

# Ngar-Cheung Lau

## List of Publications by Year in descending order

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90  
papers

14,003  
citations

57681

46  
h-index

60403

85  
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90  
docs citations

90  
times ranked

9829  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.7	2
2	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.	1.7	15
3	Different mechanisms for daytime, nighttime, and compound heatwaves in southern China. <i>Weather and Climate Extremes</i> , 2022, 36, 100449.	1.6	20
4	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.	1.7	6
5	Vegetation-heatwave correlations and contrasting energy exchange responses of different vegetation types to summer heatwaves in the Northern Hemisphere during the 1982â€“2011 period. <i>Agricultural and Forest Meteorology</i> , 2021, 296, 108208.	1.9	16
6	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.	1.7	8
7	Increasing Humanâ€“Perceived Heat Stress Risks Exacerbated by Urbanization in China: A Comparative Study Based on Multiple Metrics. <i>Earth's Future</i> , 2021, 9, e2020EF001848.	2.4	67
8	Indoor, outdoor, and personal exposure to PM2.5 and their bioreactivity among healthy residents of Hong Kong. <i>Environmental Research</i> , 2020, 188, 109780.	3.7	26
9	Spatially Distinct Effects of Two El NiÃ±o Types on Summer Heat Extremes in China. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL086982.	1.5	28
10	Summer heat extremes in northern continents linked to developing ENSO events. <i>Environmental Research Letters</i> , 2020, 15, 074042.	2.2	51
11	Summer High Temperature Extremes over China Linked to the Pacific Meridional Mode. <i>Journal of Climate</i> , 2020, 33, 5905-5917.	1.2	14
12	Amplifying effect of ENSO on heat waves in China. <i>Climate Dynamics</i> , 2019, 52, 3277-3289.	1.7	73
13	Characteristics of summer heat stress in China during 1979â€“2014: climatology and long-term trends. <i>Climate Dynamics</i> , 2019, 53, 5375-5388.	1.7	44
14	Roles of land-surface properties and terrains on Maritime Continent rainfall and its seasonal evolution. <i>Climate Dynamics</i> , 2019, 53, 6681-6697.	1.7	2
15	Source identification of personal exposure to fine particulate matter (PM2.5) among adult residents of Hong Kong. <i>Atmospheric Environment</i> , 2019, 218, 116999.	1.9	13
16	Urban Expansion and Drying Climate in an Urban Agglomeration of East China. <i>Geophysical Research Letters</i> , 2019, 46, 6868-6877.	1.5	94
17	Impacts of ENSO and IOD on Snow Depth Over the Tibetan Plateau: Roles of Convections Over the Western North Pacific and Indian Ocean. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 11961-11975.	1.2	30
18	Estimation of personal exposure to fine particles (PM2.5) of ambient origin for healthy adults in Hong Kong. <i>Science of the Total Environment</i> , 2019, 654, 514-524.	3.9	31

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19	Role of cumulus parameterization on the seasonal and diurnal precipitation over Southeast Asia in RegCM4. <i>Climate Dynamics</i> , 2019, 52, 6357-6375.	1.7	6
20	Characteristics of Eurasian snowmelt and its impacts on the land surface and surface climate. <i>Climate Dynamics</i> , 2019, 52, 1115-1138.	1.7	19
21	Future changes in Asian summer monsoon precipitation extremes as inferred from 20-km AGCM simulations. <i>Climate Dynamics</i> , 2019, 52, 1443-1459.	1.7	20
22	Synoptic characteristics, atmospheric controls, and long-term changes of heat waves over the Indochina Peninsula. <i>Climate Dynamics</i> , 2018, 51, 2707-2723.	1.7	26
23	Elevated increases in human-perceived temperature under climate warming. <i>Nature Climate Change</i> , 2018, 8, 43-47.	8.1	100
24	Increasing Heat Stress in Urban Areas of Eastern China: Acceleration by Urbanization. <i>Geophysical Research Letters</i> , 2018, 45, 13,060.	1.5	131
25	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.	1.2	70
26	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.	0.6	13
27	The pioneering works of Professor Duzheng Ye on atmospheric dispersion, Tibetan Plateau meteorology, and air-sea interaction. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 1137-1149.	1.9	2
28	Influences of surface air temperature and atmospheric circulation on winter snow cover variability over Europe. <i>International Journal of Climatology</i> , 2017, 37, 2606-2619.	1.5	22
29	Heat Waves in Southern China: Synoptic Behavior, Long-Term Change, and Urbanization Effects. <i>Journal of Climate</i> , 2017, 30, 703-720.	1.2	223
30	2015 Bernhard Haurwitz Memorial Lecture: Model Diagnosis of El Niño Teleconnections to the Global Atmosphere-Ocean System. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 981-988.	1.7	9
31	Seasonality and Predictability of the Indian Ocean Dipole Mode: ENSO Forcing and Internal Variability. <i>Journal of Climate</i> , 2015, 28, 8021-8036.	1.2	114
32	Model Simulation and Projection of European Heat Waves in Present-Day and Future Climates. <i>Journal of Climate</i> , 2014, 27, 3713-3730.	1.2	120
33	Influences of ENSO on Stratospheric Variability, and the Descent of Stratospheric Perturbations into the Lower Troposphere. <i>Journal of Climate</i> , 2013, 26, 4725-4748.	1.2	31
34	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.	1.2	9
35	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.	3.3	253
36	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.	1.2	43

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37	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.	1.2	109
38	A Model Study of the Air–Sea Interaction Associated with the Climatological Aspects and Interannual Variability of the South Asian Summer Monsoon Development. <i>Journal of Climate</i> , 2012, 25, 839-857.	1.2	22
39	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.	1.2	184
40	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.	1.7	2
41	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
42	Simulation of the Diurnal Cycle in Tropical Rainfall and Circulation during Boreal Summer with a High-Resolution GCM. <i>Monthly Weather Review</i> , 2010, 138, 3434-3453.	0.5	32
43	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.	0.5	56
44	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.	1.2	48
45	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. <i>Journal of Climate</i> , 2008, 21, 476-494.	1.2	32
46	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.	1.2	42
47	Intraseasonal Teleconnection between North American and Western North Pacific Monsoons with 20-Day Time Scale. <i>Journal of Climate</i> , 2008, 21, 2664-2679.	1.2	40
48	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.	1.2	86
49	Mechanisms of the Great Plains Low-Level Jet as Simulated in an AGCM. <i>Journals of the Atmospheric Sciences</i> , 2007, 64, 532-547.	0.6	89
50	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.	0.7	93
51	Model Projections of an Imminent Transition to a More Arid Climate in Southwestern North America. <i>Science</i> , 2007, 316, 1181-1184.	6.0	1,792
52	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, .	1.5	74
53	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.	1.2	100
54	GFDL's CM2 Global Coupled Climate Models. Part III: Tropical Pacific Climate and ENSO. <i>Journal of Climate</i> , 2006, 19, 698-722.	1.2	322

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55	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.	1.2	52
56	Interactions between the Asian monsoon and the El Niño/Southern Oscillation. , 2006, , 479-512.		39
57	The Impact of ENSO on Atmospheric Intraseasonal Variability as Inferred from Observations and GCM Simulations. <i>Journal of Climate</i> , 2005, 18, 1902-1924.	1.2	14
58	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.	1.2	104
59	Diurnal cycle of summertime deep convection over North America: A satellite perspective. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	48
60	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.	0.7	44
61	SIMULATIONS BY A GFDL GCM OF ENSO-RELATED VARIABILITY OF THE COUPLED ATMOSPHERE-OCEAN SYSTEM IN THE EAST ASIAN MONSOON REGION. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2004, , 271-300.	0.2	29
62	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.	1.2	125
63	Atmosphere-Ocean Variations in the Indo-Pacific Sector during ENSO Episodes. <i>Journal of Climate</i> , 2003, 16, 3-20.	1.2	395
64	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.	1.2	1,505
65	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.	1.2	109
66	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.	1.2	430
67	Wallace receives 1999 Roger Revelle medal. <i>Eos</i> , 1999, 80, 311.	0.1	0
68	Remote Sea Surface Temperature Variations during ENSO: Evidence for a Tropical Atmospheric Bridge. <i>Journal of Climate</i> , 1999, 12, 917-932.	1.2	1,235
69	Observed and GCM-Simulated Westward-Propagating, Planetary-Scale Fluctuations with Approximately Three-Week Periods. <i>Monthly Weather Review</i> , 1999, 127, 2324-2345.	0.5	24
70	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
71	Interactions between Global SST Anomalies and the Midlatitude Atmospheric Circulation. <i>Bulletin of the American Meteorological Society</i> , 1997, 78, 21-33.	1.7	241
72	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.	1.2	406

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73	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.	1.2	308
74	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.	0.6	71
75	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.	1.2	91
76	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.	0.6	173
77	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.	1.2	118
78	Observed Structure and Propagation Characteristics of Tropical Summertime Synoptic Scale Disturbances. <i>Monthly Weather Review</i> , 1990, 118, 1888-1913.	0.5	243
79	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.	0.6	533
80	Frequency Dependence of the Structure and Temporal Development of Wintertime Tropospheric Fluctuations—Comparison of a GCM Simulation with Observations. <i>Monthly Weather Review</i> , 1987, 115, 251-271.	0.5	29
81	The Influences of Orography on Large-scale Atmospheric Flow Simulated by a General Circulation Model. , 1986, , 241-269.		4
82	Modeling the Seasonal Dependence of the Atmospheric Response to Observed El Niño in 1962-76. <i>Monthly Weather Review</i> , 1985, 113, 1970-1996.	0.5	218
83	Chapter 21 Response of a GFDL General Circulation model to sst Fluctuations Observed in the Tropical Pacific Ocean During the Period 1962-1976. <i>Elsevier Oceanography Series</i> , 1985, 40, 289-302.	0.1	6
84	Transient Eddy Forcing of the Time-Mean Flow as Identified by Geopotential Tendencies. <i>Journals of the Atmospheric Sciences</i> , 1984, 41, 313-328.	0.6	253
85	The Structure and Energetics of Midlatitude Disturbances Accompanying Cold-Air Outbreaks over East Asia. <i>Monthly Weather Review</i> , 1984, 112, 1309-1327.	0.5	94
86	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.	0.5	118
87	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.	0.6	68
88	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.	0.6	98
89	An Observational Study of the Northern Hemisphere Wintertime Circulation. <i>Journals of the Atmospheric Sciences</i> , 1977, 34, 1040-1053.	0.6	475
90	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