Zeng-Zhen Hu

List of Publications by Year
in descending order

		87888	95266
118	5,530	38	68
papers	citations	h-index	g-index

121	121	121	4145
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	The intensification and shift of the annual North Atlantic Oscillation in a global warming scenario simulation. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 56, 112.	1.7	26
2	Bulk connectivity of global SST and land precipitation variations. Climate Dynamics, 2022, 58, 195-209.	3.8	6
3	Oceanic meridional transports and their roles in warm water volume variability and ENSO in the tropical Pacific. Climate Dynamics, 2022, 59, 245-261.	3.8	4
4	Tropical Cyclone Activities Over the Western North Pacific in Summer 2020: Transition From Silence in July to Unusually Active in August. Frontiers in Earth Science, 2022, 10, .	1.8	3
5	A Historical Perspective of the La NiÃ±a Event in 2020/2021. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	28
6	Hotspots of Monthly Land Precipitation Variations Affected by SST Anomalies. Journal of Climate, 2022, 35, 4927-4941.	3.2	6
7	Causes and Predictability of the 2021 Spring Southwestern China Severe Drought. Advances in Atmospheric Sciences, 2022, 39, 1766-1776.	4.3	14
8	Multi-year El NiÃ±o events tied to the North Pacific Oscillation. Nature Communications, 2022, 13, .	12.8	25
9	Subseasonal prediction and predictability of summer rainfall over eastern China in BCC_AGCM2.2. Climate Dynamics, 2021, 56, 2057-2069.	3.8	17
10	Basinwide Connections of Upper-Ocean Temperature Variability in the Equatorial Indian Ocean. Journal of Climate, 2021, 34, 4675-4692.	3.2	4
11	Inter-basin and Multi-time Scale Interactions in generating the 2019 Extreme Indian Ocean Dipole. Journal of Climate, 2021, , 1-39.	3.2	10
12	The Record-breaking Mei-yu in 2020 and Associated Atmospheric Circulation and Tropical SST Anomalies. Advances in Atmospheric Sciences, 2021, 38, 1980-1993.	4.3	134
13	Global Oceans. Bulletin of the American Meteorological Society, 2021, 102, S143-S198.	3.3	11
14	The Extreme Mei-yu Season in 2020: Role of the Madden-Julian Oscillation and the Cooperative Influence of the Pacific and Indian Oceans. Advances in Atmospheric Sciences, 2021, 38, 2040-2054.	4.3	24
15	Dominant modes of ensemble mean signal and noise in seasonal forecasts of SST. Climate Dynamics, 2021, 56, 1251-1264.	3.8	3
16	How much of monthly mean precipitation variability over global land is associated with SST anomalies?. Climate Dynamics, 2020, 54, 701-712.	3.8	35
17	Seasonal predictability of primary East Asian summer circulation patterns by three operational climate prediction models. Quarterly Journal of the Royal Meteorological Society, 2020, 146, 629-646.	2.7	20
18	On the Interdecadal Variation of the Warm Water Volume in the Tropical Pacific Around 1999/2000. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD033306.	3.3	12

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19	Cooperative effects of tropical Pacific and Atlantic SST forcing in southern China winter precipitation variability. Climate Dynamics, 2020, 55, 2903-2919.	3.8	19
20	How Significant Was the 1877/78 El NiÃ±o?. Journal of Climate, 2020, 33, 4853-4869.	3.2	15
21	The Interdecadal Shift of ENSO Properties in 1999/2000: A Review. Journal of Climate, 2020, 33, 4441-4462.	3.2	71
22	Enhancing the ENSO Predictability beyond the Spring Barrier. Scientific Reports, 2020, 10, 984.	3.3	34
23	Uncoupled El NiÃ±o Warming. Geophysical Research Letters, 2020, 47, e2020GL087621.	4.0	18
24	Was the extremely wet winter of 2018/2019 in the lower reach of the Yangtze River driven by El NiÃ±oâ€“Southern Oscillation?. International Journal of Climatology, 2020, 40, 6441-6457.	3.5	9
25	Subannual to Interannual Variabilities of SST in the North Atlantic Ocean. Journal of Climate, 2020, 33, 5547-5564.	3.2	4
26	On the variety of coastal El NiÃ±o events. Climate Dynamics, 2019, 52, 7537-7552.	3.8	44
27	Challenges in predicting and simulating summer rainfall in the eastern China. Climate Dynamics, 2019, 52, 2217-2233.	3.8	39
28	Contrastive Influence of ENSO and PNA on Variability and Predictability of North American Winter Precipitation. Journal of Climate, 2019, 32, 6271-6284.	3.2	32
29	On the Delayed Coupling Between Ocean and Atmosphere in Recent Weak El NiÃ±o Episodes. Geophysical Research Letters, 2019, 46, 11416-11425.	4.0	15
30	On the westward shift of tropical Pacific climate variability since 2000. Climate Dynamics, 2019, 53, 2905-2918.	3.8	14
31	Was the North American extreme climate in winter 2013/14 a SST forced response?. Climate Dynamics, 2019, 52, 3099-3110.	3.8	9
32	On the Challenge for ENSO Cycle Prediction: An Example from NCEP Climate Forecast System, Version 2. Journal of Climate, 2019, 32, 183-194.	3.2	35
33	Contributions of Atmosphereâ€“Ocean Interaction and Low-Frequency Variation to Intensity of Strong El NiÃ±o Events since 1979. Journal of Climate, 2019, 32, 1381-1394.	3.2	17
34	Strength Outlooks for the El NiÃ±oâ€“Southern Oscillation. Weather and Forecasting, 2019, 34, 165-175.	1.4	10
35	An update on the estimate of predictability of seasonal mean atmospheric variability using North American Multi-Model Ensemble. Climate Dynamics, 2019, 53, 7397-7409.	3.8	18
36	What drove the Pacific and North America climate anomalies in winter 2014/15?. Climate Dynamics, 2018, 51, 2667-2679.	3.8	15

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37	Interannual Variations of the First Rainy Season Precipitation over South China. Journal of Climate, 2018, 31, 623-640.	3.2	56
38	Do Climate Change and El NiÃ±o Increase Likelihood of Yangtze River Extreme Rainfall?. Bulletin of the American Meteorological Society, 2018, 99, S113-S117.	3.3	22
39	Estimating ENSO predictability based on multi-model hindcasts. Climate Dynamics, 2017, 48, 39-51.	3.8	41
40	Does vertical temperature gradient of the atmosphere matter for El NiÃ±o development?. Climate Dynamics, 2017, 48, 1413-1429.	3.8	7
41	An ENSO prediction approach based on ocean conditions and oceanâ€“atmosphere coupling. Climate Dynamics, 2017, 48, 2025-2044.	3.8	29
42	Importance of convective parameterization in ENSO predictions. Geophysical Research Letters, 2017, 44, 6334-6342.	4.0	27
43	Spatiotemporal variations of differences between surface air and ground temperatures in China. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7990-7999.	3.3	20
44	Asymmetric evolution of El NiÃ±o and La NiÃ±a: the recharge/discharge processes and role of the off-equatorial sea surface height anomaly. Climate Dynamics, 2017, 49, 2737-2748.	3.8	30
45	On the Shortening of the Lead Time of Ocean Warm Water Volume to ENSO SST Since 2000. Scientific Reports, 2017, 7, 4294.	3.3	27
46	Interdecadal variations of ENSO around 1999/2000. Journal of Meteorological Research, 2017, 31, 73-81.	2.4	37
47	Persistence and Predictions of the Remarkable Warm Anomaly in the Northeastern Pacific Ocean during 2014â€“16. Journal of Climate, 2017, 30, 689-702.	3.2	85
48	Predictable Components of ENSO Evolution in Real-time Multi-Model Predictions. Scientific Reports, 2016, 6, 35909.	3.3	33
49	The role of off-equatorial surface temperature anomalies in the 2014 El NiÃ±o prediction. Scientific Reports, 2016, 6, 19677.	3.3	68
50	Ranking the strongest ENSO events while incorporating SST uncertainty. Geophysical Research Letters, 2016, 43, 9165-9172.	4.0	84
51	An Assessment of Multimodel Simulations for the Variability of Western North Pacific Tropical Cyclones and Its Association with ENSO. Journal of Climate, 2016, 29, 6401-6423.	3.2	31
52	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. Climate Dynamics, 2016, 46, 1753-1768.	3.8	22
53	Trend and seasonality of land precipitation in observations and CMIP5 model simulations. International Journal of Climatology, 2016, 36, 3781-3793.	3.5	18
54	The Role of Reversed Equatorial Zonal Transport in Terminating an ENSO Event. Journal of Climate, 2016, 29, 5859-5877.	3.2	18

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55	Is the interdecadal variation of the summer rainfall over eastern China associated with SST?. Climate Dynamics, 2016, 46, 135-146.	3.8	14
56	Influence of availability of TAO data on NCEP ocean data assimilation systems along the equatorial Pacific. Journal of Geophysical Research: Oceans, 2015, 120, 5534-5544.	2.6	8
57	Evaluation of the CFSv2 CMIP5 decadal predictions. Climate Dynamics, 2015, 44, 543-557.	3.8	8
58	Climate drift of AMOC, North Atlantic salinity and arctic sea ice in CFSv2 decadal predictions. Climate Dynamics, 2015, 44, 559-583.	3.8	34
59	Tropospheric biennial oscillation of summer monsoon rainfall over East Asia and its association with ENSO. Climate Dynamics, 2015, 45, 1747-1759.	3.8	18
60	Prediction Skill of North Pacific Variability in NCEP Climate Forecast System Version 2: Impact of ENSO and Beyond. Journal of Climate, 2014, 27, 4263-4272.	3.2	31
61	South Pacific Ocean Dipole: A Predictable Mode on Multiseasonal Time Scales. Journal of Climate, 2014, 27, 1648-1658.	3.2	21
62	Variability of Summer Rainfall in Northeast China and Its Connection with Spring Rainfall Variability in the Huang-Huai Region and Indian Ocean SST. Journal of Climate, 2014, 27, 7086-7101.	3.2	29
63	How Variable Is the Uncertainty in ENSO Sea Surface Temperature Prediction?. Journal of Climate, 2014, 27, 2779-2788.	3.2	30
64	SST and ENSO variability and change simulated in historical experiments of CMIP5 models. Climate Dynamics, 2014, 42, 2113-2124.	3.8	52
65	Influence of the warm pool and cold tongue El NiÃ±os on the following Caribbean rainy season rainfall. Climate Dynamics, 2014, 42, 919-929.	3.8	14
66	Interannual and interdecadal variability of ocean temperature along the equatorial Pacific in conjunction with ENSO. Climate Dynamics, 2014, 42, 1243-1258.	3.8	50
67	Simulation and projection of the western pacific subtropical high in CMIP5 models. Journal of Meteorological Research, 2014, 28, 327-340.	2.4	41
68	Why were some La NiÃ±as followed by another La NiÃ±a?. Climate Dynamics, 2014, 42, 1029-1042.	3.8	83
69	Variability and predictability of Northeast China climate during 1948â€“2012. Climate Dynamics, 2014, 43, 787-804.	3.8	39
70	Interannual variability of the South Pacific Ocean in observations and simulated by the NCEP Climate Forecast System, version 2. Climate Dynamics, 2014, 43, 1141-1157.	3.8	11
71	Salinity anomaly as a trigger for ENSO events. Scientific Reports, 2014, 4, 6821.	3.3	92
72	Predicting US summer precipitation using NCEP Climate Forecast System version 2 initialized by multiple ocean analyses. Climate Dynamics, 2013, 41, 1941-1954.	3.8	24

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73	Prediction skill of monthly SST in the North Atlantic Ocean in NCEP Climate Forecast System version 2. Climate Dynamics, 2013, 40, 2745-2759.	3.8	41
74	Predictable patterns and predictive skills of monsoon precipitation in Northern Hemisphere summer in NCEP CFSv2 reforecasts. Climate Dynamics, 2013, 40, 3071-3088.	3.8	40
75	Linear trends in sea surface temperature of the tropical Pacific Ocean and implications for the El NiÃ±o-Southern Oscillation. Climate Dynamics, 2013, 40, 1223-1236.	3.8	93
76	Improved reliability of ENSO hindcasts with multi-ocean analyses ensemble initialization. Climate Dynamics, 2013, 41, 2785-2795.	3.8	26
77	Weakened Interannual Variability in the Tropical Pacific Ocean since 2000. Journal of Climate, 2013, 26, 2601-2613.	3.2	132
78	Why Did Large Differences Arise in the Sea Surface Temperature Datasets across the Tropical Pacific during 2012?. Journal of Atmospheric and Oceanic Technology, 2013, 30, 2944-2953.	1.3	27
79	Leading Modes of the Upper-Ocean Temperature Interannual Variability along the Equatorial Atlantic Ocean in NCEP GODAS. Journal of Climate, 2013, 26, 4649-4663.	3.2	11
80	Does Knowing the Oceanic PDO Phase Help Predict the Atmospheric Anomalies in Subsequent Months?. Journal of Climate, 2013, 26, 1268-1285.	3.2	25
81	Prediction Skill and Bias of Tropical Pacific Sea Surface Temperatures in the NCEP Climate Forecast System Version 2. Journal of Climate, 2013, 26, 5358-5378.	3.2	104
82	An Analysis of Forced and Internal Variability in a Warmer Climate in CCSM3. Journal of Climate, 2012, 25, 2356-2373.	3.2	21
83	Uncertainty in the oceanâ€“atmosphere feedbacks associated with ENSO in the reanalysis products. Climate Dynamics, 2012, 39, 575-588.	3.8	58
84	Influences of tropicalâ€“extratropical interaction on the multidecadal AMOC variability in the NCEP climate forecast system. Climate Dynamics, 2012, 39, 531-555.	3.8	17
85	Ensemble ENSO hindcasts initialized from multiple ocean analyses. Geophysical Research Letters, 2012, 39, .	4.0	73
86	An analysis of warm pool and cold tongue El NiÃ±os: airâ€“sea coupling processes, global influences, and recent trends. Climate Dynamics, 2012, 38, 2017-2035.	3.8	90
87	Connection of the stratospheric QBO with global atmospheric general circulation and tropical SST. Part II: interdecadal variations. Climate Dynamics, 2012, 38, 25-43.	3.8	22
88	Connection of stratospheric QBO with global atmospheric general circulation and tropical SST. Part I: methodology and composite life cycle. Climate Dynamics, 2012, 38, 1-23.	3.8	60
89	Variations of the East Asian Mei-Yu and Simulation and Prediction by the NCEP Climate Forecast System. Journal of Climate, 2011, 24, 94-108.	3.2	41
90	Sensitivity of tropical climate to low-level clouds in the NCEP climate forecast system. Climate Dynamics, 2011, 36, 1795-1811.	3.8	20

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91	An assessment of oceanic variability in the NCEP climate forecast system reanalysis. Climate Dynamics, 2011, 37, 2511-2539.	3.8	144
92	Persistent Atmospheric and Oceanic Anomalies in the North Atlantic from Summer 2009 to Summer 2010. Journal of Climate, 2011, 24, 5812-5830.	3.2	35
93	Interferential Impact of ENSO and PDO on Dry and Wet Conditions in the U.S. Great Plains. Journal of Climate, 2009, 22, 6047-6065.	3.2	119
94	Predictable patterns of the Asian and Indo-Pacific summer precipitation in the NCEP CFS. Climate Dynamics, 2009, 32, 989-1001.	3.8	54
95	Leading patterns of the tropical Atlantic variability in a coupled general circulation model. Climate Dynamics, 2008, 30, 703-726.	3.8	11
96	Low cloud errors over the southeastern Atlantic in the NCEP CFS and their association with lowerâ€tropospheric stability and airâ€sea interaction. Journal of Geophysical Research, 2008, 113, .	3.3	29
97	The Predictive Skill and the Most Predictable Pattern in the Tropical Atlantic: The Effect of ENSO. Monthly Weather Review, 2007, 135, 1786-1806.	1.4	45
98	Physical Processes Associated with the Tropical Atlantic SST Gradient during the Anomalous Evolution in the Southeastern Ocean. Journal of Climate, 2007, 20, 3366-3378.	3.2	47
99	Cloud-SST feedback in southeastern tropical Atlantic anomalous events. Journal of Geophysical Research, 2007, 112, .	3.3	30
100	Evolution of model systematic errors in the Tropical Atlantic Basin from coupled climate hindcasts. Climate Dynamics, 2007, 28, 661-682.	3.8	80
101	On the significance of the relationship between the North Atlantic Oscillation in early winter and Atlantic sea surface temperature anomalies. Journal of Geophysical Research, 2006, 111, .	3.3	18
102	Evaluation of the Second Global Soil Wetness Project soil moisture simulations: 2. Sensitivity to external meteorological forcing. Journal of Geophysical Research, 2006, 111, .	3.3	54
103	Physical Processes Associated with the Tropical Atlantic SST Meridional Gradient. Journal of Climate, 2006, 19, 5500-5518.	3.2	34
104	Airâ€“sea coupling in the North Atlantic during summer. Climate Dynamics, 2006, 26, 441-457.	3.8	24
105	Connection of summer rainfall variations in South and East Asia: role of El NiÃ±o-southern oscillation. International Journal of Climatology, 2005, 25, 1279-1289.	3.5	58
106	Sea-ice change and its connection with climate change in the Arctic in CMIP2 simulations. Journal of Geophysical Research, 2004, 109, .	3.3	11
107	Potential mechanism for response of El NiÃ±o-Southern Oscillation variability to change in land surface energy budget. Journal of Geophysical Research, 2004, 109, n/a-n/a.	3.3	9
108	The intensification and shift of the annual North Atlantic Oscillation in a global warming scenario simulation. Tellus, Series A: Dynamic Meteorology and Oceanography, 2004, 56, 112-124.	1.7	49

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109	Long-term climate variations in China and global warming signals. Journal of Geophysical Research, 2003, 108, .	3.3	293
110	Evolution of ENSO-Related Rainfall Anomalies in East Asia. Journal of Climate, 2003, 16, 3742-3758.	3.2	577
111	Forcing of Northern Hemisphere Climate Trends. Journals of the Atmospheric Sciences, 2003, 60, 1504-1521.	1.7	83
112	Dynamical and cloud-radiation feedbacks in El NiÃ±o and greenhouse warming. Geophysical Research Letters, 2001, 28, 1539-1542.	4.0	25
113	Impact of global warming on the interannual and interdecadal climate modes in a coupled GCM. Climate Dynamics, 2001, 17, 361-374.	3.8	15
114	Impact of global warming on the Asian winter monsoon in a coupled GCM. Journal of Geophysical Research, 2000, 105, 4607-4624.	3.3	105
115	Intensified Asian Summer Monsoon and its variability in a coupled model forced by increasing greenhouse gas concentrations. Geophysical Research Letters, 2000, 27, 2681-2684.	4.0	147
116	Interdecadal variability of summer climate over East Asia and its association with 500 hPa height and global sea surface temperature. Journal of Geophysical Research, 1997, 102, 19403-19412.	3.3	228
117	Wavelet Analysis of Summer Rainfall over North China and India and SOI Using 1891-1992 Data. Journal of the Meteorological Society of Japan, 1996, 74, 833-844.	1.8	30
118	Summer Climate Variability in China and Its Association with 500 hPa Height and Tropical Convection. Journal of the Meteorological Society of Japan, 1996, 74, 425-445.	1.8	221