Fei-Fei Jin

List of Publications by Year
in descending order

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138 papers	17,370 citations	30070 54 h-index	14208 128 g-index
142 all docs	142 docs citations	142 times ranked	9450 citing authors

#	Article	IF	Citations
1	Increasing frequency of extreme El NiÃ±o events due to greenhouse warming. Nature Climate Change, 2014, 4, 111-116.	18.8	1,572
2	El NiÃ±o in a changing climate. Nature, 2009, 461, 511-514.	27.8	1,325
3	An Equatorial Ocean Recharge Paradigm for ENSO. Part I: Conceptual Model. Journals of the Atmospheric Sciences, 1997, 54, 811-829.	1.7	1,254
4	Two Types of El NiÃ±o Events: Cold Tongue El NiÃ±o and Warm Pool El NiÃ±o. Journal of Climate, 2009, 22, 1499-1515.	3.2	1,137
5	ENSO theory. Journal of Geophysical Research, 1998, 103, 14261-14290.	3.3	809
6	Understanding ENSO Diversity. Bulletin of the American Meteorological Society, 2015, 96, 921-938.	3.3	745
7	El NiÃ±oâ€“Southern Oscillation complexity. Nature, 2018, 559, 535-545.	27.8	702
8	ENSO and greenhouse warming. Nature Climate Change, 2015, 5, 849-859.	18.8	596
9	Recent Walker circulation strengthening and Pacific cooling amplified by Atlantic warming. Nature Climate Change, 2014, 4, 888-892.	18.8	480
10	Nonlinearity and Asymmetry of ENSO*. Journal of Climate, 2004, 17, 2399-2412.	3.2	395
11	An Equatorial Ocean Recharge Paradigm for ENSO. Part II: A Stripped-Down Coupled Model. Journals of the Atmospheric Sciences, 1997, 54, 830-847.	1.7	392
12	NiÃ±o indices for two types of ENSO. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	330
13	Interaction between El NiÃ±o and Extreme Indian Ocean Dipole. Journal of Climate, 2010, 23, 726-742.	3.2	274
14	Strong El NiÃ±o events and nonlinear dynamical heating. Geophysical Research Letters, 2003, 30, 20-1.	4.0	258
15	NAO implicated as a predictor of Northern Hemisphere mean temperature multidecadal variability. Geophysical Research Letters, 2013, 40, 5497-5502.	4.0	240
16	A coupled-stability index for ENSO. Geophysical Research Letters, 2006, 33, .	4.0	231
17	A combination mode of the annual cycle and the ElÂNiÃ±o/Southern Oscillation. Nature Geoscience, 2013, 6, 540-544.	12.9	224
18	Polar amplification dominated by local forcing and feedbacks. Nature Climate Change, 2018, 8, 1076-1081.	18.8	216

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19	Modes of Interannual Tropical Oceanâ€“Atmosphere Interactionâ€”a Unified View. Part I: Numerical Results. Journals of the Atmospheric Sciences, 1993, 50, 3477-3503.	1.7	203
20	Western tropical Pacific multidecadal variability forced by the Atlantic multidecadal oscillation. Nature Communications, 2017, 8, 15998.	12.8	202
21	Changing El NiÃ±oâ€“Southern Oscillation in a warming climate. Nature Reviews Earth & Environment, 2021, 2, 628-644.	29.7	197
22	Warm Pool and Cold Tongue El NiÃ±o Events as Simulated by the GFDL 2.1 Coupled GCM. Journal of Climate, 2010, 23, 1226-1239.	3.2	189
23	Thermocline and Zonal Advective Feedbacks Within the Equatorial Ocean Recharge Oscillator Model for ENSO. Geophysical Research Letters, 1999, 26, 2989-2992.	4.0	187
24	Role of Indian Ocean warming in the development of Philippine Sea anticyclone during ENSO. Geophysical Research Letters, 2002, 29, 116-1-116-4.	4.0	169
25	Combination Mode Dynamics of the Anomalous Northwest Pacific Anticyclone*. Journal of Climate, 2015, 28, 1093-1111.	3.2	169
26	Revisiting ENSO/Indian Ocean Dipole phase relationships. Geophysical Research Letters, 2017, 44, 2481-2492.	4.0	168
27	Increasing autumn drought over southern China associated with ENSO regime shift. Geophysical Research Letters, 2014, 41, 4020-4026.	4.0	164
28	Collective Role of Thermocline and Zonal Advective Feedbacks in the ENSO Mode*. Journal of Climate, 2001, 14, 3421-3432.	3.2	155
29	Recharge Oscillator Mechanisms in Two Types of ENSO. Journal of Climate, 2013, 26, 6506-6523.	3.2	154
30	A Theory of Interdecadal Climate Variability of the North Pacific Oceanâ€“Atmosphere System*. Journal of Climate, 1997, 10, 1821-1835.	3.2	151
31	Response of El NiÃ±o sea surface temperature variability to greenhouse warming. Nature Climate Change, 2014, 4, 786-790.	18.8	147
32	Weakened Interannual Variability in the Tropical Pacific Ocean since 2000. Journal of Climate, 2013, 26, 2601-2613.	3.2	132
33	A Nonlinear Theory for El NiÃ±o Bursting. Journals of the Atmospheric Sciences, 2003, 60, 152-165.	1.7	127
34	Unraveling El NiÃ±o's impact on the East Asian Monsoon and Yangtze River summer flooding. Geophysical Research Letters, 2016, 43, 11,375.	4.0	125
35	Contrasting Impacts of Two-Type El Nino over the Western North Pacific during Boreal Autumn. Journal of the Meteorological Society of Japan, 2011, 89, 563-569.	1.8	124
36	Ensemble-mean dynamics of the ENSO recharge oscillator under state-dependent stochastic forcing. Geophysical Research Letters, 2007, 34, .	4.0	120

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37	ENSO stability in coupled climate models and its association with mean state. Climate Dynamics, 2014, 42, 3313-3321.	3.8	112
38	A Moist Linear Baroclinic Model: Coupled Dynamicalâ€“Convective Response to El NiÃ±o. Journal of Climate, 2003, 16, 1121-1139.	3.2	111
39	The simplest ENSO recharge oscillator. Geophysical Research Letters, 2005, 32, .	4.0	110
40	Impact of different El NiÃ±o types on the El NiÃ±o/IOD relationship. Geophysical Research Letters, 2015, 42, 8570-8576.	4.0	110
41	A Nonlinear Mechanism for Decadal El NiÃ±O Amplitude Changes. Geophysical Research Letters, 2002, 29, 3-1.	4.0	104
42	An eigen analysis of the interdecadal changes in the structure and frequency of ENSO mode. Geophysical Research Letters, 2000, 27, 2573-2576.	4.0	90
43	ENSO Seasonal Synchronization Theory. Journal of Climate, 2014, 27, 5285-5310.	3.2	85
44	Coexistence of Equatorial Coupled Modes of ENSO*. Journal of Climate, 2008, 21, 3051-3067.	3.2	79
45	The response of ENSO flavors to midâ€Holocene climate: Implications for proxy interpretation. Paleoceanography, 2015, 30, 527-547.	3.0	75
46	Noise-Induced Instability in the ENSO Recharge Oscillator. Journals of the Atmospheric Sciences, 2010, 67, 529-542.	1.7	74
47	A Systematic Approximation of the SST Anomaly Equation for ENSO.. Journal of the Meteorological Society of Japan, 2001, 79, 1-10.	1.8	73
48	Phytoplankton influences on tropical climate. Geophysical Research Letters, 2002, 29, 19-1-19-4.	4.0	73
49	Low-Frequency Modes of Tropical Ocean Dynamics*. Journal of Climate, 2001, 14, 3874-3881.	3.2	72
50	A New Understanding of El NiÃ±oâ€™s Impact over East Asia: Dominance of the ENSO Combination Mode. Journal of Climate, 2016, 29, 4347-4359.	3.2	67
51	An ENSO stability analysis. Part I: results from a hybrid coupled model. Climate Dynamics, 2011, 36, 1593-1607.	3.8	65
52	Impact of ENSO longitudinal position on teleconnections to the NAO. Climate Dynamics, 2019, 52, 257-274.	3.8	65
53	Seasonal Synchronization of ENSO Events in a Linear Stochastic Model*. Journal of Climate, 2010, 23, 5629-5643.	3.2	61
54	Recent Acceleration of Arabian Sea Warming Induced by the Atlanticâ€Western Pacific Transâ€basin Multidecadal Variability. Geophysical Research Letters, 2019, 46, 1662-1671.	4.0	59

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55	Preconditions for El NiÃ±o and La NiÃ±a onsets and their relation to the Indian Ocean. Geophysical Research Letters, 2005, 32, .	4.0	57
56	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.	1.8	54
57	Stateâ€dependent atmospheric noise associated with ENSO. Geophysical Research Letters, 2008, 35, .	4.0	52
58	Decadal modulation of the ENSOâ€“East Asian winter monsoon relationship by the Atlantic Multidecadal Oscillation. Climate Dynamics, 2017, 49, 2531-2544.	3.8	51
59	Two Leading ENSO Modes and El NiÃ±o Types in the Zebiakâ€“Cane Model. Journal of Climate, 2018, 31, 1943-1962.	3.2	47
60	Antarctic circumpolar waves: An Indication of ocean-atmosphere coupling in the extratropics. Geophysical Research Letters, 1997, 24, 2585-2588.	4.0	46
61	El NiÃ±oâ˜Southern Oscillation frequency cascade. Proceedings of the National Academy of Sciences of the United States of America, 2015, 112, 13490-13495.	7.1	46
62	Differences in Teleconnection over the North Pacific and Rainfall Shift over the USA Associated with Two Types of El NiÃ±o during Boreal Autumn. Journal of the Meteorological Society of Japan, 2012, 90, 535-552.	1.8	46
63	On the Bias in Simulated ENSO SSTA Meridional Widths of CMIP3 Models. Journal of Climate, 2013, 26, 3173-3186.	3.2	45
64	The Annual-Cycle Modulation of Meridional Asymmetry in ENSOâ€™s Atmospheric Response and Its Dependence on ENSO Zonal Structure. Journal of Climate, 2015, 28, 5795-5812.	3.2	44
65	Fundamental Behavior of ENSO Phase Locking. Journal of Climate, 2020, 33, 1953-1968.	3.2	43
66	Spatial and temporal features of ENSO meridional scales. Geophysical Research Letters, 2009, 36, .	4.0	40
67	Dynamics for El NiÃ±o-La NiÃ±a asymmetry constrain equatorial-Pacific warming pattern. Nature Communications, 2020, 11, 4230.	12.8	40
68	Improved Predictability of the Indian Ocean Dipole Using Seasonally Modulated ENSO Forcing Forecasts. Geophysical Research Letters, 2019, 46, 9980-9990.	4.0	39
69	Maintenance of mid-latitude oceanic fronts by mesoscale eddies. Science Advances, 2020, 6, eaba7880.	10.3	39
70	Improvements in the CMIP5 simulations of ENSOâ€SSTA meridional width. Geophysical Research Letters, 2012, 39, .	4.0	38
71	Exceptionally Persistent Maddenâ€Julian Oscillation Activity Contributes to the Extreme 2020 East Asian Summer Monsoon Rainfall. Geophysical Research Letters, 2021, 48, e2020GL091588.	4.0	38
72	ENSO Regime Change since the Late 1970s as Manifested by Two Types of ENSO. Journal of the Meteorological Society of Japan, 2013, 91, 835-842.	1.8	37

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73	Contrasting Local and Remote Impacts of Surface Heating on Polar Warming and Amplification. Journal of Climate, 2018, 31, 3155-3166.	3.2	33
74	Spurious North Tropical Atlantic precursors to El NiÃ±o. Nature Communications, 2021, 12, 3096.	12.8	33
75	A near-annual coupled ocean-atmosphere mode in the equatorial Pacific ocean. Geophysical Research Letters, 2003, 30, .	4.0	32
76	A comparison of climatological subseasonal variations in the wintertime storm track activity between the North Pacific and Atlantic: local energetics and moisture effect. Climate Dynamics, 2011, 37, 2455-2469.	3.8	32
77	A Coupled Dynamic Index for ENSO Periodicity. Journal of Climate, 2018, 31, 2361-2376.	3.2	32
78	Strong remote control of future equatorial warming by off-equatorial forcing. Nature Climate Change, 2020, 10, 124-129.	18.8	32
79	Interhemispheric influence of Indo-Pacific convection oscillation on Southern Hemisphere rainfall through southward propagation of Rossby waves. Climate Dynamics, 2019, 52, 3203-3221.	3.8	31
80	Contrasting Responses of the Hadley Circulation to Equatorially Asymmetric and Symmetric Meridional Sea Surface Temperature Structures. Journal of Climate, 2016, 29, 8949-8963.	3.2	30
81	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
82	A Tropical Ocean Recharge Mechanism for Climate Variability. Part I: Equatorial Heat Content Changes Induced by the Off-Equatorial Wind. Journal of Climate, 2003, 16, 3585-3598.	3.2	27
83	Subsurface Nonlinear Dynamical Heating and ENSO Asymmetry. Geophysical Research Letters, 2017, 44, 12,427.	4.0	25
84	Pacific Meridional Modeâ€Western North Pacific Tropical Cyclone Linkage Explained by Tropical Pacific Quasiâ€Decadal Variability. Geophysical Research Letters, 2019, 46, 13346-13354.	4.0	24
85	Simulations of ENSO Phase-Locking in CMIP5 and CMIP6. Journal of Climate, 2021, 34, 5135-5149.	3.2	24
86	A Tropical Ocean Recharge Mechanism for Climate Variability. Part II: A Unified Theory for Decadal and ENSO Modes. Journal of Climate, 2003, 16, 3599-3616.	3.2	23
87	Modulation of the Relationship between ENSO and Its Combination Mode by the Atlantic Multidecadal Oscillation. Journal of Climate, 2020, 33, 4679-4695.	3.2	21
88	ENSO Regime Changes Responsible for Decadal Phase Relationship Variations Between ENSO Sea Surface Temperature and Warm Water Volume. Geophysical Research Letters, 2019, 46, 7546-7553.	4.0	20
89	Global decline in ocean memory over the 21st century. Science Advances, 2022, 8, eabm3468.	10.3	20
90	Airâ€sea fluxes for <scp>H</scp>urricane <scp>P</scp>atricia (2015): Comparison with supertyphoon <scp>H</scp>aiyan (2013) and under different <scp>ENSO</scp> conditions. Journal of Geophysical Research: Oceans, 2017, 122, 6076-6089.	2.6	19

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91	A New Method for Interpreting Nonstationary Running Correlations and Its Application to the ENSOâ€EAWM Relationship. Geophysical Research Letters, 2018, 45, 327-334.	4.0	18
92	Different Effects of Two ENSO Types on Arctic Surface Temperature in Boreal Winter. Journal of Climate, 2019, 32, 4943-4961.	3.2	18
93	Tropical Indoâ€Pacific Compounding Thermal Conditions Drive the 2019 Australian Extreme Drought. Geophysical Research Letters, 2021, 48, e2020GL090323.	4.0	18
94	Effect of El NiÃ±o on the response ratio of Hadley circulation to different SST meridional structures. Climate Dynamics, 2019, 53, 3877-3891.	3.8	17
95	Seasonality and El NiÃ±o Diversity in the Relationship between ENSO and Western North Pacific Tropical Cyclone Activity. Journal of Climate, 2019, 32, 8021-8045.	3.2	17
96	Summertime stationary waves integrate tropical and extratropical impacts on tropical cyclone activity. Proceedings of the National Academy of Sciences of the United States of America, 2020, 117, 22720-22726.	7.1	17
97	Tropospheric Biennial Oscillation (TBO) indistinguishable from white noise. Geophysical Research Letters, 2015, 42, 7785-7791.	4.0	15
98	Different controls of tropical cyclone activity in the Eastern Pacific for two types of El NiÃ±o. Geophysical Research Letters, 2016, 43, 1679-1686.	4.0	15
99	Relationship between the Hadley Circulation and Different Tropical Meridional SST Structures during Boreal Summer. Journal of Climate, 2018, 31, 6575-6590.	3.2	14
100	Delineating the Seasonally Modulated Nonlinear Feedback Onto ENSO From Tropical Instability Waves. Geophysical Research Letters, 2020, 47, e2019GL085863.	4.0	14
101	Decadal Modulation of the ENSOâ€“Indian Ocean Basin Warming Relationship during the Decaying Summer by the Interdecadal Pacific Oscillation. Journal of Climate, 2021, 34, 2685-2699.	3.2	14
102	Zonal phase propagation of ENSO sea surface temperature anomalies: Revisited. Geophysical Research Letters, 2013, 40, 4048-4053.	4.0	13
103	The responses of the Hadley circulation to different meridional SST structures in the seasonal cycle. Journal of Geophysical Research D: Atmospheres, 2017, 122, 7785-7799.	3.3	13
104	Modulation of tropical cyclones in the southeastern part of western North Pacific by tropical Pacific decadal variability. Climate Dynamics, 2019, 53, 4475-4488.	3.8	13
105	A simple theory for the modulation of tropical instability waves by ENSO and the annual cycle. Tellus, Series A: Dynamic Meteorology and Oceanography, 2022, 72, 1700087.	1.7	13
106	Dynamics of upwelling annual cycle in the equatorial Atlantic Ocean. Geophysical Research Letters, 2017, 44, 3737-3743.	4.0	12
107	A Comparison of the Response of the Hadley Circulation to Different Tropical SST Meridional Structures During the Equinox Seasons. Journal of Geophysical Research D: Atmospheres, 2018, 123, 2591-2604.	3.3	12
108	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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109	On the Breakdown of ENSO's Relationship With Thermocline Depth in the Centralâ€Equatorial Pacific. Geophysical Research Letters, 2021, 48, e2020GL092335.	4.0	12
110	North Atlantic as a Trigger for Pacificâ€Wide Decadal Climate Change. Geophysical Research Letters, 2021, 48, e2021GL094719.	4.0	12
111	Influence of Oceanic Intraseasonal Kelvin Waves on Eastern Pacific Hurricane Activity. Journal of Climate, 2016, 29, 7941-7955.	3.2	11
112	Common Warming Pattern Emerges Irrespective of Forcing Location. Journal of Advances in Modeling Earth Systems, 2017, 9, 2413-2424.	3.8	11
113	Improving the MJO Forecast of S2S Operation Models by Correcting Their Biases in Linear Dynamics. Geophysical Research Letters, 2021, 48, e2020GL091930.	4.0	11
114	Improved Predictability of the Indian Ocean Dipole Using a Stochastic Dynamical Model Compared to the North American Multimodel Ensemble Forecast. Weather and Forecasting, 2020, 35, 379-399.	1.4	10
115	ENSO Dynamics in the E3SM-1-0, CESM2, and GFDL-CM4 Climate Models. Journal of Climate, 2021, , 1-59.	3.2	10
116	On the influence of ENSO complexity on Pan-Pacific coastal wave extremes. Proceedings of the National Academy of Sciences of the United States of America, 2021, 118, .	7.1	10
117	Reply to â€œComments on â€˜Combination Mode Dynamics of the Anomalous Northwest Pacific Anticycloneâ€™â€•. Journal of Climate, 2016, 29, 4695-4706.	3.2	9
118	Modes of hurricane activity variability in the eastern Pacific: Implications for the 2016 season. Geophysical Research Letters, 2016, 43, 11,358.	4.0	9
119	Distinct Surface Warming Response Over the Western and Eastern Equatorial Pacific to Radiative Forcing. Geophysical Research Letters, 2022, 49, .	4.0	9
120	Future Amplification of Sea Surface Temperature Seasonality Due To Enhanced Ocean Stratification. Geophysical Research Letters, 2022, 49, .	4.0	8
121	Dynamics of simulated <scp>A</scp>tlantic upwelling annual cycle in <scp>CMIP</scp>5 models. Journal of Geophysical Research: Oceans, 2017, 122, 5774-5785.	2.6	7
122	Understanding Lead Times of Warmâ€Waterâ€Volumes to ENSO Sea Surface Temperature Anomalies. Geophysical Research Letters, 2021, 48, e2021GL094366.	4.0	7
123	Decadal Change of Combination Mode Spatiotemporal Characteristics due to an ENSO Regime Shift. Journal of Climate, 2020, 33, 5239-5251.	3.2	7
124	MJO Phase Swings Modulate the Recurring Latitudinal Shifts of the 2020 Extreme Summerâ€Monsoon Rainfall Around Yangtse. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	3.3	7
125	Dynamical diagnostics of the SST annual cycle in the eastern equatorial Pacific: partÂI a linear coupled framework. Climate Dynamics, 2018, 50, 1841-1862.	3.8	6
126	El NiÃ±o Pacing Orchestrates Interâ€Basin Pacificâ€Indian Ocean Interannual Connections. Geophysical Research Letters, 2021, 48, e2021GL095242.	4.0	6

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127	Dynamical diagnostics of the SST annual cycle in the eastern equatorial Pacific: PartÂII analysis of CMIP5 simulations. Climate Dynamics, 2017, 49, 3923-3936.	3.8	5
128	Dynamics of ENSO Phaseâ€“Locking and Its Biases in Climate Models. Geophysical Research Letters, 2022, 49, .	4.0	5
129	Equatorial Origin of the Observed Tropical Pacific Quasiâ€Đecadal Variability From ENSO Nonlinearity. Geophysical Research Letters, 2022, 49, .	4.0	5
130	An Improved Atmospheric Component of Zebiak-Cane Model for Simulating ENSO Winds. Journal of the Meteorological Society of Japan, 2015, 93, 535-550.	1.8	4
131	The Phaseâ€Łocking of Tropical North Atlantic and the Contribution of ENSO. Geophysical Research Letters, 2021, 48, e2021GL095610.	4.0	4
132	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
133	Toward Understanding El NiÃ±o Southern-Oscillationâ€™s Spatiotemporal Pattern Diversity. Frontiers in Earth Science, 2022, 10, .	1.8	4
134	A Concise and Effective Expression Relating Subsurface Temperature to the Thermocline in the Equatorial Pacific. Geophysical Research Letters, 2020, 47, e2020GL087848.	4.0	3
135	Mode of Precipitation Variability Generated by Coupling of ENSO With Seasonal Cycle in the Tropical Pacific. Geophysical Research Letters, 2021, 48, e2021GL095204.	4.0	2
136	ENSO Diversity Simulated in a Revised Cane-Zebiak Model. Frontiers in Earth Science, 2022, 10, .	1.8	2
137	Meridional migration of ENSO impact on tropical Atlantic precipitation controlled by the seasonal cycle. Geophysical Research Letters, 2021, 48, e2021GL096365.	4.0	1
138	Effective ENSO amplitude forecasts based on oceanic and atmospheric preconditions. Journal of Climate, 2022, , 1-50.	3.2	0