Xiaopei Lin

List of Publications by Year
in descending order

95 papers	3,861 citations	257450 24 h-index	133252 59 g-index
100 all docs	100 docs citations	100 times ranked	4479 citing authors

#	Article	IF	Citations
1	Pacific western boundary currents and their roles in climate. Nature, 2015, 522, 299-308.	27.8	474
2	Pantropical climate interactions. Science, 2019, 363, .	12.6	419
3	Influence of Atlantic meridional overturning circulation on the East Asian winter monsoon. Nature Geoscience, 2012, 5, 46-49.	12.9	417
4	A sea change in our view of overturning in the subpolar North Atlantic. Science, 2019, 363, 516-521.	12.6	333
5	Western boundary currents regulated by interaction between ocean eddies and the atmosphere. Nature, 2016, 535, 533-537.	27.8	236
6	Changing El NiÃ±oâ€“Southern Oscillation in a warming climate. Nature Reviews Earth & Environment, 2021, 2, 628-644.	29.7	197
7	Continued increase of extreme ElÂNiÃ±o frequency long after 1.5â€‰Â°C warming stabilization. Nature Climate Change, 2017, 7, 568-572.	18.8	174
8	Overturning in the Subpolar North Atlantic Program: A New International Ocean Observing System. Bulletin of the American Meteorological Society, 2017, 98, 737-752.	3.3	173
9	Distant Influence of Kuroshio Eddies on North Pacific Weather Patterns?. Scientific Reports, 2015, 5, 17785.	3.3	141
10	Importance of Resolving Kuroshio Front and Eddy Influence in Simulating the North Pacific Storm Track. Journal of Climate, 2017, 30, 1861-1880.	3.2	115
11	Decadal climate variability in the tropical Pacific: Characteristics, causes, predictability, and prospects. Science, 2021, 374, eaay9165.	12.6	92
12	An asymmetric upwind flow, Yellow Sea Warm Current: 1. New observations in the western Yellow Sea. Journal of Geophysical Research, 2011, 116, .	3.3	54
13	A well-mixed warm water column in the central Bohai Sea in summer: Effects of tidal and surface wave mixing. Journal of Geophysical Research, 2006, 111, .	3.3	53
14	On the mechanism of the cyclonic circulation in the Gulf of Tonkin in the summer. Journal of Geophysical Research, 2008, 113, .	3.3	49
15	Subpolar North Atlantic western boundary density anomalies and the Meridional Overturning Circulation. Nature Communications, 2021, 12, 3002.	12.8	47
16	Modes and mechanisms of sea surface temperature lowâ€frequency variations over the coastal China seas. Journal of Geophysical Research, 2010, 115, .	3.3	41
17	Impact of mesoscale eddies on <scp>K</scp>uroshio intrusion variability northeast of <scp>T</scp>aiwan. Journal of Geophysical Research: Oceans, 2017, 122, 3021-3040.	2.6	40
18	Satellite-Observed Precipitation Response to Ocean Mesoscale Eddies. Journal of Climate, 2018, 31, 6879-6895.	3.2	35

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19	North Pacific subtropical mode water is controlled by the Atlantic Multidecadal Variability. Nature Climate Change, 2020, 10, 238-243.	18.8	32
20	Meridional heat transport variability induced by mesoscale processes in the subpolar North Atlantic. Nature Communications, 2018, 9, 1124.	12.8	29
21	Variability of surface velocity in the Kuroshio Current and adjacent waters derived from Argos drifter buoys and satellite altimeter data. Chinese Journal of Oceanology and Limnology, 2009, 27, 208-217.	0.7	27
22	The Annual Cycle of the Japan Sea Throughflow. Journal of Physical Oceanography, 2016, 46, 23-39.	1.7	27
23	Definition of Extreme El NiÃ±o and Its Impact on Projected Increase in Extreme El NiÃ±o Frequency. Geophysical Research Letters, 2017, 44, 11,184.	4.0	26
24	Evolution of the North Pacific Subtropical Mode Water in Anticyclonic Eddies. Journal of Geophysical Research: Oceans, 2017, 122, 10118-10130.	2.6	25
25	An asymmetric upwind flow, Yellow Sea Warm Current: 2. Arrested topographic waves in response to the northwesterly wind. Journal of Geophysical Research, 2011, 116, .	3.3	24
26	Seasonal variability of Kuroshio intrusion northeast of Taiwan Island as revealed by self-organizing map. Chinese Journal of Oceanology and Limnology, 2014, 32, 1435-1442.	0.7	24
27	Dynamics of an idealized B eaufort G yre: 1. T he effect of a small beta and lack of western boundaries. Journal of Geophysical Research: Oceans, 2016, 121, 1249-1261.	2.6	24
28	On the dynamics of the seasonal variation in the South China Sea throughflow transport. Journal of Geophysical Research: Oceans, 2013, 118, 6854-6866.	2.6	21
29	On the dynamics of the South China Sea Warm Current. Journal of Geophysical Research, 2008, 113, .	3.3	19
30	The inter-annual variability of the Yellow Sea Warm Current surface axis and its influencing factors. Chinese Journal of Oceanology and Limnology, 2009, 27, 607-613.	0.7	19
31	Structure and Formation of Anticyclonic Eddies in the Iceland Basin. Journal of Geophysical Research: Oceans, 2018, 123, 5341-5359.	2.6	19
32	Interannual Eddy Kinetic Energy Modulations in the Agulhas Return Current. Journal of Geophysical Research: Oceans, 2018, 123, 6449-6462.	2.6	19
33	An open-ocean forcing in the East China and Yellow seas. Journal of Geophysical Research, 2010, 115, .	3.3	18
34	Dynamics of changing impacts of tropical Indo-Pacific variability on Indian and Australian rainfall. Scientific Reports, 2016, 6, 31767.	3.3	18
35	Realism of modelled Indian summer monsoon correlation with the tropical Indo-Pacific affects projected monsoon changes. Scientific Reports, 2017, 7, 4929.	3.3	18
36	Winter Extreme Flux Events in the Kuroshio and Gulf Stream Extension Regions and Relationship with Modes of North Pacific and Atlantic Variability. Journal of Climate, 2015, 28, 4950-4970.	3.2	17

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37	East Pacific ocean eddies and their relationship to subseasonal variability in Central American wind jets. Journal of Geophysical Research, 2012, 117, .	3.3	16
38	The Asymmetric Continental Shelf Wave in Response to the Synoptic Wind Burst in a Semienclosed Doubleâ€Shelf Basin. Journal of Geophysical Research: Oceans, 2018, 123, 131-148.	2.6	16
39	Institutional coordination of global ocean observations. Nature Climate Change, 2015, 5, 4-6.	18.8	15
40	Meridional Shift of the Oyashio Extension Front in the Past 36ÂYears. Geophysical Research Letters, 2018, 45, 9042-9048.	4.0	15
41	Modelâ€based estimate of the heat budget in the East China Sea. Journal of Geophysical Research, 2010, 115, .	3.3	14
42	Poleward Shift of the Kuroshio Extension Front and Its Impact on the North Pacific Subtropical Mode Water in the Recent Decades. Journal of Physical Oceanography, 2021, 51, 457-474.	1.7	14
43	Explaining the global distribution of peakâ€spectrum variability of sea surface height. Geophysical Research Letters, 2008, 35, .	4.0	13
44	Half-Century of Scientific Advancements Since the Cooperative Study of the Kuroshio and Adjacent Regions (CSK) Programme - Need for a new Kuroshio Research. Progress in Oceanography, 2021, 193, 102513.	3.2	12
45	An Amplification Mechanism of Intraseasonal Long Rossby Wave in Subtropical Ocean. Journal of Oceanography, 2005, 61, 369-378.	1.7	11
46	On the seasonal variability of the Oyashio extension fronts. Climate Dynamics, 2019, 53, 7011-7025.	3.8	11
47	Decadal to Multidecadal Variability of the Mixed Layer to the South of the Kuroshio Extension Region. Journal of Climate, 2020, 33, 7697-7714.	3.2	11
48	Windâ€driven exchanges between two basins: Some topographic and latitudinal effects. Journal of Geophysical Research: Oceans, 2013, 118, 4585-4599.	2.6	10
49	Estimating Convection Parameters in the GFDL CM2.1 Model Using Ensemble Data Assimilation. Journal of Advances in Modeling Earth Systems, 2018, 10, 989-1010.	3.8	10
50	Atmospheric Forcing of the Pacific Meridional Mode: Tropical Pacificâ€Driven Versus Internal Variability. Geophysical Research Letters, 2022, 49, .	4.0	10
51	On the mechanism of seasonal variation of the Tsushima Warm Current. Continental Shelf Research, 2012, 48, 1-7.	1.8	9
52	The preliminary study of the high chlorophyll in the central Bohai Sea in summer. Acta Oceanologica Sinica, 2012, 31, 66-72.	1.0	9
53	The Kuroshio Extension: a leading mechanism for the seasonal sea-level variability along the west coast of Japan. Ocean Dynamics, 2010, 60, 667-672.	2.2	8
54	A Multiâ€Timescale EnOIâ€Like Highâ€Efficiency Approximate Filter for Coupled Model Data Assimilation. Journal of Advances in Modeling Earth Systems, 2019, 11, 45-63.	3.8	8

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55	An Examination of the Predictability of Tropical Cyclone Genesis in High-Resolution Coupled Models with Dynamically Downscaled Coupled Data Assimilation Initialization. Advances in Atmospheric Sciences, 2020, 37, 939-950.	4.3	8
56	Synchronized tropical Pacific and extratropical variability during the past three decades. Nature Climate Change, 2020, 10, 422-427.	18.8	8
57	Pacific Meridional Modes without Equatorial Pacific Influence. Journal of Climate, 2021, , 1-51.	3.2	7
58	Study of the air-sea interaction during Typhoon Kaemi (2006). Journal of Meteorological Research, 2011, 25, 625-638.	1.0	6
59	A mechanism for the latitudinal dependence of peakâ€spectrum sea surface height variability. Journal of Geophysical Research: Oceans, 2014, 119, 1431-1444.	2.6	6
60	Seasonal variations of air-sea heat fluxes and sea surface temperature in the northwestern Pacific marginal seas. Acta Oceanologica Sinica, 2014, 33, 101-110.	1.0	6
61	A Transbasin Mode of Interannual Variability of the Central American Gap Winds: Seasonality and Large-Scale Forcing. Journal of Climate, 2017, 30, 8223-8235.	3.2	6
62	Decadal Variability of North Pacific Eastern Subtropical Mode Water. Journal of Geophysical Research: Oceans, 2018, 123, 6189-6206.	2.6	6
63	Enhanced Eastern Pacific ENSOâ€Tropical North Atlantic Connection Under Greenhouse Warming. Geophysical Research Letters, 2021, 48, e2021GL095332.	4.0	6
64	Optimal Growth of IPV Lags AMV Modulations by up to a Decade. Geophysical Research Letters, 2021, 48, .	4.0	6
65	Statistical analyses of sea state conditions in South China Sea. Journal of Ocean University of China, 2017, 16, 357-369.	1.2	5
66	Seasonality of the Kuroshio intensity east of Taiwan modulated by mesoscale eddies. Journal of Marine Systems, 2019, 193, 84-93.	2.1	5
67	Salt Sinking in the Upper South Pacific Subtropical Gyre From 2004 to 2016. Journal of Geophysical Research: Oceans, 2019, 124, 7011-7029.	2.6	4
68	Contribution of SST change to multidecadal global and continental surface air temperature trends between 1910 and 2013. Climate Dynamics, 2020, 54, 1295-1313.	3.8	4
69	Decadal to Multidecadal Variability of the Western North Pacific Subtropical Front and Countercurrent. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	4
70	The South Pacific Subtropical Mode Water in the Tasman Sea. Journal of Ocean University of China, 2007, 6, 107-116.	1.2	3
71	Heat budget of the western Pacific warm pool and the contribution of eddy heat transport diagnosed from HYCOM assimilation. Journal of Oceanography, 2017, 73, 193-203.	1.7	3
72	Recent Decadal Change in the North Atlantic Subtropical Underwater Associated With the Poleward Expansion of the Surface Salinity Maximum. Journal of Geophysical Research: Oceans, 2019, 124, 4433-4448.	2.6	3

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73	Seasonal response of surface wind to SST perturbation in the Northern Hemisphere. Journal of Oceanology and Limnology, 2019, 37, 1165-1175.	1.3	3
74	Experimental Investigation of Effects of Polishing Process on Surface Residual Stress of TC4 Blade Based on Sensitivity Analysis. Experimental Techniques, 2019, 43, 729-738.	1.5	3
75	Seasonal and Interannual Variability of the Meridional Overturning Circulation in the Subpolar North Atlantic Diagnosed From a High Resolution Reanalysis Data Set. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC017130.	2.6	3
76	Impact of Coherent Ocean Stratification on AMOC Reconstruction by Coupled Data Assimilation with a Biased Model. Journal of Climate, 2020, 33, 7319-7334.	3.2	3
77	Sea experiments of the Underway Conductivity-Temperature-Depth prototype made in China. Journal of Ocean University of China, 2009, 8, 409-415.	1.2	2
78	Wind Energy Potentials and Its Trend in the South China Sea. Energy and Environment Research, 2016, 6, 36.	0.2	2
79	Insights on the role of accurate state estimation in coupled model parameter estimation by a conceptual climate model study. Nonlinear Processes in Geophysics, 2017, 24, 125-139.	1.3	2
80	Upper-ocean temperature trends in the Eastern China Seas during 1976â€“1996. Journal of Oceanology and Limnology, 2018, 36, 1527-1536.	1.3	2
81	Subtropical countercurrent variations in cooling climates induced by freshwater forcing over the subarctic North Atlantic. Climate Dynamics, 2019, 52, 2799-2812.	3.8	2
82	Co-variation of the surface wind speed and the sea surface temperature over mesoscale eddies in the Gulf Stream region: momentum vertical mixing aspect. Journal of Oceanology and Limnology, 2019, 37, 1154-1164.	1.3	2
83	Interannual Variability of Tropical Atlantic-to-Pacific Moisture Transport Linked to ENSO, Atlantic NiÃ±o, and Freshwater Budget in the Northwestern Tropical Atlantic. Journal of Climate, 2021, , 1-61.	3.2	2
84	Characteristics of 3â€Dimensional Structure and Heat Budget of Mesoscale Eddies in the South Atlantic Ocean. Journal of Geophysical Research: Oceans, 2021, 126, e2020JC016922.	2.6	2
85	Unusual Crossâ€Shelf Transport Driven by the Changes of Wind Pattern in a Marginal Sea. Journal of Geophysical Research: Oceans, 2021, 126, e2021JC017526.	2.6	2
86	Role of ocean dynamics in equatorial Pacific decadal variability. Climate Dynamics, 2022, 59, 2517-2529.	3.8	2
87	An online ensemble coupled data assimilation capability for the Community Earth System Model: system design and evaluation. Geoscientific Model Development, 2022, 15, 4805-4830.	3.6	2
88	A further investigation of the decadal variation of ENSO characteristics with instability analysis. Advances in Atmospheric Sciences, 2006, 23, 156-164.	4.3	1
89	Quantifying the non-conservative production of potential temperature over the past 22 000 years. Journal of Oceanology and Limnology, 2019, 37, 410-422.	1.3	1
90	Weakened ENSOâ€Ningaloo NiÃ±o/NiÃ±a Teleconnection Under Greenhouse Warming. Geophysical Research Letters, 2021, 48, e2020GL091326.	4.0	1

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91	Adiabatic Processes Contribute to the Rapid Warming of Subpolar North Atlantic During 1993â€“2010. Journal of Geophysical Research: Oceans, 2022, 127, .	2.6	1
92	Seasonal variation of the barrier layer in the PN section. Chinese Journal of Oceanology and Limnology, 2009, 27, 192-201.	0.7	0
93	The effect of regional ocean-atmosphere coupling on the long-term variability in the Pacific Ocean. Advances in Atmospheric Sciences, 2010, 27, 393-402.	4.3	0
94	Contributions of the Bering Strait throughflow to oceanic meridional heat transport under modern and Last Glacial Maximum climate conditions. Journal of Oceanology and Limnology, 2019, 37, 398-409.	1.3	0
95	Association between hospitalizations for asthma exacerbation and weather conditions in Qingdao: an ecological study. Annals of Translational Medicine, 2022, 10, 420-420.	1.7	0