical Atlantic anomalous events. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	30
52	ENSO Prediction in Project Minerva: Sensitivity to Atmospheric Horizontal Resolution and Ensemble Size. <i>Journal of Climate</i> , 2015, 28, 2080-2095.	3.2	30
53	Asymmetric evolution of El Niño and La Niña: the recharge/discharge processes and role of the off-equatorial sea surface height anomaly. <i>Climate Dynamics</i> , 2017, 49, 2737-2748.	3.8	30
54	Low cloud errors over the southeastern Atlantic in the NCEP CFS and their association with lower-tropospheric stability and air-sea interaction. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	29

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55	Interannual variability of the Indian summer monsoon associated with the air-sea feedback in the northern Indian Ocean. <i>Climate Dynamics</i> , 2016, 46, 1977-1990.	3.8	28
56	Importance of convective parameterization in ENSO predictions. <i>Geophysical Research Letters</i> , 2017, 44, 6334-6342.	4.0	27
57	On the Shortening of the Lead Time of Ocean Warm Water Volume to ENSO SST Since 2000. <i>Scientific Reports</i> , 2017, 7, 4294.	3.3	27
58	Improved reliability of ENSO hindcasts with multi-ocean analyses ensemble initialization. <i>Climate Dynamics</i> , 2013, 41, 2785-2795.	3.8	26
59	Air-sea coupling in the North Atlantic during summer. <i>Climate Dynamics</i> , 2006, 26, 441-457.	3.8	24
60	Predicting US summer precipitation using NCEP Climate Forecast System version 2 initialized by multiple ocean analyses. <i>Climate Dynamics</i> , 2013, 41, 1941-1954.	3.8	24
61	Connection of the stratospheric QBO with global atmospheric general circulation and tropical SST. Part II: interdecadal variations. <i>Climate Dynamics</i> , 2012, 38, 25-43.	3.8	22
62	Spatial distribution and the interdecadal change of leading modes of heat budget of the mixed-layer in the tropical Pacific and the association with ENSO. <i>Climate Dynamics</i> , 2016, 46, 1753-1768.	3.8	22
63	An Analysis of Forced and Internal Variability in a Warmer Climate in CCSM3. <i>Journal of Climate</i> , 2012, 25, 2356-2373.	3.2	21
64	South Pacific Ocean Dipole: A Predictable Mode on Multiseasonal Time Scales. <i>Journal of Climate</i> , 2014, 27, 1648-1658.	3.2	21
65	Roles of Remote and Local Forcings in the Variation and Prediction of Regional Maritime Continent Rainfall in Wet and Dry Seasons. <i>Journal of Climate</i> , 2016, 29, 8871-8879.	3.2	21
66	Sensitivity of tropical climate to low-level clouds in the NCEP climate forecast system. <i>Climate Dynamics</i> , 2011, 36, 1795-1811.	3.8	20
67	The Role of Ocean Dynamics in the Interaction between the Atlantic Meridional and Equatorial Modes. <i>Journal of Climate</i> , 2012, 25, 3583-3598.	3.2	19
68	Sea Surface Temperature Predictions in NCEP CFSv2 Using a Simple Ocean Initialization Scheme. <i>Monthly Weather Review</i> , 2015, 143, 3176-3191.	1.4	19
69	Mean state and interannual variability of the Indian summer monsoon simulation by NCEP CFSv2. <i>Climate Dynamics</i> , 2016, 46, 3845-3864.	3.8	19
70	Predictability and prediction of Indian summer monsoon by CFSv2: implication of the initial shock effect. <i>Climate Dynamics</i> , 2018, 50, 159-178.	3.8	19
71	On the significance of the relationship between the North Atlantic Oscillation in early winter and Atlantic sea surface temperature anomalies. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	18
72	An Analysis of the Linkage of Pacific Subtropical Cells with the Recharge-Discharge Processes in ENSO Evolution. <i>Journal of Climate</i> , 2015, 28, 3786-3805.	3.2	18

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73	The Role of Reversed Equatorial Zonal Transport in Terminating an ENSO Event. <i>Journal of Climate</i> , 2016, 29, 5859-5877.	3.2	18
74	Predictive Skill and Predictable Patterns of the U.S. Seasonal Precipitation in CFSv2 Reforecasts of 60 Years (1958–2017). <i>Journal of Climate</i> , 2019, 32, 8603-8637.	3.2	18
75	Role of Atlantic air–sea interaction in modulating the effect of Tibetan Plateau heating on the upstream climate over Afro-Eurasia–Atlantic regions. <i>Climate Dynamics</i> , 2019, 53, 509-519.	3.8	18
76	Influences of tropical–extratropical interaction on the multidecadal AMOC variability in the NCEP climate forecast system. <i>Climate Dynamics</i> , 2012, 39, 531-555.	3.8	17
77	Contributions of Atmosphere–Ocean Interaction and Low-Frequency Variation to Intensity of Strong El Niño Events since 1979. <i>Journal of Climate</i> , 2019, 32, 1381-1394.	3.2	17
78	Seasonal Forecasting Skill of Sea-Level Anomalies in a Multi-Model Prediction Framework. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC017060.	2.6	17
79	Regional Structure of the Indian Summer Monsoon in Observations, Reanalysis, and Simulation. <i>Journal of Climate</i> , 2015, 28, 1824-1841.	3.2	16
80	Improved seasonal predictive skill and enhanced predictability of the Asian summer monsoon rainfall following ENSO events in NCEP CFSv2 hindcasts. <i>Climate Dynamics</i> , 2019, 52, 3079-3098.	3.8	16
81	Slow and fast annual cycles of the Asian summer monsoon in the NCEP CFSv2. <i>Climate Dynamics</i> , 2016, 47, 529-553.	3.8	14
82	Seasonal predictability of the tropical Atlantic variability: northern tropical Atlantic pattern. <i>Climate Dynamics</i> , 2019, 52, 6909-6929.	3.8	14
83	A spurious warming trend in the NMME equatorial Pacific SST hindcasts. <i>Climate Dynamics</i> , 2019, 53, 7287-7303.	3.8	14
84	A New Look at the Physics of Rossby Waves: A Mechanical–Coriolis Oscillation. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 303-316.	1.7	13
85	Improving prediction of two ENSO types using a multi-model ensemble based on stepwise pattern projection model. <i>Climate Dynamics</i> , 2020, 54, 3229-3243.	3.8	13
86	On the Interdecadal Variation of the Warm Water Volume in the Tropical Pacific Around 1999/2000. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD033306.	3.3	12
87	Leading patterns of the tropical Atlantic variability in a coupled general circulation model. <i>Climate Dynamics</i> , 2008, 30, 703-726.	3.8	11
88	Sensitivity of the tropical Pacific seasonal cycle and ENSO to changes in mean state induced by a surface heat flux adjustment in CCSM3. <i>Climate Dynamics</i> , 2011, 37, 325-341.	3.8	11
89	Leading Modes of the Upper-Ocean Temperature Interannual Variability along the Equatorial Atlantic Ocean in NCEP GODAS. <i>Journal of Climate</i> , 2013, 26, 4649-4663.	3.2	11
90	Interannual variability of the South Pacific Ocean in observations and simulated by the NCEP Climate Forecast System, version 2. <i>Climate Dynamics</i> , 2014, 43, 1141-1157.	3.8	11

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91	Dynamical and Thermodynamical Influences of the Maritime Continent on ENSO Evolution. <i>Scientific Reports</i> , 2018, 8, 15352.	3.3	10
92	Monthly Climatologies of Oceanic Friction Velocity Cubed. <i>Journal of Climate</i> , 2006, 19, 5700-5708.	3.2	9
93	Seasonal dependence of the predictable low-level circulation patterns over the tropical Indo-Pacific domain. <i>Climate Dynamics</i> , 2018, 50, 4263-4284.	3.8	9
94	An Examination of the AGCM Simulated Surface Wind Stress and Low-Level Winds over the Tropical Pacific Ocean. <i>Monthly Weather Review</i> , 1997, 125, 985-998.	1.4	9
95	A Comparison of Two Surface Wind Stress Analyses over the Tropical Atlantic during 1980â€“1987. <i>Journal of Climate</i> , 1996, 9, 906-927.	3.2	8
96	Evaluation of the CFSv2 CMIP5 decadal predictions. <i>Climate Dynamics</i> , 2015, 44, 543-557.	3.8	8
97	A multi-model analysis of the resolution influence on precipitation climatology in the Gulf Stream region. <i>Climate Dynamics</i> , 2017, 48, 1685-1704.	3.8	8
98	Predictable Patterns of the Atmospheric Low-Level Circulation over the Indo-Pacific Region in Project Minerva: Seasonal Dependence and Intraensemble Variability. <i>Journal of Climate</i> , 2018, 31, 8351-8379.	3.2	8
99	Does vertical temperature gradient of the atmosphere matter for El NiÃ±o development?. <i>Climate Dynamics</i> , 2017, 48, 1413-1429.	3.8	7
100	The Influence of Summer Deep Soil Temperature on Early Winter Snow Conditions in Eurasia in the NCEP CFSv2 Simulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 9062-9077.	3.3	7
101	Sensitivity of U.S. Drought Prediction Skill to Land Initial States. <i>Journal of Hydrometeorology</i> , 2020, 21, 2793-2811.	1.9	7
102	A Dissection of Energetics of the Geostrophic Flow: Reconciliation of Rossby Wave Energy Flux and Group Velocity. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 2179-2196.	1.7	6
103	Bulk connectivity of global SST and land precipitation variations. <i>Climate Dynamics</i> , 2022, 58, 195-209.	3.8	6
104	The relative roles of decadal climate variations and changes in the ocean observing system on seasonal prediction skill of tropical Pacific SST. <i>Climate Dynamics</i> , 2021, 56, 3045-3063.	3.8	6
105	Climatological influence of Eurasian winter surface conditions on the Asian and Indoâ€“Pacific summer circulation in the NCEP CFSv2 seasonal reforecasts. <i>International Journal of Climatology</i> , 2019, 39, 3431-3453.	3.5	5
106	Seasonal prediction skill and predictability of the Northern Hemisphere storm track variability in Project Minerva. <i>Climate Dynamics</i> , 2019, 52, 6427-6440.	3.8	5
107	Combined Role of High- and Low-Frequency Processes of Equatorial Zonal Transport in Terminating an ENSO Event. <i>Journal of Climate</i> , 2018, 31, 5461-5483.	3.2	4
108	Representation of Ocean-Atmosphere Processes Associated with Extended Monsoon Episodes over South Asia in CFSv2. <i>Frontiers in Earth Science</i> , 2018, 6, .	1.8	4

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109	Subannual to Interannual Variabilities of SST in the North Atlantic Ocean. <i>Journal of Climate</i> , 2020, 33, 5547-5564.	3.2	4
110	Oceanic meridional transports and their roles in warm water volume variability and ENSO in the tropical Pacific. <i>Climate Dynamics</i> , 2022, 59, 245-261.	3.8	4
111	An examination of the Northern Hemisphere mid-latitude storm track interannual variability simulated by climate modelsâ€™ sensitivity to model resolution and coupling. <i>Climate Dynamics</i> , 2019, 52, 4247-4268.	3.8	3
112	Seasonally-dependent impact of easterly wind bursts on the development of El Niño events. <i>Climate Dynamics</i> , 2019, 53, 1527-1546.	3.8	2
113	Cumulative Influence of Summer Subsurface Soil Temperature on North America Surface Temperature in the CFSv2. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031899.	3.3	2
114	Impact of Land Initial States Uncertainty on Subseasonal Surface Air Temperature Prediction in CFSv2 Reforecasts. <i>Journal of Hydrometeorology</i> , 2020, 21, 2101-2121.	1.9	2