

Lantao Sun

List of Publications by Year in descending order

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Version: 2024-02-01

43
papers

2,448
citations

257101

24
h-index

253896

43
g-index

50
all docs

50
docs citations

50
times ranked

2085
citing authors

#	ARTICLE	IF	CITATIONS
1	Consistency and discrepancy in the atmospheric response to Arctic sea-ice loss across climate models. <i>Nature Geoscience</i> , 2018, 11, 155-163.	5.4	265
2	What caused the recent “Warm Arctic, Cold Continents” trend pattern in winter temperatures?. <i>Geophysical Research Letters</i> , 2016, 43, 5345-5352.	1.5	245
3	The Role of Ocean–Atmosphere Coupling in the Zonal-Mean Atmospheric Response to Arctic Sea Ice Loss. <i>Journal of Climate</i> , 2015, 28, 2168-2186.	1.2	244
4	Mechanisms of Stratospheric and Tropospheric Circulation Response to Projected Arctic Sea Ice Loss*. <i>Journal of Climate</i> , 2015, 28, 7824-7845.	1.2	204
5	Does ocean coupling matter for the northern extratropical response to projected Arctic sea ice loss?. <i>Geophysical Research Letters</i> , 2016, 43, 2149-2157.	1.5	133
6	Evolution of the Global Coupled Climate Response to Arctic Sea Ice Loss during 1990–2090 and Its Contribution to Climate Change. <i>Journal of Climate</i> , 2018, 31, 7823-7843.	1.2	126
7	Reduced Risk of North American Cold Extremes due to Continued Arctic Sea Ice Loss. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1489-1503.	1.7	108
8	The Role of Ocean Heat Transport in the Global Climate Response to Projected Arctic Sea Ice Loss. <i>Journal of Climate</i> , 2016, 29, 6841-6859.	1.2	103
9	Initialized Earth System prediction from subseasonal to decadal timescales. <i>Nature Reviews Earth & Environment</i> , 2021, 2, 340-357.	12.2	85
10	Distinguishing Stratospheric Sudden Warmings from ENSO as Key Drivers of Wintertime Climate Variability over the North Atlantic and Eurasia. <i>Journal of Climate</i> , 2017, 30, 1959-1969.	1.2	77
11	Tropical climate responses to projected Arctic and Antarctic sea-ice loss. <i>Nature Geoscience</i> , 2020, 13, 275-281.	5.4	76
12	Projected changes in regional climate extremes arising from Arctic sea ice loss. <i>Environmental Research Letters</i> , 2015, 10, 084006.	2.2	59
13	Sensitivities and Mechanisms of the Zonal Mean Atmospheric Circulation Response to Tropical Warming. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 2487-2504.	0.6	54
14	Fast Response of the Tropics to an Abrupt Loss of Arctic Sea Ice via Ocean Dynamics. <i>Geophysical Research Letters</i> , 2018, 45, 4264-4272.	1.5	53
15	The role of synoptic eddies in the tropospheric response to stratospheric variability. <i>Geophysical Research Letters</i> , 2013, 40, 4933-4937.	1.5	48
16	Effects of stratospheric variability on El Niño teleconnections. <i>Environmental Research Letters</i> , 2015, 10, 124021.	2.2	47
17	The Role of Subtropical Irreversible PV Mixing in the Zonal Mean Circulation Response to Global Warming–Like Thermal Forcing. <i>Journal of Climate</i> , 2014, 27, 2297-2316.	1.2	44
18	Contrasting the Antarctic and Arctic Atmospheric Responses to Projected Sea Ice Loss in the Late Twenty-First Century. <i>Journal of Climate</i> , 2018, 31, 6353-6370.	1.2	43

#	ARTICLE	IF	CITATIONS
19	Delineating the Eddyâ€Zonal Flow Interaction in the Atmospheric Circulation Response to Climate Forcing: Uniform SST Warming in an Idealized Aquaplanet Model. <i>Journals of the Atmospheric Sciences</i> , 2013, 70, 2214-2233.	0.6	32
20	The Role of Stratospheric Polar Vortex Breakdown in Southern Hemisphere Climate Trends. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 2335-2353.	0.6	32
21	Mechanisms of the Tropical Upwelling Branch of the Brewerâ€Dobson Circulation: The Role of Extratropical Waves. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 2878-2892.	0.6	31
22	Downward influence of stratospheric final warming events in an idealized model. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	28
23	Robust winter warming over Eurasia under stratospheric sulfate geoengineering â€ the role of stratospheric dynamics. <i>Atmospheric Chemistry and Physics</i> , 2021, 21, 6985-6997.	1.9	28
24	The Predictability of Stratospheric Warming Events: More from the Troposphere or the Stratosphere?. <i>Journals of the Atmospheric Sciences</i> , 2012, 69, 768-783.	0.6	27
25	Local increase of anticyclonic wave activity over northern Eurasia under amplified Arctic warming. <i>Geophysical Research Letters</i> , 2017, 44, 3299-3308.	1.5	23
26	Global Coupled Climate Response to Polar Sea Ice Loss: Evaluating the Effectiveness of Different Iceâ€Constraining Approaches. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085788.	1.5	22
27	Influence of projected Arctic sea ice loss on polar stratospheric ozone and circulation in spring. <i>Environmental Research Letters</i> , 2014, 9, 084016.	2.2	20
28	Is There a Tropical Response to Recent Observed Southern Ocean Cooling?. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091235.	1.5	20
29	Robust Arctic warming caused by projected Antarctic sea ice loss. <i>Environmental Research Letters</i> , 2020, 15, 104005.	2.2	20
30	Drivers of 2016 record Arctic warmth assessed using climate simulations subjected to Factual and Counterfactual forcing. <i>Weather and Climate Extremes</i> , 2018, 19, 1-9.	1.6	18
31	Subseasonal Earth System Prediction with CESM2. <i>Weather and Forecasting</i> , 2022, 37, 797-815.	0.5	18
32	The Role of Planetary Waves in the Downward Influence of Stratospheric Final Warming Events. <i>Journals of the Atmospheric Sciences</i> , 2011, 68, 2826-2843.	0.6	17
33	Barotropic and Baroclinic Eddy Feedbacks in the Midlatitude Jet Variability and Responses to Climate Changeâ€Like Thermal Forcings. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 111-132.	0.6	14
34	Separating the Mechanisms of Transient Responses to Stratospheric Ozone Depletionâ€Like Cooling in an Idealized Atmospheric Model. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 763-773.	0.6	12
35	Uncertainty in the Winter Tropospheric Response to Arctic Sea Ice Loss: The Role of Stratospheric Polar Vortex Internal Variability. <i>Journal of Climate</i> , 2022, 35, 3109-3130.	1.2	12
36	Opposite Responses of the Dry and Moist Eddy Heat Transport Into the Arctic in the PAMIP Experiments. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL089990.	1.5	11

#	ARTICLE	IF	CITATIONS
37	Subseasonal Prediction with and without a Well-Represented Stratosphere in CESM1. <i>Weather and Forecasting</i> , 2020, 35, 2589-2602.	0.5	10
38	Strengthened Causal Connections Between the MJO and the North Atlantic With Climate Warming. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091168.	1.5	9
39	Separating the Influences of Low-Latitude Warming and Sea Ice Loss on Northern Hemisphere Climate Change. <i>Journal of Climate</i> , 2022, 35, 2327-2349.	1.2	9
40	Distinct North American Cooling Signatures Following the Zonally Symmetric and Asymmetric Modes of Winter Stratospheric Variability. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
41	How well do we know the surface impact of sudden stratospheric warmings?. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095493.	1.5	5
42	The Simulated Atmospheric Response to Western North Pacific Sea Surface Temperature Anomalies. <i>Journal of Climate</i> , 2022, 35, 3335-3352.	1.2	5
43	Attribution of NAO Predictive Skill Beyond 2 Weeks in Boreal Winter. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090451.	1.5	4