Jing-Jia Luo

List of Publications by Citations

142 papers	9,299 citations	48 h-index	96 g-index
153 ext. papers	10,729 ext. citations	6.1 avg, IF	6.24 L-index

#	Paper	IF	Citations
142	Ocean Circulation and Tropical Variability in the Coupled Model ECHAM5/MPI-OM. *Journal of Climate*, **2006**, 19, 3952-3972	4.4	733
141	High Resolution Model Intercomparison Project (HighResMIP□v1.0) for CMIP6. *Geoscientific Model Development*, **2016**, 9, 4185-4208	6.3	396
140	El Ni□-Southern Oscillation complexity. *Nature*, **2018**, 559, 535-545	50.4	389
139	Current status of ENSO prediction skill in coupled ocean□tmosphere models. *Climate Dynamics*, **2008**, 31, 647-664	4.2	338
138	How may tropical cyclones change in a warmer climate?. *Tellus, Series A: Dynamic Meteorology and Oceanography*, **2007**, 59, 539-561	2	314
137	Glacial-interglacial Indian summer monsoon dynamics. *Science*, **2011**, 333, 719-23	33.3	304
136	Advance and prospectus of seasonal prediction: assessment of the APCC/CliPAS 14-model ensemble retrospective seasonal prediction (1980□2004). *Climate Dynamics*, **2009**, 33, 93-117	4.2	302
135	Paramount Impact of the Indian Ocean Dipole on the East African Short Rains: A CGCM Study. *Journal of Climate*, **2005**, 18, 4514-4530	4.4	300
134	Influence of the state of the Indian Ocean Dipole on the following year□ El Ni□. *Nature Geoscience*, **2010**, 3, 168-172	18.3	276
133	Indian Ocean warming modulates Pacific climate change. *Proceedings of the National Academy of Sciences of the United States of America*, **2012**, 109, 18701-6	11.5	268
132	Pantropical climate interactions. *Science*, **2019**, 363,	33.3	250
131	Deep learning for multi-year ENSO forecasts. *Nature*, **2019**, 573, 568-572	50.4	232
130	A CGCM Study on the Interaction between IOD and ENSO. *Journal of Climate*, **2006**, 19, 1688-1705	4.4	229
129	Interaction between El Ni□ and Extreme Indian Ocean Dipole. *Journal of Climate*, **2010**, 23, 726-742	4.4	215
128	Seasonal Climate Predictability in a Coupled OAGCM Using a Different Approach for Ensemble Forecasts. *Journal of Climate*, **2005**, 18, 4474-4497	4.4	211
127	Extended ENSO Predictions Using a Fully Coupled Ocean□tmosphere Model. *Journal of Climate*, **2008**, 21, 84-93	4.4	202
126	Impacts of El Ni□ Southern Oscillation on the global yields of major crops. *Nature Communications*, **2014**, 5, 3712	17.4	190

125	The Role of the Western Arabian Sea Upwelling in Indian Monsoon Rainfall Variability. *Journal of Climate*, **2008**, 21, 5603-5623	4.4	182
124	Coupled Ocean-Atmosphere Variability in the Tropical Indian Ocean. *Geophysical Monograph Series*, **2013**, 189-211	1.1	181
123	Reducing Climatology Bias in an Ocean□Atmosphere CGCM with Improved Coupling Physics. *Journal of Climate*, **2005**, 18, 2344-2360	4.4	174
122	Experimental Forecasts of the Indian Ocean Dipole Using a Coupled OAGCM. *Journal of Climate*, **2007**, 20, 2178-2190	4.4	142
121	State of the Climate in 2013. *Bulletin of the American Meteorological Society*, **2014**, 95, S1-S279	6.1	128
120	How are seasonal prediction skills related to models□performance on mean state and annual cycle?. *Climate Dynamics*, **2010**, 35, 267-283	4.2	122
119	Prediction of seasonal climate-induced variations in global food production. *Nature Climate Change*, **2013**, 3, 904-908	21.4	115
118	How accurately do coupled climate models predict the leading modes of Asian-Australian monsoon interannual variability?. *Climate Dynamics*, **2008**, 30, 605-619	4.2	115
117	South Pacific origin of the decadal ENSO-like variation as simulated by a coupled GCM. *Geophysical Research Letters*, **2003**, 30,	4.9	113
116	Successful prediction of the consecutive IOD in 2006 and 2007. *Geophysical Research Letters*, **2008**, 35,	4.9	112
115	Long-term El Ni□-Southern Oscillation (ENSO)-like variation with special emphasis on the South Pacific. *Journal of Geophysical Research*, **2001**, 106, 22211-22227		110
114	State of the Climate in 2012. *Bulletin of the American Meteorological Society*, **2013**, 94, S1-S258	6.1	109
113	Skilful multi-year predictions of tropical trans-basin climate variability. *Nature Communications*, **2015**, 6, 6869	17.4	102
112	Role of the ENSO□Indian Ocean coupling on ENSO variability in a coupled GCM. *Geophysical Research Letters*, **2006**, 33,	4.9	99
111	Predictability of Northwest Pacific climate during summer and the role of the tropical Indian Ocean. *Climate Dynamics*, **2011**, 36, 607-621	4.2	90
110	Projection of future precipitation change over China with a high-resolution global atmospheric model. *Advances in Atmospheric Sciences*, **2011**, 28, 464-476	2.9	90
109	Impact of intra-daily SST variability on ENSO characteristics in a coupled model. *Climate Dynamics*, **2012**, 39, 681-707	4.2	88
108	Decadal Modulations of the Indian Ocean Dipole in the SINTEX-F1 Coupled GCM. *Journal of Climate*, **2007**, 20, 2881-2894	4.4	86

107	Increase of global monsoon area and precipitation under global warming: A robust signal?. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	83
106	Impact of barrier layer on winter-spring variability of the southeastern Arabian Sea. *Geophysical Research Letters*, **2005**, 32, n/a-n/a	4.9	82
105	How Predictable is the Indian Ocean Dipole?. *Monthly Weather Review*, **2012**, 140, 3867-3884	2.4	80
104	Influence of Indian Ocean Dipole and Pacific recharge on following years' El Niño: interdecadal robustness. *Climate Dynamics*, **2014**, 42, 291-310	4.2	79
103	Global warming shifts Pacific tropical cyclone location. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	65
102	Assessment of the APCC coupled MME suite in predicting the distinctive climate impacts of two flavors of ENSO during boreal winter. *Climate Dynamics*, **2012**, 39, 475-493	4.2	61
101	Unusual IOD event of 2007. *Geophysical Research Letters*, **2008**, 35,	4.9	60
100	State of the Climate in 2008. *Bulletin of the American Meteorological Society*, **2009**, 90, S1-S196	6.1	57
99	May common model biases reduce CMIP5's ability to simulate the recent Pacific La Niña-like cooling?. *Climate Dynamics*, **2018**, 50, 1335-1351	4.2	56
98	Generation and termination of Indian Ocean dipole events in 2003, 2006 and 2007. *Climate Dynamics*, **2009**, 33, 751-767	4.2	56
97	The Influence of Tropical Indian Ocean SST on the Indian Summer Monsoon. *Journal of Climate*, **2007**, 20, 3083-3105	4.4	56
96	ACCESS-S1 The new Bureau of Meteorology multi-week to seasonal prediction system. *Journal of Southern Hemisphere Earth Systems Science*, **2017**, 67, 132-159	2.1	53
95	Inter-basin sources for two-year predictability of the multi-year La Niña event in 2010-2012. *Scientific Reports*, **2017**, 7, 2276	4.9	49
94	Distinct global warming rates tied to multiple ocean surface temperature changes. *Nature Climate Change*, **2017**, 7, 486-491	21.4	47
93	Subtropical Dipole Modes Simulated in a Coupled General Circulation Model. *Journal of Climate*, **2012**, 25, 4029-4047	4.4	43
92	Projected effects of declining aerosols in RCP4.5: unmasking global warming?. *Atmospheric Chemistry and Physics*, **2013**, 13, 10883-10905	6.8	41
91	The role of the intra-daily SST variability in the Indian monsoon variability and monsoon-ENSO–IOD relationships in a global coupled model. *Climate Dynamics*, **2012**, 39, 729-754	4.2	39
90	Robust contribution of decadal anomalies to the frequency of central-Pacific El Niño. *Scientific Reports*, **2016**, 6, 38540	4.9	37

89	Relative role of El Niño and IOD forcing on the southern tropical Indian Ocean Rossby waves. *Journal of Geophysical Research: Oceans*, **2014**, 119, 5105-5122	3.3	34
88	Impact of vertical mixing induced by small vertical scale structures above and within the equatorial thermocline on the tropical Pacific in a CGCM. *Climate Dynamics*, **2013**, 41, 443-453	4.2	34
87	Declining Aerosols in CMIP5 Projections: Effects on Atmospheric Temperature Structure and Midlatitude Jets. *Journal of Climate*, **2014**, 27, 6960-6977	4.4	33
86	Tropical Indian Ocean variability revealed by self-organizing maps. *Climate Dynamics*, **2008**, 31, 333-343	4.2	33
85	Dynamics and Predictability of El Niño–Southern Oscillation: An Australian Perspective on Progress and Challenges. *Bulletin of the American Meteorological Society*, **2019**, 100, 403-420	6.1	31
84	Asymmetry of the Indian Ocean Dipole. Part II: Model Diagnosis*. *Journal of Climate*, **2008**, 21, 4849-4858	4.4	30
83	CURRENT STATUS OF INTRASEASONAL–SEASONAL-TO-INTERANNUAL PREDICTION OF THE INDO-PACIFIC CLIMATE. *World Scientific Series on Asia-Pacific Weather and Climate*, **2016**, 63-107		30
82	MJO change with A1B global warming estimated by the 40-km ECHAM5. *Climate Dynamics*, **2013**, 41, 1009-1023	4.2	27
81	Role of tropical Indian Ocean air–sea interactions in modulating Indian summer monsoon in a coupled model. *Atmospheric Science Letters*, **2015**, 16, 170-176	2.4	27
80	Impact of Global Ocean Surface Warming on Seasonal-to-Interannual Climate Prediction. *Journal of Climate*, **2011**, 24, 1626-1646	4.4	27
79	Termination of Indian Ocean Dipole Events in a Coupled General Circulation Model. *Journal of Climate*, **2007**, 20, 3018-3035	4.4	27
78	Atmospheric Horizontal Resolution Affects Tropical Climate Variability in Coupled Models. *Journal of Climate*, **2008**, 21, 730-750	4.4	26
77	Poleward propagation of boreal summer intraseasonal oscillations in a coupled model: role of internal processes. *Climate Dynamics*, **2011**, 37, 851-867	4.2	25
76	Role of vertical mixing originating from small vertical scale structures above and within the equatorial thermocline in an OGCM. *Ocean Modelling*, **2012**, 57-58, 29-42	3	24
75	A statistical analysis on the contribution of El Niño–Southern Oscillation to the rainfall and temperature over Bangladesh. *Meteorology and Atmospheric Physics*, **2021**, 133, 55-68	2	24
74	Decadal climate variability in the tropical Pacific: Characteristics, causes, predictability, and prospects. *Science*, **2021**, 374, eaay9165	33.3	24
73	Predictability of the subtropical dipole modes in a coupled ocean–atmosphere model. *Climate Dynamics*, **2014**, 42, 1291-1308	4.2	23
72	Influences of Tropical Indian and Pacific Oceans on the Interannual Variations of Precipitation in the Early and Late Rainy Seasons in South China. *Journal of Climate*, **2019**, 32, 3681-3694	4.4	22

71	Possible role of warm SST bias in the simulation of boreal summer monsoon in SINTEX-F2 coupled model. *Climate Dynamics*, **2012**, 38, 1561-1576	4.2	22
70	Probabilistic prediction of Indian summer monsoon rainfall using global climate models. *Theoretical and Applied Climatology*, **2012**, 107, 441-450	3	21
69	Dynamical Downscaling of Austral Summer Climate Forecasts over Southern Africa Using a Regional Coupled Model. *Journal of Climate*, **2013**, 26, 6015-6032	4.4	21
68	Effects of air–sea coupling on the boreal summer intraseasonal oscillations over the tropical Indian Ocean. *Climate Dynamics*, **2011**, 37, 2303-2322	4.2	19
67	Impacts of Tropical Indian and Atlantic Ocean Warming on the Occurrence of the 2017/2018 La Niña. *Geophysical Research Letters*, **2019**, 46, 3435-3445	4.9	17
66	Longitudinal biases in the Seychelles Dome simulated by 35 ocean-atmosphere coupled general circulation models. *Journal of Geophysical Research: Oceans*, **2013**, 118, 831-846	3.3	17
65	Annual ENSO simulated in a coupled ocean–atmosphere model. *Dynamics of Atmospheres and Oceans*, **2005**, 39, 41-60	1.9	17
64	Influence of Indian Ocean Dipole on boreal summer intraseasonal oscillations in a coupled general circulation model. *Journal of Geophysical Research*, **2009**, 114,		16
63	Ocean Impacts on Australian Interannual to Decadal Precipitation Variability. *Climate*, **2018**, 6, 61	3.1	16
62	A Review of Research on Tropical Air-Sea Interaction, ENSO Dynamics, and ENSO Prediction in China. *Journal of Meteorological Research*, **2020**, 34, 43-62	2.3	15
61	Seasonal Prediction of Distinct Climate Anomalies in Summer 2010 over the Tropical Indian Ocean and South Asia. *Journal of the Meteorological Society of Japan*, **2014**, 92, 1-16	2.8	15
60	Seasonal forecasts of the SINTEX-F coupled model applied to maize yield and streamflow estimates over north-eastern South Africa. *Meteorological Applications*, **2014**, 21, 733-742	2.1	15
59	Spatiotemporal variations of annual shallow soil temperature on the Tibetan Plateau during 1983–2013. *Climate Dynamics*, **2018**, 51, 2209-2227	4.2	15
58	Using large-scale climate drivers to forecast meteorological drought condition in growing season across the Australian wheatbelt. *Science of the Total Environment*, **2020**, 724, 138162	10.2	14
57	Seasonal forecasting of tropical cyclones in the North Indian Ocean region: the role of El Niño-Southern Oscillation. *Climate Dynamics*, **2020**, 54, 1571-1589	4.2	14
56	A Wavelet-Based Technique for Identifying, Labeling, and Tracking of Ocean Eddies. *Journal of Atmospheric and Oceanic Technology*, **2002**, 19, 381-390	2	13
55	Impact of Indian Ocean Dipole on high-frequency atmospheric variability over the Indian Ocean. *Atmospheric Research*, **2009**, 94, 134-139	5.4	12
54	Four Decadal Ocean-Atmosphere Modes in the North Pacific Revealed by Various Analysis Methods. *Journal of Oceanography*, **2002**, 58, 861-876	1.9	12

53	Direct impacts of different types of El Niño in developing summer on East Asian precipitation. *Climate Dynamics*, **2020**, 55, 1087-1104	4.2	10
52	Impacts of Different Types of ENSO on the Interannual Seesaw between the Somali and the Maritime Continent Cross-Equatorial Flows. *Journal of Climate*, **2017**, 30, 2621-2638	4.4	9
51	Influence of the Maritime Continent on the Boreal Summer Intraseasonal Oscillation. *Journal of the Meteorological Society of Japan*, **2010**, 88, 395-407	2.8	9
50	Discovery of Chile Niño/Niña. *Geophysical Research Letters*, **2020**, 47, no	4.9	8
49	Markov Chain Monte Carlo simulation and regression approach guided by El Niño Southern Oscillation to model the tropical cyclone occurrence over the Bay of Bengal. *Climate Dynamics*, **2021**, 56, 2693-2713	4.2	8
48	Toward Understanding the Extreme Floods over Yangtze River Valley in June July 2020: Role of Tropical Oceans. *Advances in Atmospheric Sciences*, **2021**, 38, 2023	2.9	8
47	An analytical study of hindcasts from general circulation models for Indian summer monsoon rainfall. *Meteorological Applications*, **2014**, 21, 695-707	2.1	7
46	Climate science: ocean dynamics not required?. *Nature*, **2011**, 477, 544-6	50.4	7
45	ENSO Prediction. *Geophysical Monograph Series*, **2020**, 227-246	1.1	7
44	Seasonal movement prediction of tropical cyclone over the North Indian Ocean by using atmospheric climate variables in statistical models. *Atmospheric Research*, **2020**, 245, 105089	5.4	6
43	Synoptic Features Responsible for Heat Waves in Central Africa, a Region with Strong Multidecadal Trends. *Journal of Climate*, **2019**, 32, 7951-7970	4.4	5
42	A Model Study on the 1988 89 Warming Event in the Northern North Pacific. *Journal of Physical Oceanography*, **2003**, 33, 1815-1828	2.4	5
41	Internal Variability-Generated Uncertainty in East Asian Climate Projections Estimated with 40 CCSM3 Ensembles. *PLoS ONE*, **2016**, 11, e0149968	3.7	5
40	Distinctive Evolutions of Eurasian Warming and Extreme Events Before and After Global Warming Would Stabilize at 1.5 C. *Earth s Future*, **2019**, 7, 151-161	7.9	4
39	Over-projected Pacific warming and extreme El Niño frequency due to CMIP5 common biases. *National Science Review*, **2021**, 8, nwab056	10.8	4
38	Impact assessment of Indian Ocean Dipole on the North Indian Ocean tropical cyclone prediction using a Statistical model. *Climate Dynamics*,1	4.2	4
37	Basin Interactions and Predictability **2020**, 258-292		3
36	Comparison of GloSea5 and POAMA2.4 Hindcasts 1996-2009: Ocean Focus. *Bureau Research Report*,		3

35	Future changes in the frequency of extreme droughts over China based on two large ensemble simulations. *Journal of Climate*, **2021**, 1	4.4	3
34	Air–sea interaction in tropical Pacific: The dynamics of El Niño/Southern Oscillation **2021**, 61-92		3
33	Tropical African wildfire aerosols trigger teleconnections over mid-to-high latitudes of Northern Hemisphere in January. *Environmental Research Letters*, **2021**, 16, 034025	6.2	3
32	Multimodel Prediction Skills of the Somali and Maritime Continent Cross-Equatorial Flows. *Journal of Climate*, **2018**, 31, 2445-2464	4.4	3
31	Predicting climate anomalies: A real challenge. *Atmospheric and Oceanic Science Letters*, **2021**, 15, 100115	1.4	3
30	Assessing the role of the ocean–atmosphere coupling frequency in the western Maritime Continent rainfall. *Climate Dynamics*, **2020**, 54, 4935-4952	4.2	2
29	Spatial Modelling of Bacterial Diversity over the Selected Regions in Bangladesh by Next-Generation Sequencing: Role of Water Temperature. *Applied Sciences (Switzerland)*, **2020**, 10, 2537	2.6	2
28	A see-saw variability in tropical cyclone genesis between the western North Pacific and the North Atlantic shaped by Atlantic multidecadal variability. *Journal of Climate*, **2022**, 1-37	4.4	2
27	Seasonally Stratified Analysis of Simulated ENSO Thermodynamics. *Journal of Climate*, **2007**, 20, 4615-4627	4.4	2
26	Corrigendum to: ACCESS-S1: The new Bureau of Meteorology multi-week to seasonal prediction system. *Journal of Southern Hemisphere Earth Systems Science*, **2020**, 70, 393	2.1	2
25	Statistical Approach to Observe the Atmospheric Density Variations Using Swarm Satellite Data. *Atmosphere*, **2020**, 11, 897	2.7	2
24	Robust regional differences in marine heatwaves between transient and stabilization responses at 1.5 °C global warming. *Weather and Climate Extremes*, **2021**, 32, 100316	6	2
23	An evaluation of the Arctic clouds and surface radiative fluxes in CMIP6 models. *Acta Oceanologica Sinica*, **2021**, 40, 85-102	1	2
22	Seasonal Prediction of Summer Precipitation in the Middle and Lower Reaches of the Yangtze River Valley: Comparison of Machine Learning and Climate Model Predictions. *Water (Switzerland)*, **2021**, 13, 3294	3	1
21	Pacific Warming Pattern Diversity Modulated by Indo-Pacific Sea Surface Temperature Gradient. *Geophysical Research Letters*, **2021**, 48, e2021GL095516	4.9	1
20	Modeling of tropical cyclone activity over the North Indian Ocean using generalised additive model and machine learning techniques: role of Boreal summer intraseasonal oscillation. *Natural Hazards*, **2022**, 111, 1801	3	1
19	Influence of El Niño–Southern Oscillation on the long-term record of floods over Bangladesh. *Theoretical and Applied Climatology*,1	3	1
18	Predictability of the Chile Niño/Niña. *Geophysical Research Letters*, **2021**, 48, e2021GL095309	4.9	1

17	Atlantic Niño/Niña Prediction Skills in NMME Models. *Atmosphere*, **2021**, 12, 803	2.7	1
16	CHARACTERIZING THE RELIABILITY OF GLOBAL CROP PREDICTION BASED ON SEASONAL CLIMATE FORECASTS. *World Scientific Series on Asia-Pacific Weather and Climate*, **2016**, 281-304		1
15	Effect of circulation variation associated with East Asian jet on spring rainfall over North China and Yangtze-Huaihe River Valley. *Atmospheric Research*, **2021**, 258, 105611	5.4	1
14	Forecasts of MJO during DYNAMO in a coupled tropical channel model, Part I: impact of parameterization schemes. *International Journal of Climatology*,	3.5	1
13	Seasonal Prediction of Summer Precipitation over East Africa Using NUIST-CFS1.0. *Advances in Atmospheric Sciences*, **2022**, 39, 355-372	2.9	0
12	Effects of convective available potential energy, temperature and humidity on the variability of thunderstorm frequency over Bangladesh. *Theoretical and Applied Climatology*,1	3	0
11	Prediction of summer extreme hot days in China using the SINTEX-F2. *International Journal of Climatology*, **2021**, 41, 4966-4976	3.5	0
10	Prediction of Arctic Temperature and Sea Ice Using a High-Resolution Coupled Model. *Journal of Climate*, **2021**, 34, 2905-2922	4.4	0
9	Dynamics of East Asian Spring Rainband and Spring–Autumn Contrast: Environmental Forcings of Large-Scale Circulation. *Journal of Climate*, **2021**, 34, 3523-3541	4.4	0
8	Assessing the role of air-sea coupling in predicting Madden-Julian Oscillation with an atmosphere-ocean coupled model. *Journal of Climate*, **2021**, 1-58	4.4	0
7	Distinct Evolution of the SST Anomalies in the Far Eastern Pacific between the 1997/98 and 2015/16 Extreme El Niños. *Advances in Atmospheric Sciences*, **2022**, 39, 927-942	2.9	0
6	Seasonal Predictions of Summer Precipitation in the Middle-lower Reaches of the Yangtze River with Global and Regional Models Based on NUIST-CFS1.0.. *Advances in Atmospheric Sciences*, **2022**, 1-18	2.9	0
5	Evaluating the Eastward Propagation of the MJO in CMIP5 and CMIP6 Models Based on a Variety of Diagnostics. *Journal of Climate*, **2022**, 35, 1719-1743	4.4	0
4	A spatial model for predicting North Indian Ocean tropical cyclone intensity: Role of sea surface temperature and tropical cyclone heat potential. *Weather and Climate Extremes*, **2022**, 36, 100431	6	0
3	On the Relationship Between the Stratospheric Quasi-Biennial Oscillation and Summer Precipitation in Northern China. *Geophysical Research Letters*, **2022**, 49,	4.9	0
2	Impacts of aerosols and climate modes on tropical cyclone frequency over the North Indian Ocean: a statistical link approach. *Journal of Climate*, **2022**, 1-46	4.4	
1	Forecasts of MJO during DYNAMO in a Coupled Tropical Channel Model: Impact of Planetary Boundary Layer Schemes. *Atmosphere*, **2022**, 13, 666	2.7	