

# Ruiqiang Ding

## List of Publications by Year in descending order

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117  
papers

2,515  
citations

218677

26  
h-index

243625

44  
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118  
all docs

118  
docs citations

118  
times ranked

1935  
citing authors

#	ARTICLE	IF	CITATIONS
1	Western tropical Pacific multidecadal variability forced by the Atlantic multidecadal oscillation. <i>Nature Communications</i> , 2017, 8, 15998.	12.8	202
2	Nonlinear finite-time Lyapunov exponent and predictability. <i>Physics Letters, Section A: General, Atomic and Solid State Physics</i> , 2007, 364, 396-400.	2.1	133
3	The Victoria mode in the North Pacific linking extratropical sea level pressure variations to ENSO. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 27-45.	3.3	131
4	Interdecadal shift in the relationship between the East Asian summer monsoon and the tropical Indian Ocean. <i>Climate Dynamics</i> , 2010, 34, 1059-1071.	3.8	124
5	Decadal change of the spring dust storm in northwest China and the associated atmospheric circulation. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	108
6	The impact of South Pacific extratropical forcing on ENSO and comparisons with the North Pacific. <i>Climate Dynamics</i> , 2015, 44, 2017-2034.	3.8	93
7	Temporal and Spatial Distribution of Atmospheric Predictability Limit by Local Dynamical Analogs. <i>Monthly Weather Review</i> , 2011, 139, 3265-3283.	1.4	92
8	A connection from Arctic stratospheric ozone to El Niño-Southern oscillation. <i>Environmental Research Letters</i> , 2016, 11, 124026.	5.2	80
9	The warm Blob in the northeast Pacific—the bridge leading to the 2015/16 El Niño. <i>Environmental Research Letters</i> , 2017, 12, 054019.	5.2	65
10	Recent Acceleration of Arabian Sea Warming Induced by the Atlantic–Western Pacific Trans-basin Multidecadal Variability. <i>Geophysical Research Letters</i> , 2019, 46, 1662-1671.	4.0	59
11	Temporal and spatial distribution of the predictability limit of monthly sea surface temperature in the global oceans. <i>International Journal of Climatology</i> , 2013, 33, 1936-1947.	3.5	57
12	Estimate of the Predictability of Boreal Summer and Winter Intraseasonal Oscillations from Observations. <i>Monthly Weather Review</i> , 2011, 139, 2421-2438.	1.4	54
13	Predictability of the Madden–Julian Oscillation Estimated Using Observational Data. <i>Monthly Weather Review</i> , 2010, 138, 1004-1013.	1.4	53
14	Joint impact of North and South Pacific extratropical atmospheric variability on the onset of ENSO events. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 279-298.	3.3	50
15	Influence of the North Pacific Victoria mode on the Pacific ITCZ summer precipitation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 964-979.	3.3	47
16	Estimating the limit of decadal-scale climate predictability using observational data. <i>Climate Dynamics</i> , 2016, 46, 1563-1580.	3.8	42
17	Cold season Africa–Asia multidecadal teleconnection pattern and its relation to the Atlantic multidecadal variability. <i>Climate Dynamics</i> , 2017, 48, 3903-3918.	3.8	41
18	Nonlinear local Lyapunov exponent and atmospheric predictability research. <i>Science in China Series D: Earth Sciences</i> , 2006, 49, 1111-1120.	0.9	37

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19	The Application of Nonlinear Local Lyapunov Vectors to Ensemble Predictions in Lorenz Systems. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 3554-3567.	1.7	34
20	Enhancing the ENSO Predictability beyond the Spring Barrier. <i>Scientific Reports</i> , 2020, 10, 984.	3.3	34
21	Ordering Ag nanowire arrays by spontaneous spreading of volatile droplet on solid surface. <i>Scientific Reports</i> , 2014, 4, 6742.	3.3	31
22	Linking a sea level pressure anomaly dipole over North America to the central Pacific El Niño. <i>Climate Dynamics</i> , 2017, 49, 1321-1339.	3.8	31
23	NAO implicated as a predictor of the surface air temperature multidecadal variability over East Asia. <i>Climate Dynamics</i> , 2019, 53, 895-905.	3.8	30
24	Influence of the NAO on Wintertime Surface Air Temperature over East Asia: Multidecadal Variability and Decadal Prediction. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 625-642.	4.3	30
25	Strengthening relationship between ENSO and western Russian summer surface temperature. <i>Geophysical Research Letters</i> , 2016, 43, 843-851.	4.0	29
26	An ENSO prediction approach based on ocean conditions and ocean-atmosphere coupling. <i>Climate Dynamics</i> , 2017, 48, 2025-2044.	3.8	29
27	Enhanced the performance of dye-sensitized solar cells with a novel photoanode using TiO <sub>2</sub> nanoflower clusters and nanoparticles. <i>Materials Letters</i> , 2013, 107, 210-213.	2.6	27
28	Sea surface temperature inter-hemispheric dipole and its relation to tropical precipitation. <i>Environmental Research Letters</i> , 2013, 8, 044006.	5.2	27
29	Influences of ENSO Teleconnection on the Persistence of Sea Surface Temperature in the Tropical Indian Ocean. <i>Journal of Climate</i> , 2012, 25, 8177-8195.	3.2	26
30	Influence of the North Pacific Victoria mode on western North Pacific tropical cyclone genesis. <i>Climate Dynamics</i> , 2019, 52, 245-256.	3.8	25
31	Multi-year El Niño events tied to the North Pacific Oscillation. <i>Nature Communications</i> , 2022, 13, .	12.8	25
32	Trends and interdecadal changes of weather predictability during 1950s-1990s. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	24
33	Tropical cyclones act to intensify El Niño. <i>Nature Communications</i> , 2019, 10, 3793.	12.8	24
34	Decadal and seasonal dependence of North Pacific sea surface temperature persistence. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	21
35	Influences of the North Pacific Victoria Mode on the South China Sea Summer Monsoon. <i>Atmosphere</i> , 2018, 9, 229.	2.3	21
36	Interdecadal change in the lagged relationship between the Pacific-South American pattern and ENSO. <i>Climate Dynamics</i> , 2016, 47, 2867-2884.	3.8	20

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37	Effect of the Indo-Pacific Warm Pool on Lower-Stratospheric Water Vapor and Comparison with the Effect of ENSO. <i>Journal of Climate</i> , 2018, 31, 929-943.	3.2	20
38	The effects of the Indo-Pacific warm pool on the stratosphere. <i>Climate Dynamics</i> , 2018, 51, 4043-4064.	3.8	18
39	Does Extreme El Niño Have a Different Effect on the Stratosphere in Boreal Winter Than Its Moderate Counterpart?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3071-3086.	3.3	17
40	Effects of Arctic stratospheric ozone changes on spring precipitation in the northwestern United States. <i>Atmospheric Chemistry and Physics</i> , 2019, 19, 861-875.	4.9	16
41	An inter-basin teleconnection from the North Atlantic to the subarctic North Pacific at multidecadal time scales. <i>Climate Dynamics</i> , 2020, 54, 807-822.	3.8	16
42	Attractor radius and global attractor radius and their application to the quantification of predictability limits. <i>Climate Dynamics</i> , 2018, 51, 2359-2374.	3.8	15
43	Atlantic Meridional Overturning Circulation reconstructions and instrumentally observed multidecadal climate variability: A comparison of indicators. <i>International Journal of Climatology</i> , 2021, 41, 763-778.	3.5	15
44	Decadal cooling in the Indian summer monsoon after 1997/1998 El Niño and its impact on the East Asian summer monsoon. <i>Geophysical Research Letters</i> , 2010, 37, .	4.0	14
45	Relationships between the limit of predictability and initial error in the uncoupled and coupled Lorenz models. <i>Advances in Atmospheric Sciences</i> , 2012, 29, 1078-1088.	4.3	13
46	Comparison of nonlinear local Lyapunov vectors with bred vectors, random perturbations and ensemble transform Kalman filter strategies in a barotropic model. <i>Advances in Atmospheric Sciences</i> , 2016, 33, 1036-1046.	4.3	13
47	The application of nonlinear local Lyapunov vectors to the Zebiak's Cane model and their performance in ensemble prediction. <i>Climate Dynamics</i> , 2018, 51, 283-304.	3.8	13
48	Oceanic forcing of the interhemispheric SST dipole associated with the Atlantic Multidecadal Oscillation. <i>Environmental Research Letters</i> , 2018, 13, 074026.	5.2	13
49	Relative Contributions of North and South Pacific Sea Surface Temperature Anomalies to ENSO. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6222-6237.	3.3	13
50	The application of localized surface plasmons resonance in Ag nanoparticles assisted Si chemical etching. <i>Applied Physics Letters</i> , 2014, 104, .	3.3	12
51	Determining the spectrum of the nonlinear local Lyapunov exponents in a multidimensional chaotic system. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 1027-1034.	4.3	12
52	Comparison of Nonlinear Local Lyapunov Vectors and Bred Vectors in Estimating the Spatial Distribution of Error Growth. <i>Journals of the Atmospheric Sciences</i> , 2018, 75, 1073-1087.	1.7	12
53	Spring Aleutian Low Weakening and Surface Cooling Trend in Northwest North America During Recent Decades. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 12078-12092.	3.3	11
54	Influence of the preceding austral summer Southern Hemisphere annular mode on the amplitude of ENSO decay. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 1358-1379.	4.3	10

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55	Inter-decadal change in potential predictability of the East Asian summer monsoon. <i>Theoretical and Applied Climatology</i> , 2019, 136, 403-415.	2.8	10
56	Quantitative study of the relative effects of initial condition and model uncertainties on local predictability in a nonlinear dynamical system. <i>Chaos, Solitons and Fractals</i> , 2020, 139, 110094.	5.1	10
57	Nonlinear atmospheric and climate dynamics in China (2003–2006): A review. <i>Advances in Atmospheric Sciences</i> , 2007, 24, 1077-1085.	4.3	9
58	Winter Persistence Barrier of Sea Surface Temperature in the Northern Tropical Atlantic Associated with ENSO. <i>Journal of Climate</i> , 2011, 24, 2285-2299.	3.2	9
59	Cross-Seasonal Influence of the SAM on Southern Hemisphere Extratropical SST and its Relationship with Meridional Circulation in CMIP5 models. <i>International Journal of Climatology</i> , 2018, 38, 1499-1519.	3.5	9
60	Asymmetry of the Predictability Limit of the Warm ENSO Phase. <i>Geophysical Research Letters</i> , 2018, 45, 7646-7653.	4.0	9
61	Linking the North American Dipole to the Pacific Meridional Mode. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 3020-3034.	3.3	9
62	Comparisons of two ensemble mean methods in measuring the average error growth and the predictability. <i>Journal of Meteorological Research</i> , 2011, 25, 395-404.	1.0	8
63	Dominant SST Mode in the Southern Hemisphere Extratropics and Its Influence on Atmospheric Circulation. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 881-895.	4.3	8
64	Predictability of Tropical Cyclone Intensity over the Western North Pacific Using the IBTrACS Dataset. <i>Monthly Weather Review</i> , 2018, 146, 2741-2755.	1.4	8
65	Determination of the Backward Predictability Limit and Its Relationship with the Forward Predictability Limit. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 669-677.	4.3	8
66	Quantitative Comparison of Predictabilities of Warm and Cold Events Using the Backward Nonlinear Local Lyapunov Exponent Method. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 951-958.	4.3	8
67	Dynamics and Predictability of High-Impact Weather and Climate Events. <i>Bulletin of the American Meteorological Society</i> , 2013, 94, ES179-ES182.	3.3	7
68	Relationships between the extratropical ENSO precursor and leading modes of atmospheric variability in the Southern Hemisphere. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 360-370.	4.3	7
69	Asymmetric Response of Predictability of East Asian Summer Monsoon to ENSO. <i>Scientific Online Letters on the Atmosphere</i> , 2018, 14, 52-56.	1.4	7
70	Model Forecast Error Correction Based on the Local Dynamical Analog Method: An Example Application to the ENSO Forecast by an Intermediate Coupled Model. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088986.	4.0	7
71	Is the North Pacific Victoria Mode a Predictor of Winter Rainfall over South China?. <i>Journal of Climate</i> , 2020, 33, 8833-8847.	3.2	7
72	Relative contributions to ENSO of the seasonal footprinting and trade wind charging mechanisms associated with the Victoria mode. <i>Climate Dynamics</i> , 2023, 60, 47-63.	3.8	7

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73	Improved Global Surface Temperature Simulation using Stratospheric Ozone Forcing with More Accurate Variability. <i>Scientific Reports</i> , 2018, 8, 14474.	3.3	6
74	Decadal Coupled Ocean–Atmosphere Interaction in North Atlantic and Global Warming Hiatus. , 0, , 131-143.		6
75	On the Differences Between the South Pacific Meridional and Quadrupole Modes. <i>Journal of Geophysical Research: Oceans</i> , 2020, 125, e2019JC015500.	2.6	6
76	Evaluation of the performance of CMIP5 and CMIP6 models in simulating the South Pacific Quadrupole–ENSO relationship. <i>Atmospheric and Oceanic Science Letters</i> , 2021, 14, 100057.	1.3	6
77	The North Pacific Blob acts to increase the predictability of the Atlantic warm pool. <i>Environmental Research Letters</i> , 2021, 16, 064034.	5.2	6
78	Evaluation of the Performance of CMIP5 and CMIP6 Models in Simulating the Victoria Mode–El Niño Relationship. <i>Journal of Climate</i> , 2021, 34, 7625-7644.	3.2	6
79	Evaluation of the Performance of CMIP5 and CMIP6 Models in Simulating the Victoria Mode–El Niño Relationship. <i>Journal of Climate</i> , 2021, 34, 7625-7644.	3.2	6
80	Luminescence, magnetism and structures of 1D 3-pyridin-yl-benzoic lanthanide coordination complexes. <i>Synthetic Metals</i> , 2013, 164, 32-37.	3.9	5
81	Predictability of Ensemble Forecasting Estimated Using the Kullback-Leibler Divergence in the Lorenz Model. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 837-846.	4.3	5
82	The Relationship between Deterministic and Ensemble Mean Forecast Errors Revealed by Global and Local Attractor Radii. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 271-278.	4.3	5
83	Contributions of tropical-extratropical oceans to the prediction skill of ENSO after 2000. <i>Atmospheric and Oceanic Science Letters</i> , 2020, 13, 338-345.	1.3	5
84	Decadal change of January and July persistence of monthly mean 500 hPa geopotential height anomalies. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	4
85	A novel 3D 4-(1H-1,2,4-triazol-1-ylmethyl)benzoate cadmium coordination polymer. <i>Synthetic Metals</i> , 2012, 162, 1894-1897.	3.9	4
86	Re-Examination of the Decadal Change in the Relationship between the East Asian Summer Monsoon and Indian Ocean SST. <i>Atmosphere</i> , 2018, 9, 395.	2.3	4
87	Influence of South Pacific quadrupole on austral winter precipitation over the SPCZ. <i>Environmental Research Letters</i> , 2018, 13, 094024.	5.2	4
88	Estimating the Predictability Limit of Tropical Cyclone Tracks over the Western North Pacific Using Observational Data. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 1491-1504.	4.3	4
89	Nonlinear response of Northern Hemisphere stratospheric polar vortex to the Indo–Pacific warm pool (IPWP) Niño. <i>Scientific Reports</i> , 2019, 9, 13719.	3.3	4
90	Interdecadal changes in potential predictability of the summer monsoon in East Asia and South Asia. <i>Atmospheric Science Letters</i> , 2019, 20, e890.	1.9	4

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91	Could the North Pacific Oscillation Be Modified by the Initiation of the East Asian Winter Monsoon?. <i>Journal of Climate</i> , 2020, 33, 2389-2406.	3.2	4
92	The predictability limit of the amplitude and phase of the Madden-Julian oscillation. <i>Atmospheric Science Letters</i> , 2020, 21, e968.	1.9	4
93	An Estimate of the Relative Contributions of Sea Surface Temperature Variations in Various Regions to Stratospheric Change. <i>Journal of Climate</i> , 2020, 33, 4993-5011.	3.2	4
94	Relationship between the Predictability Limit and Initial Error in Chaotic Systems. , 0, , .		4
95	Predictability Limit of Monsoon Intraseasonal Precipitation: An Implication of Central Indian Ocean Mode. <i>Frontiers in Marine Science</i> , 2022, 8, .	2.5	4
96	Investigating decadal variations of the seasonal predictability limit of sea surface temperature in the tropical Pacific. <i>Climate Dynamics</i> , 0, , 1.	3.8	4
97	A New Technique to Quantify the Local Predictability of Extreme Events: The Backward Nonlinear Local Lyapunov Exponent Method. <i>Frontiers in Environmental Science</i> , 2022, 10, .	3.3	4
98	Long-Term Trend and Decadal Variability of Persistence of Daily 500-mb Geopotential Height Anomalies during Boreal Winter. <i>Monthly Weather Review</i> , 2009, 137, 3519-3534.	1.4	3
99	Efficient sorting design on a novel embedded parallel computing architecture with unique memory access. <i>Computers and Electrical Engineering</i> , 2013, 39, 2100-2111.	4.8	3
100	Abnormal thermal effects on the surface plasmon resonance of Ag nanoparticles on the surface of silicon. <i>Thin Solid Films</i> , 2015, 584, 378-381.	1.8	3
101	Interdecadal change in the lagged relationship between the Victoria mode and ENSO. <i>Atmospheric and Oceanic Science Letters</i> , 2019, 12, 294-301.	1.3	3
102	An Investigation of the Differences between the North American Dipole and North Atlantic Oscillation. <i>Atmosphere</i> , 2019, 10, 58.	2.3	3
103	Joint impact of North Pacific Victoria mode and South Pacific Quadrapole mode on Pacific ITCZ summer precipitation. <i>Climate Dynamics</i> , 2020, 54, 4545-4561.	3.8	3
104	On the connection between AMOC and observed land precipitation in Northern Hemisphere: a comparison of the AMOC indicators. <i>Climate Dynamics</i> , 2021, 56, 651-664.	3.8	3
105	Application of Backward Nonlinear Local Lyapunov Exponent Method to Assessing the Relative Impacts of Initial Condition and Model Errors on Local Backward Predictability. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 1486-1496.	4.3	3
106	Special Pâ€N Junction Photocatalytic NiO/Ag <sub>2</sub> S Nanocomposite Synthesized by Hydrothermal Method. <i>Nanoscience and Nanotechnology Letters</i> , 2015, 7, 387-391.	0.4	3
107	Influence of the North Pacific Victoria Mode on the Spring Persistence Barrier of ENSO. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	3.3	3
108	On the Asymmetry of the Tropical Pacific Thermocline Fluctuation Associated With ENSO Recharge and Discharge. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	3

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109	Baseline predictability of daily east Asian summer monsoon circulation indices. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2017, 53, 243-256.	2.3	2
110	Potential predictability of the MJO during easterly and westerly phases of the QBO. <i>Climate Dynamics</i> , 2021, 57, 717-726.	3.8	2
111	Influence of the North Pacific Victoria Mode on the Madden-Julian Oscillation. <i>Frontiers in Earth Science</i> , 0, 8, .	1.8	2
112	Progress in the study of nonlinear atmospheric dynamics and predictability of weather and climate in China (2007-2011). <i>Advances in Atmospheric Sciences</i> , 2012, 29, 1048-1062.	4.3	1
113	The Predictability Limit of Ocean Mesoscale Eddy Tracks in the Kuroshio Extension Region. <i>Frontiers in Marine Science</i> , 2021, 8, .	2.5	1
114	Fabrication of acid-controllable TiO <sub>2</sub> microstructures: Morphology and photocatalytic activity analysis. , 2013, , .		0
115	Optimal Evolutionary Window for the Nonlinear Local Lyapunov Exponent. <i>Scientific Online Letters on the Atmosphere</i> , 2017, 13, 125-129.	1.4	0
116	Influence of the North American Dipole on ENSO onset as simulated by a coupled ocean-Atmosphere model. <i>Atmospheric and Oceanic Science Letters</i> , 2021, 14, 100058.	1.3	0
117	Preceding winter Okhotsk Sea ice as a precursor to the following winter extreme precipitation in South China. <i>Atmospheric Science Letters</i> , 0, , .	1.9	0