

Xiaopei Lin

List of Publications by Year in descending order

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95
papers

3,861
citations

257101

24
h-index

133063

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. <i>Nature</i> , 2015, 522, 299-308.	13.7	474
2	Pantropical climate interactions. <i>Science</i> , 2019, 363, .	6.0	419
3	Influence of Atlantic meridional overturning circulation on the East Asian winter monsoon. <i>Nature Geoscience</i> , 2012, 5, 46-49.	5.4	417
4	A sea change in our view of overturning in the subpolar North Atlantic. <i>Science</i> , 2019, 363, 516-521.	6.0	333
5	Western boundary currents regulated by interaction between ocean eddies and the atmosphere. <i>Nature</i> , 2016, 535, 533-537.	13.7	236
6	Changing El Niño–Southern Oscillation in a warming climate. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 628-644.	12.2	197
7	Continued increase of extreme El Niño frequency long after 1.5°C warming stabilization. <i>Nature Climate Change</i> , 2017, 7, 568-572.	8.1	174
8	Overturning in the Subpolar North Atlantic Program: A New International Ocean Observing System. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 737-752.	1.7	173
9	Distant Influence of Kuroshio Eddies on North Pacific Weather Patterns?. <i>Scientific Reports</i> , 2015, 5, 17785.	1.6	141
10	Importance of Resolving Kuroshio Front and Eddy Influence in Simulating the North Pacific Storm Track. <i>Journal of Climate</i> , 2017, 30, 1861-1880.	1.2	115
11	Decadal climate variability in the tropical Pacific: Characteristics, causes, predictability, and prospects. <i>Science</i> , 2021, 374, eaay9165.	6.0	92
12	An asymmetric upwind flow, Yellow Sea Warm Current: 1. New observations in the western Yellow Sea. <i>Journal of Geophysical Research</i> , 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. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	53
14	On the mechanism of the cyclonic circulation in the Gulf of Tonkin in the summer. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	49
15	Subpolar North Atlantic western boundary density anomalies and the Meridional Overturning Circulation. <i>Nature Communications</i> , 2021, 12, 3002.	5.8	47
16	Modes and mechanisms of sea surface temperature low-frequency variations over the coastal China seas. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	41
17	Impact of mesoscale eddies on Kuroshio intrusion variability northeast of Taiwan. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 3021-3040.	1.0	40
18	Satellite-Observed Precipitation Response to Ocean Mesoscale Eddies. <i>Journal of Climate</i> , 2018, 31, 6879-6895.	1.2	35

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19	North Pacific subtropical mode water is controlled by the Atlantic Multidecadal Variability. <i>Nature Climate Change</i> , 2020, 10, 238-243.	8.1	32
20	Meridional heat transport variability induced by mesoscale processes in the subpolar North Atlantic. <i>Nature Communications</i> , 2018, 9, 1124.	5.8	29
21	Variability of surface velocity in the Kuroshio Current and adjacent waters derived from Argos drifter buoys and satellite altimeter data. <i>Chinese Journal of Oceanology and Limnology</i> , 2009, 27, 208-217.	0.7	27
22	The Annual Cycle of the Japan Sea Throughflow. <i>Journal of Physical Oceanography</i> , 2016, 46, 23-39.	0.7	27
23	Definition of Extreme El Niño and Its Impact on Projected Increase in Extreme El Niño Frequency. <i>Geophysical Research Letters</i> , 2017, 44, 11,184.	1.5	26
24	Evolution of the North Pacific Subtropical Mode Water in Anticyclonic Eddies. <i>Journal of Geophysical Research: Oceans</i> , 2017, 122, 10118-10130.	1.0	25
25	An asymmetric upwind flow, Yellow Sea Warm Current: 2. Arrested topographic waves in response to the northwesterly wind. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	24
26	Seasonal variability of Kuroshio intrusion northeast of Taiwan Island as revealed by self-organizing map. <i>Chinese Journal of Oceanology and Limnology</i> , 2014, 32, 1435-1442.	0.7	24
27	Dynamics of an idealized Beaufort Gyre: 1. The effect of a small beta and lack of western boundaries. <i>Journal of Geophysical Research: Oceans</i> , 2016, 121, 1249-1261.	1.0	24
28	On the dynamics of the seasonal variation in the South China Sea throughflow transport. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 6854-6866.	1.0	21
29	On the dynamics of the South China Sea Warm Current. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	19
30	The inter-annual variability of the Yellow Sea Warm Current surface axis and its influencing factors. <i>Chinese Journal of Oceanology and Limnology</i> , 2009, 27, 607-613.	0.7	19
31	Structure and Formation of Anticyclonic Eddies in the Iceland Basin. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 5341-5359.	1.0	19
32	Interannual Eddy Kinetic Energy Modulations in the Agulhas Return Current. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 6449-6462.	1.0	19
33	An open-ocean forcing in the East China and Yellow seas. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	18
34	Dynamics of changing impacts of tropical Indo-Pacific variability on Indian and Australian rainfall. <i>Scientific Reports</i> , 2016, 6, 31767.	1.6	18
35	Realism of modelled Indian summer monsoon correlation with the tropical Indo-Pacific affects projected monsoon changes. <i>Scientific Reports</i> , 2017, 7, 4929.	1.6	18
36	Winter Extreme Flux Events in the Kuroshio and Gulf Stream Extension Regions and Relationship with Modes of North Pacific and Atlantic Variability. <i>Journal of Climate</i> , 2015, 28, 4950-4970.	1.2	17

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37	East Pacific ocean eddies and their relationship to subseasonal variability in Central American wind jets. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	16
38	The Asymmetric Continental Shelf Wave in Response to the Synoptic Wind Burst in a Semienclosed Doubleâ€šShelf Basin. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 131-148.	1.0	16
39	Institutional coordination of global ocean observations. <i>Nature Climate Change</i> , 2015, 5, 4-6.	8.1	15
40	Meridional Shift of the Oyashio Extension Front in the Past 36ÂˆYears. <i>Geophysical Research Letters</i> , 2018, 45, 9042-9048.	1.5	15
41	Modelâ€šbased estimate of the heat budget in the East China Sea. <i>Journal of Geophysical Research</i> , 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. <i>Journal of Physical Oceanography</i> , 2021, 51, 457-474.	0.7	14
43	Explaining the global distribution of peakâ€šspectrum variability of sea surface height. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	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. <i>Progress in Oceanography</i> , 2021, 193, 102513.	1.5	12
45	An Amplification Mechanism of Intraseasonal Long Rossby Wave in Subtropical Ocean. <i>Journal of Oceanography</i> , 2005, 61, 369-378.	0.7	11
46	On the seasonal variability of the Oyashio extension fronts. <i>Climate Dynamics</i> , 2019, 53, 7011-7025.	1.7	11
47	Decadal to Multidecadal Variability of the Mixed Layer to the South of the Kuroshio Extension Region. <i>Journal of Climate</i> , 2020, 33, 7697-7714.	1.2	11
48	Windâ€šdriven exchanges between two basins: Some topographic and latitudinal effects. <i>Journal of Geophysical Research: Oceans</i> , 2013, 118, 4585-4599.	1.0	10
49	Estimating Convection Parameters in the GFDL CM2.1 Model Using Ensemble Data Assimilation. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 989-1010.	1.3	10
50	Atmospheric Forcing of the Pacific Meridional Mode: Tropical Pacificâ€šDriven Versus Internal Variability. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	10
51	On the mechanism of seasonal variation of the Tsushima Warm Current. <i>Continental Shelf Research</i> , 2012, 48, 1-7.	0.9	9
52	The preliminary study of the high chlorophyll in the central Bohai Sea in summer. <i>Acta Oceanologica Sinica</i> , 2012, 31, 66-72.	0.4	9
53	The Kuroshio Extension: a leading mechanism for the seasonal sea-level variability along the west coast of Japan. <i>Ocean Dynamics</i> , 2010, 60, 667-672.	0.9	8
54	A Multiâ€štimescale EnOlâ€šLike Highâ€šEfficiency Approximate Filter for Coupled Model Data Assimilation. <i>Journal of Advances in Modeling Earth Systems</i> , 2019, 11, 45-63.	1.3	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. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 939-950.	1.9	8
56	Synchronized tropical Pacific and extratropical variability during the past three decades. <i>Nature Climate Change</i> , 2020, 10, 422-427.	8.1	8
57	Pacific Meridional Modes without Equatorial Pacific Influence. <i>Journal of Climate</i> , 2021, , 1-51.	1.2	7
58	Study of the air-sea interaction during Typhoon Kaemi (2006). <i>Journal of Meteorological Research</i> , 2011, 25, 625-638.	1.0	6
59	A mechanism for the latitudinal dependence of peakâ€spectrum sea surface height variability. <i>Journal of Geophysical Research: Oceans</i> , 2014, 119, 1431-1444.	1.0	6
60	Seasonal variations of air-sea heat fluxes and sea surface temperature in the northwestern Pacific marginal seas. <i>Acta Oceanologica Sinica</i> , 2014, 33, 101-110.	0.4	6
61	A Transbasin Mode of Interannual Variability of the Central American Gap Winds: Seasonality and Large-Scale Forcing. <i>Journal of Climate</i> , 2017, 30, 8223-8235.	1.2	6
62	Decadal Variability of North Pacific Eastern Subtropical Mode Water. <i>Journal of Geophysical Research: Oceans</i> , 2018, 123, 6189-6206.	1.0	6
63	Enhanced Eastern Pacific ENSOâ€Tropical North Atlantic Connection Under Greenhouse Warming. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095332.	1.5	6
64	Optimal Growth of IPV Lags AMV Modulations by up to a Decade. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	6
65	Statistical analyses of sea state conditions in South China Sea. <i>Journal of Ocean University of China</i> , 2017, 16, 357-369.	0.6	5
66	Seasonality of the Kuroshio intensity east of Taiwan modulated by mesoscale eddies. <i>Journal of Marine Systems</i> , 2019, 193, 84-93.	0.9	5
67	Salt Sinking in the Upper South Pacific Subtropical Gyre From 2004 to 2016. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 7011-7029.	1.0	4
68	Contribution of SST change to multidecadal global and continental surface air temperature trends between 1910 and 2013. <i>Climate Dynamics</i> , 2020, 54, 1295-1313.	1.7	4
69	Decadal to Multidecadal Variability of the Western North Pacific Subtropical Front and Countercurrent. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	4
70	The South Pacific Subtropical Mode Water in the Tasman Sea. <i>Journal of Ocean University of China</i> , 2007, 6, 107-116.	0.6	3
71	Heat budget of the western Pacific warm pool and the contribution of eddy heat transport diagnosed from HYCOM assimilation. <i>Journal of Oceanography</i> , 2017, 73, 193-203.	0.7	3
72	Recent Decadal Change in the North Atlantic Subtropical Underwater Associated With the Poleward Expansion of the Surface Salinity Maximum. <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 4433-4448.	1.0	3

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73	Seasonal response of surface wind to SST perturbation in the Northern Hemisphere. <i>Journal of Oceanology and Limnology</i> , 2019, 37, 1165-1175.	0.6	3
74	Experimental Investigation of Effects of Polishing Process on Surface Residual Stress of TC4 Blade Based on Sensitivity Analysis. <i>Experimental Techniques</i> , 2019, 43, 729-738.	0.9	3
75	Seasonal and Interannual Variability of the Meridional Overturning Circulation in the Subpolar North Atlantic Diagnosed From a High Resolution Reanalysis Data Set. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC017130.	1.0	3
76	Impact of Coherent Ocean Stratification on AMOC Reconstruction by Coupled Data Assimilation with a Biased Model. <i>Journal of Climate</i> , 2020, 33, 7319-7334.	1.2	3
77	Sea experiments of the Underway Conductivity-Temperature-Depth prototype made in China. <i>Journal of Ocean University of China</i> , 2009, 8, 409-415.	0.6	2
78	Wind Energy Potentials and Its Trend in the South China Sea. <i>Energy and Environment Research</i> , 2016, 6, 36.	0.1	2
79	Insights on the role of accurate state estimation in coupled model parameter estimation by a conceptual climate model study. <i>Nonlinear Processes in Geophysics</i> , 2017, 24, 125-139.	0.6	2
80	Upper-ocean temperature trends in the Eastern China Seas during 1976–1996. <i>Journal of Oceanology and Limnology</i> , 2018, 36, 1527-1536.	0.6	2
81	Subtropical countercurrent variations in cooling climates induced by freshwater forcing over the subarctic North Atlantic. <i>Climate Dynamics</i> , 2019, 52, 2799-2812.	1.7	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. <i>Journal of Oceanology and Limnology</i> , 2019, 37, 1154-1164.	0.6	2
83	Interannual Variability of Tropical Atlantic-to-Pacific Moisture Transport Linked to ENSO, Atlantic Niño, and Freshwater Budget in the Northwestern Tropical Atlantic. <i>Journal of Climate</i> , 2021, , 1-61.	1.2	2
84	Characteristics of 3-Dimensional Structure and Heat Budget of Mesoscale Eddies in the South Atlantic Ocean. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2020JC016922.	1.0	2
85	Unusual Cross-Shelf Transport Driven by the Changes of Wind Pattern in a Marginal Sea. <i>Journal of Geophysical Research: Oceans</i> , 2021, 126, e2021JC017526.	1.0	2
86	Role of ocean dynamics in equatorial Pacific decadal variability. <i>Climate Dynamics</i> , 2022, 59, 2517-2529.	1.7	2
87	An online ensemble coupled data assimilation capability for the Community Earth System Model: system design and evaluation. <i>Geoscientific Model Development</i> , 2022, 15, 4805-4830.	1.3	2
88	A further investigation of the decadal variation of ENSO characteristics with instability analysis. <i>Advances in Atmospheric Sciences</i> , 2006, 23, 156-164.	1.9	1
89	Quantifying the non-conservative production of potential temperature over the past 22 000 years. <i>Journal of Oceanology and Limnology</i> , 2019, 37, 410-422.	0.6	1
90	Weakened ENSO–Niño/Niña Teleconnection Under Greenhouse Warming. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091326.	1.5	1

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91	Adiabatic Processes Contribute to the Rapid Warming of Subpolar North Atlantic During 1993â€“2010. <i>Journal of Geophysical Research: Oceans</i> , 2022, 127, .	1.0	1
92	Seasonal variation of the barrier layer in the PN section. <i>Chinese Journal of Oceanology and Limnology</i> , 2009, 27, 192-201.	0.7	0
93	The effect of regional ocean-atmosphere coupling on the long-term variability in the Pacific Ocean. <i>Advances in Atmospheric Sciences</i> , 2010, 27, 393-402.	1.9	0
94	Contributions of the Bering Strait throughflow to oceanic meridional heat transport under modern and Last Glacial Maximum climate conditions. <i>Journal of Oceanology and Limnology</i> , 2019, 37, 398-409.	0.6	0
95	Association between hospitalizations for asthma exacerbation and weather conditions in Qingdao: an ecological study. <i>Annals of Translational Medicine</i> , 2022, 10, 420-420.	0.7	0