

Soon-Il An

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Hysteresis of the intertropical convergence zone to CO2 forcing. <i>Nature Climate Change</i> , 2022 , 12, 47-53	21.4	1
137	A flexible data-driven cyclostationary model for the probability density of El Niño-Southern Oscillation. <i>Chaos</i> , 2021 , 31, 103126	3.3	0
136	Decadal phase shift of summertime Arctic dipole pattern and its nonlinear effect on sea ice extent. <i>International Journal of Climatology</i> , 2021 , 41, 4732	3.5	2
135	Mean sea surface temperature changes influence ENSO-related precipitation changes in the mid-latitudes. <i>Nature Communications</i> , 2021 , 12, 1495	17.4	7
134	Seasonal Gap Theory for ENSO Phase Locking. <i>Journal of Climate</i> , 2021 , 1-44	4.4	2
133	Seesawing of Winter Temperature Extremes between East Asia and North America. <i>Journal of Climate</i> , 2021 , 34, 4423-4434	4.4	2
132	Global Cooling Hiatus Driven by an AMOC Overshoot in a Carbon Dioxide Removal Scenario. <i>Earth's Future</i> , 2021 , 9, e2021EF002165	7.9	2
131	Mid-latitude leading double-dip La Niña. <i>International Journal of Climatology</i> , 2021 , 41, E1353	3.5	2
130	Timescale-dependent AMOC-AMO relationship in an earth system model of intermediate complexity. <i>International Journal of Climatology</i> , 2021 , 41, E3298	3.5	2
129	A low order dynamical model for runoff predictability. <i>Climate Dynamics</i> , 2021 , 56, 399-422	4.2	1
128	A novel approach for discovering stochastic models behind data applied to El Niño-Southern Oscillation. <i>Scientific Reports</i> , 2021 , 11, 2648	4.9	2
127	Rate-Dependent Hysteresis of the Atlantic Meridional Overturning Circulation System and Its Asymmetric Loop. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL090132	4.9	1
126	The internal origin of the west-east asymmetry of Antarctic climate change. <i>Science Advances</i> , 2020 , 6, eaaz1490	14.3	10
125	A global-scale multidecadal variability driven by Atlantic multidecadal oscillation. <i>National Science Review</i> , 2020 , 7, 1190-1197	10.8	17
124	Arctic Sea Ice Loss as a Potential Trigger for Central Pacific El Niño Events. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087028	4.9	5
123	Characteristics of the North Pacific Oscillation in CMIP5 Models in Relation to Atmospheric Mean States. <i>Journal of Climate</i> , 2020 , 33, 3809-3825	4.4	4
122	Untangling El Niño-La Niña Asymmetries Using a Nonlinear Coupled Dynamic Index. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL085881	4.9	4

121	Teleconnections in the Atmosphere 2020 , 54-88		1
120	Comparison of past and future simulations of ENSO in CMIP5/PMIP3 and CMIP6/PMIP4 models. <i>Climate of the Past</i> , 2020 , 16, 1777-1805	3.9	16
119	ENSO Irregularity and Asymmetry. <i>Geophysical Monograph Series</i> , 2020 , 153-172	1.1	6
118	Diversity of North Pacific Meridional Mode and Its Distinct Impacts on El Niño-Southern Oscillation. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL088993	4.9	3
117	Fokker-Planck dynamics of the El Niño-Southern Oscillation. <i>Scientific Reports</i> , 2020 , 10, 16282	4.9	1
116	Changes in the role of Pacific decadal oscillation on sea ice extent variability across the mid-1990s. <i>Scientific Reports</i> , 2020 , 10, 17564	4.9	5
115	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. <i>Climate Dynamics</i> , 2019 , 53, 6075-6087	4.2	1
114	Impact of North Atlantic Freshwater Forcing on the Pacific Meridional Overturning Circulation under Glacial and Interglacial Conditions. <i>Journal of Climate</i> , 2019 , 32, 4641-4659	4.4	1
113	Accounting for skill in trend, variability, and autocorrelation facilitates better multi-model projections: Application to the AMOC and temperature time series. <i>PLoS ONE</i> , 2019 , 14, e0214535	3.7	2
112	Role of the western hemisphere warm pool in climate variability over the western North Pacific. <i>Climate Dynamics</i> , 2019 , 53, 2743-2755	4.2	11
111	A novel method to test non-exclusive hypotheses applied to Arctic ice projections from dependent models. <i>Nature Communications</i> , 2019 , 10, 3016	17.4	2
110	Western North Pacific anticyclone change associated with the El Niño-Indian Ocean Dipole coupling. <i>International Journal of Climatology</i> , 2019 , 39, 2505-2521	3.5	6
109	Robust opposite-changing tendency between the thermal advection damping by mean current and thermo-dynamical damping of ENSO Feedback in a changing climate. <i>International Journal of Climatology</i> , 2019 , 39, 5822-5829	3.5	
108	Origin of early-spring central Pacific warming as the 1982-1983 El Niño precursor. <i>International Journal of Climatology</i> , 2018 , 38, 2899-2906	3.5	3
107	ENSO Atmospheric Teleconnections and Their Response to Greenhouse Gas Forcing. <i>Reviews of Geophysics</i> , 2018 , 56, 185-206	23.1	207
106	Projected Heat Wave Characteristics over the Korean Peninsula During the Twenty-First Century. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2018 , 54, 53-61	2.1	16
105	Changes in ENSO Activity During the Last 6,000 Years Modulated by Background Climate State. <i>Geophysical Research Letters</i> , 2018 , 45, 2467-2475	4.9	3
104	Feedback process responsible for the suppression of ENSO activity during the mid-Holocene. <i>Theoretical and Applied Climatology</i> , 2018 , 132, 779-790	3	10

103	North Atlantic observations sharpen meridional overturning projections. <i>Climate Dynamics</i> , 2018 , 50, 4171-4188	4.2	16
102	El Niño-Southern Oscillation complexity. <i>Nature</i> , 2018 , 559, 535-545	50.4	389
101	Interdecadal Change in the Relationship Between the North Pacific Oscillation and the Pacific Meridional Mode and Its Impact on ENSO. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2018 , 54, 63-76	2.1	4
100	ENSO Transition Asymmetry: Internal and External Causes and Intermodel Diversity. <i>Geophysical Research Letters</i> , 2018 , 45, 5095-5104	4.9	18
99	Role of nonlinear ocean dynamic response to wind on the asymmetrical transition of El Niño and La Niña. <i>Geophysical Research Letters</i> , 2017 , 44, 393-400	4.9	30
98	Impact of ENSO on East Asian winter monsoon during interglacial periods: effect of orbital forcing. <i>Climate Dynamics</i> , 2017 , 49, 3209-3219	4.2	9
97	Interannual variability of western North Pacific SST anomalies and its impact on North Pacific and North America. <i>Climate Dynamics</i> , 2017 , 49, 3787-3798	4.2	11
96	Feedback process responsible for intermodel diversity of ENSO variability. <i>Geophysical Research Letters</i> , 2017 , 44, 4272-4279	4.9	11
95	ENSO and East Asian winter monsoon relationship modulation associated with the anomalous northwest Pacific anticyclone. <i>Climate Dynamics</i> , 2017 , 49, 1157-1179	4.2	50
94	Inter-decadal change in El Niño-Southern Oscillation examined with Bjerknes stability index analysis. <i>Climate Dynamics</i> , 2016 , 47, 967-979	4.2	20
93	Changes in weather and climate extremes over Korea and possible causes: A review. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2015 , 51, 103-121	2.1	54
92	ENSO and greenhouse warming. <i>Nature Climate Change</i> , 2015 , 5, 849-859	21.4	441
91	Linking Emergence of the Central Pacific El Niño to the Atlantic Multidecadal Oscillation. <i>Journal of Climate</i> , 2015 , 28, 651-662	4.4	125
90	Feedback processes responsible for El Niño-La Niña amplitude asymmetry. <i>Geophysical Research Letters</i> , 2015 , 42, 5556-5563	4.9	41
89	Asymmetric impact of Atlantic Multidecadal Oscillation on El Niño and La Niña characteristics. <i>Geophysical Research Letters</i> , 2015 , 42, 4998-5004	4.9	9
88	The effects of ENSO under negative AO phase on spring dust activity over northern China: an observational investigation. <i>International Journal of Climatology</i> , 2015 , 35, 935-947	3.5	9
87	Why the twenty-first century tropical Pacific trend pattern cannot significantly influence ENSO amplitude?. <i>Climate Dynamics</i> , 2015 , 44, 133-146	4.2	18
86	Recent progress on two types of El Niño: Observations, dynamics, and future changes. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2014 , 50, 69-81	2.1	96

85	Response of El Niño sea surface temperature variability to greenhouse warming. <i>Nature Climate Change</i> , 2014 , 4, 786-790	21.4	116
84	Role of tropical atlantic SST variability as a modulator of El Niño teleconnections. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2014 , 50, 247-261	2.1	16
83	A physical mechanism of the precipitation dipole in the western United States based on PDO-storm track relationship. <i>Geophysical Research Letters</i> , 2014 , 41, 4719-4726	4.9	23
82	Southward displacement of the upper atmosphere zonal jet in the eastern north Pacific due to global warming. <i>Geophysical Research Letters</i> , 2014 , 41, 7861-7867	4.9	4
81	Mid-Holocene tropical Pacific climate state, annual cycle, and ENSO in PMIP2 and PMIP3. <i>Climate Dynamics</i> , 2014 , 43, 957-970	4.2	43
80	Altered atmospheric responses to eastern Pacific and central Pacific El Niños over the North Atlantic region due to stratospheric interference. <i>Climate Dynamics</i> , 2014 , 42, 159-170	4.2	28
79	The impact of tropical western Pacific convection on the North Pacific atmospheric circulation during the boreal winter. <i>Climate Dynamics</i> , 2014 , 43, 2227-2238	4.2	23
78	Blunt ocean dynamical thermostat in response of tropical eastern Pacific SST to global warming. <i>Theoretical and Applied Climatology</i> , 2014 , 118, 173-183	3	7
77	Quantifying the residual effects of ENSO on low-frequency variability in the tropical Pacific. <i>International Journal of Climatology</i> , 2013 , 33, 1047-1052	3.5	2
76	Maintenance of PDO variability during the mid-holocene in PMIP2. <i>Climate Dynamics</i> , 2013 , 40, 1291-1299	4.2	4
75	Inverse relationship between the equatorial eastern Pacific annual-cycle and ENSO amplitudes in a coupled general circulation model. <i>Climate Dynamics</i> , 2013 , 40, 663-675	4.2	14
74	On the subarctic North Atlantic cooling due to global warming. <i>Theoretical and Applied Climatology</i> , 2013 , 114, 9-19	3	22
73	Quantitative assessment of the climate components driving the pacific decadal oscillation in climate models. <i>Theoretical and Applied Climatology</i> , 2013 , 112, 431-445	3	16
72	Impact of freshwater discharge from the Greenland ice sheet on North Atlantic climate variability. <i>Theoretical and Applied Climatology</i> , 2013 , 112, 29-43	3	3
71	Late-twentieth-century emergence of the El Niño propagation asymmetry and future projections. <i>Nature</i> , 2013 , 504, 126-30	50.4	97
70	ENSO-Like and ENSO-Induced Tropical Pacific Decadal Variability in CGCMs. <i>Journal of Climate</i> , 2013 , 26, 1485-1501	4.4	23
69	Influence of Recent Stratification Changes on ENSO Stability in a Conceptual Model of the Equatorial Pacific. <i>Journal of Climate</i> , 2013 , 26, 4790-4802	4.4	12
68	An alterative effect by the tropical North Atlantic SST in intraseasonally varying El Niño teleconnection over the North Atlantic. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2013 , 65, 19863	2	10

67	Impacts of ocean gateway and basin width on Tertiary tropical climate variability in a prototype model. <i>Theoretical and Applied Climatology</i> , 2012 , 107, 155-164	3	1
66	Recent and future sea surface temperature trends in tropical pacific warm pool and cold tongue regions. <i>Climate Dynamics</i> , 2012 , 39, 1373-1383	4.2	38
65	Effects of freshwater runoff on a tropical pacific climate in the HadGEM2. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2012 , 48, 457-463	2.1	8
64	Seasonality of tropical instability waves and its feedback to the seasonal cycle in the tropical eastern Pacific. <i>Scientific World Journal, The</i> , 2012 , 2012, 612048	2.2	7
63	Decadal amplitude modulation of two types of ENSO and its relationship with the mean state. <i>Climate Dynamics</i> , 2012 , 38, 2631-2644	4.2	68
62	Vertical structure variability and equatorial waves during central Pacific and eastern Pacific El Niños in a coupled general circulation model. <i>Climate Dynamics</i> , 2012 , 38, 2275-2289	4.2	19
61	A linkage between the North Atlantic Oscillation and its downstream development due to the existence of a blocking ridge. <i>Journal of Geophysical Research</i> , 2011 , 116,		18
60	Linear solutions for the frequency and amplitude modulation of ENSO by the annual cycle. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2011 , 63, 238-243	2	15
59	The role of mean state on changes in El Niño flavor. <i>Climate Dynamics</i> , 2011 , 37, 1205-1215	4.2	89
58	Atmospheric Responses of Gill-Type and Lindzen-Nigam Models to Global Warming. <i>Journal of Climate</i> , 2011 , 24, 6165-6173	4.4	22
57	Sensitivity of ENSO to Stratification in a Recharge-Discharge Conceptual Model. <i>Journal of Climate</i> , 2011 , 24, 4332-4349	4.4	13
56	Understanding ENSO Regime Behavior upon an Increase in the Warm-Pool Temperature Using a Simple ENSO Model. <i>Journal of Climate</i> , 2011 , 24, 1438-1450	4.4	13
55	The impact of global warming on the tropical Pacific Ocean and El Niño. <i>Nature Geoscience</i> , 2010 , 3, 391-398	3	828
54	Warm Pool and Cold Tongue El Niño Events as Simulated by the GFDL 2.1 Coupled GCM. <i>Journal of Climate</i> , 2010 , 23, 1226-1239	4.4	170
53	The Inverse Effect of Annual-Mean State and Annual-Cycle Changes on ENSO. <i>Journal of Climate</i> , 2010 , 23, 1095-1110	4.4	26
52	ENSO Feedbacks and Associated Time Scales of Variability in a Multimodel Ensemble. <i>Journal of Climate</i> , 2010 , 23, 3181-3204	4.4	18
51	Changes in El Niño and La Niña teleconnections over North Pacific America in the global warming simulations. <i>Theoretical and Applied Climatology</i> , 2010 , 100, 275-282	3	60
50	Interaction between equatorially symmetric and asymmetric tropical eastern Pacific SSTs. <i>Theoretical and Applied Climatology</i> , 2010 , 102, 151-158	3	3

49	A review of interdecadal changes in the nonlinearity of the El Niño-Southern Oscillation. <i>Theoretical and Applied Climatology</i> , 2009 , 97, 29-40	3	77
48	Two Types of El Niño Events: Cold Tongue El Niño and Warm Pool El Niño. <i>Journal of Climate</i> , 2009 , 22, 1499-1515	4.4	963
47	Low-Frequency Variability of Temperature in the Vicinity of the Equatorial Pacific Thermocline in SODA: Role of Equatorial Wave Dynamics and ENSO Asymmetry. <i>Journal of Climate</i> , 2009 , 22, 5783-5795	4.4	18
46	Seasonal locking of the ENSO asymmetry and its influence on the seasonal cycle of the tropical eastern Pacific sea surface temperature. <i>Atmospheric Research</i> , 2009 , 94, 3-9	5.4	15
45	Interactive Feedback between the Tropical Pacific Decadal Oscillation and ENSO in a Coupled General Circulation Model. <i>Journal of Climate</i> , 2009 , 22, 6597-6611	4.4	49
44	Interannual Variations of the Tropical Ocean Instability Wave and ENSO. <i>Journal of Climate</i> , 2008 , 21, 3680-3686	4.4	96
43	Successive Modulation of ENSO to the Future Greenhouse Warming. <i>Journal of Climate</i> , 2008 , 21, 3-21	4.4	65
42	A mechanism for the multi-decadal climate oscillation in the North Pacific. <i>Theoretical and Applied Climatology</i> , 2008 , 91, 77-84	3	11
41	Local versus non-local atmospheric weather noise and the North Pacific SST variability. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	8
40	The Influence of a Weakening of the Atlantic Meridional Overturning Circulation on ENSO. <i>Journal of Climate</i> , 2007 , 20, 4899-4919	4.4	251
39	The Influence of ENSO on the Generation of Decadal Variability in the North Pacific*. <i>Journal of Climate</i> , 2007 , 20, 667-680	4.4	34
38	The Effect of Orbital Forcing on the Mean Climate and Variability of the Tropical Pacific. <i>Journal of Climate</i> , 2007 , 20, 4147-4159	4.4	99
37	Interaction between Near-Annual and ENSO Modes in a CGCM Simulation: Role of the Equatorial Background Mean State. <i>Journal of Climate</i> , 2007 , 20, 1035-1052	4.4	22
36	Role of the ENSO-Indian Ocean coupling on ENSO variability in a coupled GCM. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	99
35	Changes in the leading ENSO modes associated with the late 1970s climate shift: Role of surface zonal current. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	21
34	Propagating decadal sea surface temperature signal identified in modern proxy records of the tropical Pacific. <i>Climate Dynamics</i> , 2006 , 28, 163-179	4.2	9
33	ENSO Suppression due to Weakening of the North Atlantic Thermohaline Circulation*. <i>Journal of Climate</i> , 2005 , 18, 3122-3139	4.4	141
32	Preconditions for El Niño and La Niña onsets and their relation to the Indian Ocean. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	51

31	A method for detecting season-dependent modes of climate variability: S-EOF analysis. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	61
30	Decadal change in relationship between east Asian and WNP summer monsoons. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	122
29	The Forced and Intrinsic Low-Frequency Modes in the North Pacific*. <i>Journal of Climate</i> , 2005 , 18, 876-885	4.4	27
28	El Niño-La Niña Asymmetry in the Coupled Model Intercomparison Project Simulations*. <i>Journal of Climate</i> , 2005 , 18, 2617-2627	4.4	74
27	A Nonlinear Analysis of the ENSO Cycle and Its Interdecadal Changes*. <i>Journal of Climate</i> , 2005 , 18, 3229-3239	4.4	39
26	Relative roles of the equatorial upper ocean zonal current and thermocline in determining the timescale of the tropical climate system. <i>Theoretical and Applied Climatology</i> , 2005 , 81, 121-132	3	5
25	Nonlinearity and Asymmetry of ENSO*. <i>Journal of Climate</i> , 2004 , 17, 2399-2412	4.4	338
24	A dynamic link between the basin-scale and zonal modes in the Tropical Indian Ocean. <i>Theoretical and Applied Climatology</i> , 2004 , 78, 203	3	25
23	Interdecadal changes in the El Niño-La Niña asymmetry. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	53
22	Modeling evidence for enhanced El Niño-Southern Oscillation amplitude during the Last Glacial Maximum. <i>Paleoceanography</i> , 2004 , 19, n/a-n/a		31
21	A Near-Annual Pacific Ocean Basin Mode. <i>Journal of Climate</i> , 2004 , 17, 2478-2488	4.4	26
20	Conditional Maximum Covariance Analysis and Its Application to the Tropical Indian Ocean SST and Surface Wind Stress Anomalies*. <i>Journal of Climate</i> , 2003 , 16, 2932-2938	4.4	29
19	A near-annual coupled ocean-atmosphere mode in the equatorial Pacific ocean. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	30
18	Strong El Niño events and nonlinear dynamical heating. <i>Geophysical Research Letters</i> , 2003 , 30, 20-1	4.9	211
17	Symmetric and antisymmetric mass exchanges between the equatorial and off-equatorial Pacific associated with ENSO. <i>Journal of Geophysical Research</i> , 2003 , 108,		48
16	Collective Role of Thermocline and Zonal Advective Feedbacks in the ENSO Mode*. <i>Journal of Climate</i> , 2001 , 14, 3421-3432	4.4	141
15	Sensitivity of the equatorial air-sea coupled system to the zonal phase difference between SST and wind stress. <i>Advances in Atmospheric Sciences</i> , 2001 , 18, 155-165	2.9	2
14	Mechanisms of Locking of the El Niño and La Niña Mature Phases to Boreal Winter*. <i>Journal of Climate</i> , 2001 , 14, 2164-2176	4.4	82

13	Why the properties of El Niño changed during the late 1970s. <i>Geophysical Research Letters</i> , 2001 , 28, 3709-3712	4.9	118
12	Tropical Pacific basin-wide adjustment and oceanic waves. <i>Geophysical Research Letters</i> , 2001 , 28, 3975-3978	4.9	10
11	A Systematic Approximation of the SST Anomaly Equation for ENSO.. <i>Journal of the Meteorological Society of Japan</i> , 2001 , 79, 1-10	2.8	64
10	A Further Investigation of the Recharge Oscillator Paradigm for ENSO Using a Simple Coupled Model with the Zonal Mean and Eddy Separated. <i>Journal of Climate</i> , 2000 , 13, 1987-1993	4.4	23
9	On the Slow Mode of a Simple Air-sea Coupled Model. <i>Journal of the Meteorological Society of Japan</i> , 2000 , 78, 159-165	2.8	5
8	Interdecadal Change of the Structure of the ENSO Mode and Its Impact on the ENSO Frequency*. <i>Journal of Climate</i> , 2000 , 13, 2044-2055	4.4	324
7	An eigen analysis of the interdecadal changes in the structure and frequency of ENSO mode. <i>Geophysical Research Letters</i> , 2000 , 27, 2573-2576	4.9	78
6	Thermocline and Zonal Advective Feedbacks Within the Equatorial Ocean Recharge Oscillator Model for ENSO. <i>Geophysical Research Letters</i> , 1999 , 26, 2989-2992	4.9	153
5	The Role of Zonal Advection Feedback in Phase Transition and Growth of ENSO in the Cane-Zebiak Model. <i>Journal of the Meteorological Society of Japan</i> , 1999 , 77, 1151-1160	2.8	45
4	Kelvin and Rossby Wave Contributions to the SST Oscillation of ENSO. <i>Journal of Climate</i> , 1998 , 11, 2461-2469	4.4	25
3	Role of the Bay of Bengal warming in the Indian summer monsoon rainfall trend. <i>Climate Dynamics</i> , 1998 , 14, 101-110	4.2	1
2	Comparison of past and future simulations of ENSO in CMIP5/PMIP3 and CMIP6/PMIP4 models		5
1	Atmosphere-driven cold SST biases over the western North Pacific in the GloSea5 seasonal forecast system. <i>Climate Dynamics</i> , 2020 , 54, 1-15	4.2	0