

Ngar-Cheung Lau

List of Publications by Year in descending order

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90
papers

14,003
citations

50276

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docs citations

90
times ranked

8599
citing authors

#	ARTICLE	IF	CITATIONS
1	Model Projections of an Imminent Transition to a More Arid Climate in Southwestern North America. <i>Science</i> , 2007, 316, 1181-1184.	12.6	1,792
2	The Atmospheric Bridge: The Influence of ENSO Teleconnections on Air–Sea Interaction over the Global Oceans. <i>Journal of Climate</i> , 2002, 15, 2205-2231.	3.2	1,505
3	Progress during TOGA in understanding and modeling global teleconnections associated with tropical sea surface temperatures. <i>Journal of Geophysical Research</i> , 1998, 103, 14291-14324.	3.3	1,388
4	Remote Sea Surface Temperature Variations during ENSO: Evidence for a Tropical Atmospheric Bridge. <i>Journal of Climate</i> , 1999, 12, 917-932.	3.2	1,235
5	Variability of the Observed Midlatitude Storm Tracks in Relation to Low-Frequency Changes in the Circulation Pattern. <i>Journals of the Atmospheric Sciences</i> , 1988, 45, 2718-2743.	1.7	533
6	An Observational Study of the Northern Hemisphere Wintertime Circulation. <i>Journals of the Atmospheric Sciences</i> , 1977, 34, 1040-1053.	1.7	475
7	Impact of ENSO on the Variability of the Asian–Australian Monsoons as Simulated in GCM Experiments. <i>Journal of Climate</i> , 2000, 13, 4287-4309.	3.2	430
8	The Role of the “Atmospheric Bridge” in Linking Tropical Pacific ENSO Events to Extratropical SST Anomalies. <i>Journal of Climate</i> , 1996, 9, 2036-2057.	3.2	406
9	Atmosphere–Ocean Variations in the Indo-Pacific Sector during ENSO Episodes. <i>Journal of Climate</i> , 2003, 16, 3-20.	3.2	395
10	GFDL's CM2 Global Coupled Climate Models. Part III: Tropical Pacific Climate and ENSO. <i>Journal of Climate</i> , 2006, 19, 698-722.	3.2	322
11	A Modeling Study of the Relative Roles of Tropical and Extratropical SST Anomalies in the Variability of the Global Atmosphere–Ocean System. <i>Journal of Climate</i> , 1994, 7, 1184-1207.	3.2	308
12	Transient Eddy Forcing of the Time-Mean Flow as Identified by Geopotential Tendencies. <i>Journals of the Atmospheric Sciences</i> , 1984, 41, 313-328.	1.7	253
13	Origin of seasonal predictability for summer climate over the Northwestern Pacific. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2013, 110, 7574-7579.	7.1	253
14	Observed Structure and Propagation Characteristics of Tropical Summertime Synoptic Scale Disturbances. <i>Monthly Weather Review</i> , 1990, 118, 1888-1913.	1.4	243
15	Interactions between Global SST Anomalies and the Midlatitude Atmospheric Circulation. <i>Bulletin of the American Meteorological Society</i> , 1997, 78, 21-33.	3.3	241
16	Heat Waves in Southern China: Synoptic Behavior, Long-Term Change, and Urbanization Effects. <i>Journal of Climate</i> , 2017, 30, 703-720.	3.2	223
17	Modeling the Seasonal Dependence of the Atmospheric Response to Observed El Niño in 1962–76. <i>Monthly Weather Review</i> , 1985, 113, 1970-1996.	1.4	218
18	A Model Study of Heat Waves over North America: Meteorological Aspects and Projections for the Twenty-First Century. <i>Journal of Climate</i> , 2012, 25, 4761-4784.	3.2	184

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19	Variability of the Baroclinic and Barotropic Transient Eddy Forcing Associated with Monthly Changes in the Midlatitude Storm Tracks. <i>Journals of the Atmospheric Sciences</i> , 1991, 48, 2589-2613.	1.7	173
20	Increasing Heat Stress in Urban Areas of Eastern China: Acceleration by Urbanization. <i>Geophysical Research Letters</i> , 2018, 45, 13,060.	4.0	131
21	Coupled GCM Simulation of Atmosphere–Ocean Variability Associated with Zonally Asymmetric SST Changes in the Tropical Indian Ocean. <i>Journal of Climate</i> , 2004, 17, 245-265.	3.2	125
22	Model Simulation and Projection of European Heat Waves in Present-Day and Future Climates. <i>Journal of Climate</i> , 2014, 27, 3713-3730.	3.2	120
23	A Diagnostic Study of Recurrent Meteorological Anomalies Appearing in a 15-Year Simulation with a GFDL General Circulation Model. <i>Monthly Weather Review</i> , 1981, 109, 2287-2311.	1.4	118
24	A General Circulation Model Study of the Atmospheric Response to Extratropical SST Anomalies Observed in 1950–79. <i>Journal of Climate</i> , 1990, 3, 965-989.	3.2	118
25	Seasonality and Predictability of the Indian Ocean Dipole Mode: ENSO Forcing and Internal Variability. <i>Journal of Climate</i> , 2015, 28, 8021-8036.	3.2	114
26	Impact of ENSO on SST Variability in the North Pacific and North Atlantic: Seasonal Dependence and Role of Extratropical Sea–Air Coupling. <i>Journal of Climate</i> , 2001, 14, 2846-2866.	3.2	109
27	Impact of ENSO on the Atmospheric Variability over the North Atlantic in Late Winter—Role of Transient Eddies. <i>Journal of Climate</i> , 2012, 25, 320-342.	3.2	109
28	Influences of ENSO-Induced Indo–Western Pacific SST Anomalies on Extratropical Atmospheric Variability during the Boreal Summer. <i>Journal of Climate</i> , 2005, 18, 2922-2942.	3.2	104
29	ENSO Modulation of the Interannual and Intraseasonal Variability of the East Asian Monsoon—A Model Study. <i>Journal of Climate</i> , 2006, 19, 4508-4530.	3.2	100
30	Elevated increases in human-perceived temperature under climate warming. <i>Nature Climate Change</i> , 2018, 8, 43-47.	18.8	100
31	On the Distribution of Horizontal Transports by Transient Eddies in the Northern Hemisphere Wintertime Circulation'. <i>Journals of the Atmospheric Sciences</i> , 1979, 36, 1844-1861.	1.7	98
32	The Structure and Energetics of Midlatitude Disturbances Accompanying Cold-Air Outbreaks over East Asia. <i>Monthly Weather Review</i> , 1984, 112, 1309-1327.	1.4	94
33	Urban Expansion and Drying Climate in an Urban Agglomeration of East China. <i>Geophysical Research Letters</i> , 2019, 46, 6868-6877.	4.0	94
34	An Analysis of the Warm-Season Diurnal Cycle over the Continental United States and Northern Mexico in General Circulation Models. <i>Journal of Hydrometeorology</i> , 2007, 8, 344-366.	1.9	93
35	The General Circulation Model Response to a North Pacific SST Anomaly: Dependence on Time Scale and Pattern Polarity. <i>Journal of Climate</i> , 1992, 5, 271-283.	3.2	91
36	Mechanisms of the Great Plains Low-Level Jet as Simulated in an AGCM. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 532-547.	1.7	89

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37	Sensitivity to Horizontal Resolution in the AGCM Simulations of Warm Season Diurnal Cycle of Precipitation over the United States and Northern Mexico. <i>Journal of Climate</i> , 2007, 20, 1862-1881.	3.2	86
38	Role of eastward propagating convection systems in the diurnal cycle and seasonal mean of summertime rainfall over the U.S. Great Plains. <i>Geophysical Research Letters</i> , 2006, 33, .	4.0	74
39	Amplifying effect of ENSO on heat waves in China. <i>Climate Dynamics</i> , 2019, 52, 3277-3289.	3.8	73
40	A Diagnostic and Modeling Study of the Monthly Mean Wintertime Anomalies Appearing in a 100-Year GCM Experiment. <i>Journals of the Atmospheric Sciences</i> , 1993, 50, 2845-2867.	1.7	71
41	Teleconnection between Summer NAO and East China Rainfall Variations: A Bridge Effect of the Tibetan Plateau. <i>Journal of Climate</i> , 2018, 31, 6433-6444.	3.2	70
42	Regional Characteristics of the Northern Hemisphere Wintertime Circulation: A Comparison of the Simulation of a GFDL General Circulation Model with Observations. <i>Journals of the Atmospheric Sciences</i> , 1980, 37, 497-514.	1.7	68
43	Increasing Human-Perceived Heat Stress Risks Exacerbated by Urbanization in China: A Comparative Study Based on Multiple Metrics. <i>Earth's Future</i> , 2021, 9, e2020EF001848.	6.3	67
44	Simulation of Synoptic- and Subsynchronous-Scale Phenomena Associated with the East Asian Summer Monsoon Using a High-Resolution GCM. <i>Monthly Weather Review</i> , 2009, 137, 137-160.	1.4	56
45	Attribution of Atmospheric Variations in the 1997-2003 Period to SST Anomalies in the Pacific and Indian Ocean Basins. <i>Journal of Climate</i> , 2006, 19, 3607-3628.	3.2	52
46	Summer heat extremes in northern continents linked to developing ENSO events. <i>Environmental Research Letters</i> , 2020, 15, 074042.	5.2	51
47	Diurnal cycle of summertime deep convection over North America: A satellite perspective. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	48
48	A Model Investigation of the Role of Air-Sea Interaction in the Climatological Evolution and ENSO-Related Variability of the Summer Monsoon over the South China Sea and Western North Pacific. <i>Journal of Climate</i> , 2009, 22, 4771-4792.	3.2	48
49	Characteristics of summer heat stress in China during 1979-2014: climatology and long-term trends. <i>Climate Dynamics</i> , 2019, 53, 5375-5388.	3.8	44
50	Modulation of the Madden-Julian Oscillation by ENSO: Inferences from Observations and GCM Simulations. <i>Journal of the Meteorological Society of Japan</i> , 2005, 83, 727-743.	1.8	44
51	Contributions of Downstream Eddy Development to the Teleconnection between ENSO and the Atmospheric Circulation over the North Atlantic. <i>Journal of Climate</i> , 2012, 25, 4993-5010.	3.2	43
52	Winter-to-Spring Transition in East Asia: A Planetary-Scale Perspective of the South China Spring Rain Onset. <i>Journal of Climate</i> , 2008, 21, 3081-3096.	3.2	42
53	Broadening the Atmospheric Bridge Paradigm: ENSO Teleconnections to the Tropical West Pacific-Indian Oceans Over the Seasonal Cycle and to the North Pacific in Summer. <i>Geophysical Monograph Series</i> , 0, , 85-103.	0.1	41
54	Intraseasonal Teleconnection between North American and Western North Pacific Monsoons with 20-Day Time Scale. <i>Journal of Climate</i> , 2008, 21, 2664-2679.	3.2	40

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55	Interactions between the Asian monsoon and the El Niño/Southern Oscillation. , 2006, , 479-512.		39
56	Interactions between the Responses of North American Climate to El Niño/La Niña and to the Secular Warming Trend in the Indian/Western Pacific Oceans. Journal of Climate, 2008, 21, 476-494.	3.2	32
57	Simulation of the Diurnal Cycle in Tropical Rainfall and Circulation during Boreal Summer with a High-Resolution GCM. Monthly Weather Review, 2010, 138, 3434-3453.	1.4	32
58	Influences of ENSO on Stratospheric Variability, and the Descent of Stratospheric Perturbations into the Lower Troposphere. Journal of Climate, 2013, 26, 4725-4748.	3.2	31
59	Estimation of personal exposure to fine particles (PM2.5) of ambient origin for healthy adults in Hong Kong. Science of the Total Environment, 2019, 654, 514-524.	8.0	31
60	Impacts of ENSO and IOD on Snow Depth Over the Tibetan Plateau: Roles of Convections Over the Western North Pacific and Indian Ocean. Journal of Geophysical Research D: Atmospheres, 2019, 124, 11961-11975.	3.3	30
61	Frequency Dependence of the Structure and Temporal Development of Wintertime Tropospheric Fluctuations Comparison of a GCM Simulation with Observations. Monthly Weather Review, 1987, 115, 251-271.	1.4	29
62	SIMULATIONS BY A GFDL GCM OF ENSO-RELATED VARIABILITY OF THE COUPLED ATMOSPHERE-OCEAN SYSTEM IN THE EAST ASIAN MONSOON REGION. World Scientific Series on Asia-Pacific Weather and Climate, 2004, , 271-300.	0.2	29
63	Spatially Distinct Effects of Two El Niño Types on Summer Heat Extremes in China. Geophysical Research Letters, 2020, 47, e2020GL086982.	4.0	28
64	Synoptic characteristics, atmospheric controls, and long-term changes of heat waves over the Indochina Peninsula. Climate Dynamics, 2018, 51, 2707-2723.	3.8	26
65	Indoor, outdoor, and personal exposure to PM2.5 and their bioreactivity among healthy residents of Hong Kong. Environmental Research, 2020, 188, 109780.	7.5	26
66	Observed and GCM-Simulated Westward-Propagating, Planetary-Scale Fluctuations with Approximately Three-Week Periods. Monthly Weather Review, 1999, 127, 2324-2345.	1.4	24
67	A Model Study of the Air-Sea Interaction Associated with the Climatological Aspects and Interannual Variability of the South Asian Summer Monsoon Development. Journal of Climate, 2012, 25, 839-857.	3.2	22
68	Influences of surface air temperature and atmospheric circulation on winter snow cover variability over Europe. International Journal of Climatology, 2017, 37, 2606-2619.	3.5	22
69	Future changes in Asian summer monsoon precipitation extremes as inferred from 20-km AGCM simulations. Climate Dynamics, 2019, 52, 1443-1459.	3.8	20
70	Different mechanisms for daytime, nighttime, and compound heatwaves in southern China. Weather and Climate Extremes, 2022, 36, 100449.	4.1	20
71	Characteristics of Eurasian snowmelt and its impacts on the land surface and surface climate. Climate Dynamics, 2019, 52, 1115-1138.	3.8	19
72	Vegetation-heatwave correlations and contrasting energy exchange responses of different vegetation types to summer heatwaves in the Northern Hemisphere during the 1982-2011 period. Agricultural and Forest Meteorology, 2021, 296, 108208.	4.8	16

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73	Influences of the boreal winter Arctic Oscillation on the peak-summer compound heat waves over the Yangtzeâ€“Huaihe River basin: the North Atlantic capacitor effect. <i>Climate Dynamics</i> , 2022, 59, 2331-2343.	3.8	15
74	The Impact of ENSO on Atmospheric Intraseasonal Variability as Inferred from Observations and GCM Simulations. <i>Journal of Climate</i> , 2005, 18, 1902-1924.	3.2	14
75	Summer High Temperature Extremes over China Linked to the Pacific Meridional Mode. <i>Journal of Climate</i> , 2020, 33, 5905-5917.	3.2	14
76	An Observational Study of the Diurnal Variation of Precipitation over Hong Kong and the Underlying Processes. <i>Journal of Applied Meteorology and Climatology</i> , 2018, 57, 1385-1402.	1.5	13
77	Source identification of personal exposure to fine particulate matter (PM2.5) among adult residents of Hong Kong. <i>Atmospheric Environment</i> , 2019, 218, 116999.	4.1	13
78	Model Projections of the Changes in Atmospheric Circulation and Surface Climate over North America, the North Atlantic, and Europe in the Twenty-First Century. <i>Journal of Climate</i> , 2013, 26, 9603-9620.	3.2	9
79	2015 Bernhard Haurwitz Memorial Lecture: Model Diagnosis of El NiÃ±o Teleconnections to the Global Atmosphereâ€“Ocean System. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 981-988.	3.3	9
80	Projected changes in the characteristics of the East Asian summer monsoonal front and their impacts on the regional precipitation. <i>Climate Dynamics</i> , 2021, 56, 4013-4026.	3.8	8
81	Chapter 21 Response of a GFDL General Circulation model to sst Fluctuations Observed in the Tropical Pacific Ocean During the Period 1962â€“1976. <i>Elsevier Oceanography Series</i> , 1985, 40, 289-302.	0.1	6
82	Role of cumulus parameterization on the seasonal and diurnal precipitation over Southeast Asia in RegCM4. <i>Climate Dynamics</i> , 2019, 52, 6357-6375.	3.8	6
83	Future impacts of two types of El NiÃ±o on East Asian rainfall based on CMIP5 model projections. <i>Climate Dynamics</i> , 2021, 56, 899-916.	3.8	6
84	The Influences of Orography on Large-scale Atmospheric Flow Simulated by a General Circulation Model. , 1986, , 241-269.		4
85	Bridging Weather and Climate in Research and Forecasts of the Global Monsoon System. <i>Bulletin of the American Meteorological Society</i> , 2011, 92, 369-373.	3.3	2
86	The pioneering works of Professor Duzheng Ye on atmospheric dispersion, Tibetan Plateau meteorology, and airâ€“sea interaction. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 1137-1149.	4.3	2
87	Roles of land-surface properties and terrains on Maritime Continent rainfall and its seasonal evolution. <i>Climate Dynamics</i> , 2019, 53, 6681-6697.	3.8	2
88	Impacts of global warming on Meiyuâ€“Baiu extreme rainfall and associated mid-latitude synoptic-scale systems as inferred from 20km AGCM simulations. <i>Climate Dynamics</i> , 2022, 59, 1849-1861.	3.8	2
89	Wallace receives 1999 Roger Revelle medal. <i>Eos</i> , 1999, 80, 311.	0.1	0
90	SIMULATION OF SYNOPTIC AND SUB-SYNOPTIC SCALE PHENOMENA ASSOCIATED WITH THE EAST ASIAN MONSOON USING A HIGH-RESOLUTION GCM. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2011, , 493-508.	0.2	0