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List of Publications by Citations

138 papers	7,820 citations	41 h-index	87 g-index
163 ext. papers	8,867 ext. citations	5.7 avg, IF	6.21 L-index

#	Paper	IF	Citations
138	Two Types of El Niño Events: Cold Tongue El Niño and Warm Pool El Niño. *Journal of Climate*, **2009**, 22, 1499-1515	4.4	963
137	The impact of global warming on the tropical Pacific Ocean and El Niño. *Nature Geoscience*, **2010**, 3, 391-397	18.3	828
136	ENSO and greenhouse warming. *Nature Climate Change*, **2015**, 5, 849-859	21.4	441
135	El Niño-Southern Oscillation complexity. *Nature*, **2018**, 559, 535-545	50.4	389
134	Nonlinearity and Asymmetry of ENSO*. *Journal of Climate*, **2004**, 17, 2399-2412	4.4	338
133	Interdecadal Change of the Structure of the ENSO Mode and Its Impact on the ENSO Frequency*. *Journal of Climate*, **2000**, 13, 2044-2055	4.4	324
132	The Influence of a Weakening of the Atlantic Meridional Overturning Circulation on ENSO. *Journal of Climate*, **2007**, 20, 4899-4919	4.4	251
131	Strong El Niño events and nonlinear dynamical heating. *Geophysical Research Letters*, **2003**, 30, 20-1	4.9	211
130	ENSO Atmospheric Teleconnections and Their Response to Greenhouse Gas Forcing. *Reviews of Geophysics*, **2018**, 56, 185-206	23.1	207
129	Warm Pool and Cold Tongue El Niño Events as Simulated by the GFDL 2.1 Coupled GCM. *Journal of Climate*, **2010**, 23, 1226-1239	4.4	170
128	Thermocline and Zonal Advective Feedbacks Within the Equatorial Ocean Recharge Oscillator Model for ENSO. *Geophysical Research Letters*, **1999**, 26, 2989-2992	4.9	153
127	ENSO Suppression due to Weakening of the North Atlantic Thermohaline Circulation*. *Journal of Climate*, **2005**, 18, 3122-3139	4.4	141
126	Collective Role of Thermocline and Zonal Advective Feedbacks in the ENSO Mode*. *Journal of Climate*, **2001**, 14, 3421-3432	4.4	141
125	Linking Emergence of the Central Pacific El Niño to the Atlantic Multidecadal Oscillation. *Journal of Climate*, **2015**, 28, 651-662	4.4	125
124	Decadal change in relationship between east Asian and WNP summer monsoons. *Geophysical Research Letters*, **2005**, 32,	4.9	122
123	Why the properties of El Niño changed during the late 1970s. *Geophysical Research Letters*, **2001**, 28, 3709-3712	4.9	118
122	Response of El Niño sea surface temperature variability to greenhouse warming. *Nature Climate Change*, **2014**, 4, 786-790	21.4	116

121	The Effect of Orbital Forcing on the Mean Climate and Variability of the Tropical Pacific. *Journal of Climate*, **2007**, 20, 4147-4159	4.4	99
120	Role of the ENSO–Indian Ocean coupling on ENSO variability in a coupled GCM. *Geophysical Research Letters*, **2006**, 33,	4.9	99
119	Late-twentieth-century emergence of the El Niño propagation asymmetry and future projections. *Nature*, **2013**, 504, 126-30	50.4	97
118	Recent progress on two types of El Niño: Observations, dynamics, and future changes. *Asia-Pacific Journal of Atmospheric Sciences*, **2014**, 50, 69-81	2.1	96
117	Interannual Variations of the Tropical Ocean Instability Wave and ENSO. *Journal of Climate*, **2008**, 21, 3680-3686	4.4	96
116	The role of mean state on changes in El Niño flavor. *Climate Dynamics*, **2011**, 37, 1205-1215	4.2	89
115	Mechanisms of Locking of the El Niño and La Niña Mature Phases to Boreal Winter*. *Journal of Climate*, **2001**, 14, 2164-2176	4.4	82
114	An eigen analysis of the interdecadal changes in the structure and frequency of ENSO mode. *Geophysical Research Letters*, **2000**, 27, 2573-2576	4.9	78
113	A review of interdecadal changes in the nonlinearity of the El Niño-Southern Oscillation. *Theoretical and Applied Climatology*, **2009**, 97, 29-40	3	77
112	El Niño–La Niña Asymmetry in the Coupled Model Intercomparison Project Simulations*. *Journal of Climate*, **2005**, 18, 2617-2627	4.4	74
111	Decadal amplitude modulation of two types of ENSO and its relationship with the mean state. *Climate Dynamics*, **2012**, 38, 2631-2644	4.2	68
110	Successive Modulation of ENSO to the Future Greenhouse Warming. *Journal of Climate*, **2008**, 21, 3-21	4.4	65
109	A Systematic Approximation of the SST Anomaly Equation for ENSO.. *Journal of the Meteorological Society of Japan*, **2001**, 79, 1-10	2.8	64
108	A method for detecting season-dependent modes of climate variability: S-EOF analysis. *Geophysical Research Letters*, **2005**, 32,	4.9	61
107	Changes in El Niño and La Niña teleconnections over North Pacific–America in the global warming simulations. *Theoretical and Applied Climatology*, **2010**, 100, 275-282	3	60
106	Changes in weather and climate extremes over Korea and possible causes: A review. *Asia-Pacific Journal of Atmospheric Sciences*, **2015**, 51, 103-121	2.1	54
105	Interdecadal changes in the El Nino–La Nina asymmetry. *Geophysical Research Letters*, **2004**, 31,	4.9	53
104	Preconditions for El Niño and La Niña onsets and their relation to the Indian Ocean. *Geophysical Research Letters*, **2005**, 32,	4.9	51

103	ENSO and East Asian winter monsoon relationship modulation associated with the anomalous northwest Pacific anticyclone. *Climate Dynamics*, **2017**, 49, 1157-1179	4.2	50
102	Interactive Feedback between the Tropical Pacific Decadal Oscillation and ENSO in a Coupled General Circulation Model. *Journal of Climate*, **2009**, 22, 6597-6611	4.4	49
101	Symmetric and antisymmetric mass exchanges between the equatorial and off-equatorial Pacific associated with ENSO. *Journal of Geophysical Research*, **2003**, 108,		48
100	The Role of Zonal Advection Feedback in Phase Transition and Growth of ENSO in the Cane-Zebiak Model. *Journal of the Meteorological Society of Japan*, **1999**, 77, 1151-1160	2.8	45
99	Mid-Holocene tropical Pacific climate state, annual cycle, and ENSO in PMIP2 and PMIP3. *Climate Dynamics*, **2014**, 43, 957-970	4.2	43
98	Feedback processes responsible for El Niño-La Niña amplitude asymmetry. *Geophysical Research Letters*, **2015**, 42, 5556-5563	4.9	41
97	A Nonlinear Analysis of the ENSO Cycle and Its Interdecadal Changes*. *Journal of Climate*, **2005**, 18, 3229-3239	4.4	39
96	Recent and future sea surface temperature trends in tropical pacific warm pool and cold tongue regions. *Climate Dynamics*, **2012**, 39, 1373-1383	4.2	38
95	The Influence of ENSO on the Generation of Decadal Variability in the North Pacific*. *Journal of Climate*, **2007**, 20, 667-680	4.4	34
94	Modeling evidence for enhanced El Niño-Southern Oscillation amplitude during the Last Glacial Maximum. *Paleoceanography*, **2004**, 19, n/a-n/a		31
93	Role of nonlinear ocean dynamic response to wind on the asymmetrical transition of El Niño and La Niña. *Geophysical Research Letters*, **2017**, 44, 393-400	4.9	30
92	A near-annual coupled ocean-atmosphere mode in the equatorial Pacific ocean. *Geophysical Research Letters*, **2003**, 30,	4.9	30
91	Conditional Maximum Covariance Analysis and Its Application to the Tropical Indian Ocean SST and Surface Wind Stress Anomalies*. *Journal of Climate*, **2003**, 16, 2932-2938	4.4	29
90	Altered atmospheric responses to eastern Pacific and central Pacific El Niños over the North Atlantic region due to stratospheric interference. *Climate Dynamics*, **2014**, 42, 159-170	4.2	28
89	The Forced and Intrinsic Low-Frequency Modes in the North Pacific*. *Journal of Climate*, **2005**, 18, 876-885	4.4	27
88	The Inverse Effect of Annual-Mean State and Annual-Cycle Changes on ENSO. *Journal of Climate*, **2010**, 23, 1095-1110	4.4	26
87	A Near-Annual Pacific Ocean Basin Mode. *Journal of Climate*, **2004**, 17, 2478-2488	4.4	26
86	A dynamic link between the basin-scale and zonal modes in the Tropical Indian Ocean. *Theoretical and Applied Climatology*, **2004**, 78, 203	3	25

85	Kelvin and Rossby Wave Contributions to the SST Oscillation of ENSO. *Journal of Climate*, **1998**, 11, 2461-2469	4.4	25
84	A physical mechanism of the precipitation dipole in the western United States based on PDO-storm track relationship. *Geophysical Research Letters*, **2014**, 41, 4719-4726	4.9	23
83	The impact of tropical western Pacific convection on the North Pacific atmospheric circulation during the boreal winter. *Climate Dynamics*, **2014**, 43, 2227-2238	4.2	23
82	ENSO-Like and ENSO-Induced Tropical Pacific Decadal Variability in CGCMs. *Journal of Climate*, **2013**, 26, 1485-1501	4.4	23
81	A Further Investigation of the Recharge Oscillator Paradigm for ENSO Using a Simple Coupled Model with the Zonal Mean and Eddy Separated. *Journal of Climate*, **2000**, 13, 1987-1993	4.4	23
80	On the subarctic North Atlantic cooling due to global warming. *Theoretical and Applied Climatology*, **2013**, 114, 9-19	3	22
79	Atmospheric Responses of Gill-Type and Lindzen□Nigam Models to Global Warming. *Journal of Climate*, **2011**, 24, 6165-6173	4.4	22
78	Interaction between Near-Annual and ENSO Modes in a CGCM Simulation: Role of the Equatorial Background Mean State. *Journal of Climate*, **2007**, 20, 1035-1052	4.4	22
77	Changes in the leading ENSO modes associated with the late 1970s climate shift: Role of surface zonal current. *Geophysical Research Letters*, **2006**, 33,	4.9	21
76	Inter-decadal change in El Niño-Southern Oscillation examined with Bjerknes stability index analysis. *Climate Dynamics*, **2016**, 47, 967-979	4.2	20
75	Vertical structure variability and equatorial waves during central Pacific and eastern Pacific El Niños in a coupled general circulation model. *Climate Dynamics*, **2012**, 38, 2275-2289	4.2	19
74	Why the twenty-first century tropical Pacific trend pattern cannot significantly influence ENSO amplitude?. *Climate Dynamics*, **2015**, 44, 133-146	4.2	18
73	A linkage between the North Atlantic Oscillation and its downstream development due to the existence of a blocking ridge. *Journal of Geophysical Research*, **2011**, 116,		18
72	ENSO Feedbacks and Associated Time Scales of Variability in a Multimodel Ensemble. *Journal of Climate*, **2010**, 23, 3181-3204	4.4	18
71	Low-Frequency Variability of Temperature in the Vicinity of the Equatorial Pacific Thermocline in SODA: Role of Equatorial Wave Dynamics and ENSO Asymmetry. *Journal of Climate*, **2009**, 22, 5783-5795	4.4	18
70	ENSO Transition Asymmetry: Internal and External Causes and Intermodel Diversity. *Geophysical Research Letters*, **2018**, 45, 5095-5104	4.9	18
69	A global-scale multidecadal variability driven by Atlantic multidecadal oscillation. *National Science Review*, **2020**, 7, 1190-1197	10.8	17
68	Projected Heat Wave Characteristics over the Korean Peninsula During the Twenty-First Century. *Asia-Pacific Journal of Atmospheric Sciences*, **2018**, 54, 53-61	2.1	16

67	North Atlantic observations sharpen meridional overturning projections. *Climate Dynamics*, **2018**, 50, 4171-4188	4.2	16
66	Role of tropical atlantic SST variability as a modulator of El Niño teleconnections. *Asia-Pacific Journal of Atmospheric Sciences*, **2014**, 50, 247-261	2.1	16
65	Quantitative assessment of the climate components driving the pacific decadal oscillation in climate models. *Theoretical and Applied Climatology*, **2013**, 112, 431-445	3	16
64	Comparison of past and future simulations of ENSO in CMIP5/PMIP3 and CMIP6/PMIP4 models. *Climate of the Past*, **2020**, 16, 1777-1805	3.9	16
63	Linear solutions for the frequency and amplitude modulation of ENSO by the annual cycle. *Tellus, Series A: Dynamic Meteorology and Oceanography*, **2011**, 63, 238-243	2	15
62	Seasonal locking of the ENSO asymmetry and its influence on the seasonal cycle of the tropical eastern Pacific sea surface temperature. *Atmospheric Research*, **2009**, 94, 3-9	5.4	15
61	Inverse relationship between the equatorial eastern Pacific annual-cycle and ENSO amplitudes in a coupled general circulation model. *Climate Dynamics*, **2013**, 40, 663-675	4.2	14
60	Sensitivity of ENSO to Stratification in a RechargeDischarge Conceptual Model. *Journal of Climate*, **2011**, 24, 4332-4349	4.4	13
59	Understanding ENSO Regime Behavior upon an Increase in the Warm-Pool Temperature Using a Simple ENSO Model. *Journal of Climate*, **2011**, 24, 1438-1450	4.4	13
58	Influence of Recent Stratification Changes on ENSO Stability in a Conceptual Model of the Equatorial Pacific. *Journal of Climate*, **2013**, 26, 4790-4802	4.4	12
57	Interannual variability of western North Pacific SST anomalies and its impact on North Pacific and North America. *Climate Dynamics*, **2017**, 49, 3787-3798	4.2	11
56	Feedback process responsible for intermodel diversity of ENSO variability. *Geophysical Research Letters*, **2017**, 44, 4272-4279	4.9	11
55	Role of the western hemisphere warm pool in climate variability over the western North Pacific. *Climate Dynamics*, **2019**, 53, 2743-2755	4.2	11
54	A mechanism for the multi-decadal climate oscillation in the North Pacific. *Theoretical and Applied Climatology*, **2008**, 91, 77-84	3	11
53	The internal origin of the west-east asymmetry of Antarctic climate change. *Science Advances*, **2020**, 6, eaaz1490	14.3	10
52	Feedback process responsible for the suppression of ENSO activity during the mid-Holocene. *Theoretical and Applied Climatology*, **2018**, 132, 779-790	3	10
51	An alterative effect by the tropical North Atlantic SST in intraseasonally varying El Niño teleconnection over the North Atlantic. *Tellus, Series A: Dynamic Meteorology and Oceanography*, **2013**, 65, 19863	2	10
50	Tropical Pacific basin-wide adjustment and oceanic waves. *Geophysical Research Letters*, **2001**, 28, 3975-3978	4.9	10

49	Impact of ENSO on East Asian winter monsoon during interglacial periods: effect of orbital forcing. *Climate Dynamics*, **2017**, 49, 3209-3219	4.2	9
48	Asymmetric impact of Atlantic Multidecadal Oscillation on El Niño and La Niña characteristics. *Geophysical Research Letters*, **2015**, 42, 4998-5004	4.9	9
47	The effects of ENSO under negative AO phase on spring dust activity over northern China: an observational investigation. *International Journal of Climatology*, **2015**, 35, 935-947	3.5	9
46	Propagating decadal sea surface temperature signal identified in modern proxy records of the tropical Pacific. *Climate Dynamics*, **2006**, 28, 163-179	4.2	9
45	Effects of freshwater runoff on a tropical pacific climate in the HadGEM2. *Asia-Pacific Journal of Atmospheric Sciences*, **2012**, 48, 457-463	2.1	8
44	Local versus non-local atmospheric weather noise and the North Pacific SST variability. *Geophysical Research Letters*, **2007**, 34,	4.9	8
43	Blunt ocean dynamical thermostat in response of tropical eastern Pacific SST to global warming. *Theoretical and Applied Climatology*, **2014**, 118, 173-183	3	7
42	Seasonality of tropical instability waves and its feedback to the seasonal cycle in the tropical eastern Pacific. *Scientific World Journal, The*, **2012**, 2012, 612048	2.2	7
41	Mean sea surface temperature changes influence ENSO-related precipitation changes in the mid-latitudes. *Nature Communications*, **2021**, 12, 1495	17.4	7
40	ENSO Irregularity and Asymmetry. *Geophysical Monograph Series*, **2020**, 153-172	1.1	6
39	Western North Pacific anticyclone change associated with the El Niño–Indian Ocean Dipole coupling. *International Journal of Climatology*, **2019**, 39, 2505-2521	3.5	6
38	Arctic Sea Ice Loss as a Potential Trigger for Central Pacific El Niño Events. *Geophysical Research Letters*, **2020**, 47, e2020GL087028	4.9	5
37	Relative roles of the equatorial upper ocean zonal current and thermocline in determining the timescale of the tropical climate system. *Theoretical and Applied Climatology*, **2005**, 81, 121-132	3	5
36	On the Slow Mode of a Simple Air-sea Coupled Model. *Journal of the Meteorological Society of Japan*, **2000**, 78, 159-165	2.8	5
35	Comparison of past and future simulations of ENSO in CMIP5/PMIP3 and CMIP6/PMIP4 models		5
34	Changes in the role of Pacific decadal oscillation on sea ice extent variability across the mid-1990s. *Scientific Reports*, **2020**, 10, 17564	4.9	5
33	Characteristics of the North Pacific Oscillation in CMIP5 Models in Relation to Atmospheric Mean States. *Journal of Climate*, **2020**, 33, 3809-3825	4.4	4
32	Untangling El Niño-La Niña Asymmetries Using a Nonlinear Coupled Dynamic Index. *Geophysical Research Letters*, **2020**, 47, e2019GL085881	4.9	4

31	Interdecadal Change in the Relationship Between the North Pacific Oscillation and the Pacific Meridional Mode and Its Impact on ENSO. *Asia-Pacific Journal of Atmospheric Sciences*, **2018**, 54, 63-76	2.1	4
30	Southward displacement of the upper atmosphere zonal jet in the eastern north Pacific due to global warming. *Geophysical Research Letters*, **2014**, 41, 7861-7867	4.9	4
29	Maintenance of PDO variability during the mid-holocene in PMIP2. *Climate Dynamics*, **2013**, 40, 1291-1299	4.2	4
28	Origin of early-spring central Pacific warming as the 1982–1983 El Niño precursor. *International Journal of Climatology*, **2018**, 38, 2899-2906	3.5	3
27	Changes in ENSO Activity During the Last 6,000 Years Modulated by Background Climate State. *Geophysical Research Letters*, **2018**, 45, 2467-2475	4.9	3
26	Impact of freshwater discharge from the Greenland ice sheet on North Atlantic climate variability. *Theoretical and Applied Climatology*, **2013**, 112, 29-43	3	3
25	Interaction between equatorially symmetric and asymmetric tropical eastern Pacific SSTs. *Theoretical and Applied Climatology*, **2010**, 102, 151-158	3	3
24	Diversity of North Pacific Meridional Mode and Its Distinct Impacts on El Niño-Southern Oscillation. *Geophysical Research Letters*, **2020**, 47, e2020GL088993	4.9	3
23	Accounting for skill in trend, variability, and autocorrelation facilitates better multi-model projections: Application to the AMOC and temperature time series. *PLoS ONE*, **2019**, 14, e0214535	3.7	2
22	A novel method to test non-exclusive hypotheses applied to Arctic ice projections from dependent models. *Nature Communications*, **2019**, 10, 3016	17.4	2
21	Quantifying the residual effects of ENSO on low-frequency variability in the tropical Pacific. *International Journal of Climatology*, **2013**, 33, 1047-1052	3.5	2
20	Sensitivity of the equatorial air–sea coupled system to the zonal phase difference between SST and wind stress. *Advances in Atmospheric Sciences*, **2001**, 18, 155-165	2.9	2
19	Decadal phase shift of summertime Arctic dipole pattern and its nonlinear effect on sea ice extent. *International Journal of Climatology*, **2021**, 41, 4732	3.5	2
18	Seasonal Gap Theory for ENSO Phase Locking. *Journal of Climate*, **2021**, 1-44	4.4	2
17	Seesawing of Winter Temperature Extremes between East Asia and North America. *Journal of Climate*, **2021**, 34, 4423-4434	4.4	2
16	Global Cooling Hiatus Driven by an AMOC Overshoot in a Carbon Dioxide Removal Scenario. *Earth's Future*, **2021**, 9, e2021EF002165	7.9	2
15	Mid-latitude leading double-dip La Niña. *International Journal of Climatology*, **2021**, 41, E1353	3.5	2
14	Timescale-dependent AMOC–AMO relationship in an earth system model of intermediate complexity. *International Journal of Climatology*, **2021**, 41, E3298	3.5	2

13	A novel approach for discovering stochastic models behind data applied to El Niño-Southern Oscillation. *Scientific Reports*, **2021**, 11, 2648	4.9	2
12	Improved probabilistic twenty-first century projections of sea surface temperature over East Asian marginal seas by considering uncertainty owing to model error and internal variability. *Climate Dynamics*, **2019**, 53, 6075-6087	4.2	1
11	Impact of North Atlantic Freshwater Forcing on the Pacific Meridional Overturning Circulation under Glacial and Interglacial Conditions. *Journal of Climate*, **2019**, 32, 4641-4659	4.4	1
10	Impacts of ocean gateway and basin width on Tertiary tropical climate variability in a prototype model. *Theoretical and Applied Climatology*, **2012**, 107, 155-164	3	1
9	Teleconnections in the Atmosphere **2020**, 54-88		1
8	Role of the Bay of Bengal warming in the Indian summer monsoon rainfall trend. *Climate Dynamics*,1	4.2	1
7	Fokker-Planck dynamics of the El Niño-Southern Oscillation. *Scientific Reports*, **2020**, 10, 16282	4.9	1
6	A low order dynamical model for runoff predictability. *Climate Dynamics*, **2021**, 56, 399-422	4.2	1
5	Rate-Dependent Hysteresis of the Atlantic Meridional Overturning Circulation System and Its Asymmetric Loop. *Geophysical Research Letters*, **2021**, 48, e2020GL090132	4.9	1
4	Hysteresis of the intertropical convergence zone to CO2 forcing. *Nature Climate Change*, **2022**, 12, 47-53	21.4	1
3	A flexible data-driven cyclostationary model for the probability density of El Niño-Southern Oscillation. *Chaos*, **2021**, 31, 103126	3.3	0
2	Atmosphere-driven cold SST biases over the western North Pacific in the GloSea5 seasonal forecast system. *Climate Dynamics*,1	4.2	0
1	Robust opposite-changing tendency between the thermal advection damping by mean current and thermo-dynamical damping of ENSO Feedback in a changing climate. *International Journal of Climatology*, **2019**, 39, 5822-5829	3.5	