

Yali Luo

List of Publications by Year in descending order

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56
papers

2,077
citations

257101

24
h-index

243296

44
g-index

57
all docs

57
docs citations

57
times ranked

1026
citing authors

#	ARTICLE	IF	CITATIONS
1	The Southern China Monsoon Rainfall Experiment (SCMREX). <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 999-1013.	1.7	144
2	Synoptic Situations of Extreme Hourly Precipitation over China. <i>Journal of Climate</i> , 2016, 29, 8703-8719.	1.2	140
3	Comparison of Rainfall Characteristics and Convective Properties of Monsoon Precipitation Systems over South China and the Yangtze and Huai River Basin. <i>Journal of Climate</i> , 2013, 26, 110-132.	1.2	131
4	Observed Link of Extreme Hourly Precipitation Changes to Urbanization over Coastal South China. <i>Journal of Applied Meteorology and Climatology</i> , 2019, 58, 1799-1819.	0.6	126
5	Initiation, maintenance, and properties of convection in an extreme rainfall event during SCMREX: Observational analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2014, 119, 13,206.	1.2	115
6	Intercomparison of Deep Convection over the Tibetan Plateau and Asian Monsoon Region and Subtropical North America in Boreal Summer Using CloudSat/CALIPSO Data. <i>Journal of Climate</i> , 2011, 24, 2164-2177.	1.2	114
7	Initiation and Organizational Modes of an Extreme-Rain-Producing Mesoscale Convective System along a Mei-Yu Front in East China. <i>Monthly Weather Review</i> , 2014, 142, 203-221.	0.5	100
8	Mesoscale observational analysis of lifting mechanism of a warm-sector convective system producing the maximal daily precipitation in China mainland during pre-summer rainy season of 2015. <i>Journal of Meteorological Research</i> , 2016, 30, 719-736.	0.9	72
9	On the Extreme Rainfall Event of 7 May 2017 over the Coastal City of Guangzhou. Part I: Impacts of Urbanization and Orography. <i>Monthly Weather Review</i> , 2020, 148, 955-979.	0.5	70
10	Investigation of the predictability and physical mechanisms of an extreme-rainfall-producing mesoscale convective system along the Meiyu front in East China: An ensemble approach. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 10,593-10,618.	1.2	69
11	Modeling convective-stratiform precipitation processes on a Mei-Yu front with the Weather Research and Forecasting model: Comparison with observations and sensitivity to cloud microphysics parameterizations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	67
12	An Extreme Rainfall Event in Coastal South China During SCMREX in 2014: Formation and Roles of Rainband and Echo Trainings. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9256-9278.	1.2	58
13	Evaluation of quantitative precipitation forecasts by TIGGE ensembles for south China during the presummer rainy season. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 8494-8516.	1.2	55
14	Urbanization Enhanced Summertime Extreme Hourly Precipitation over the Yangtze River Delta. <i>Journal of Climate</i> , 2020, 33, 5809-5826.	1.2	53
15	Characteristics, Physical Mechanisms, and Prediction of Pre-summer Rainfall over South China: Research Progress during 2008-2019. <i>Journal of the Meteorological Society of Japan</i> , 2020, 98, 19-42.	0.7	48
16	Science and Prediction of Heavy Rainfall over China: Research Progress since the Reform and Opening-Up of New China. <i>Journal of Meteorological Research</i> , 2020, 34, 427-459.	0.9	47
17	Analysis of Paths and Sources of Moisture for the South China Rainfall during the Presummer Rainy Season of 1979-2014. <i>Journal of Meteorological Research</i> , 2018, 32, 744-757.	0.9	46
18	Statistical Characteristics of Pre-summer Rainfall over South China and Associated Synoptic Conditions. <i>Journal of the Meteorological Society of Japan</i> , 2020, 98, 213-233.	0.7	39

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19	Impact of Assimilating Wind Profiling Radar Observations on Convection-Permitting Quantitative Precipitation Forecasts during SCMREX. <i>Weather and Forecasting</i> , 2016, 31, 1271-1292.	0.5	36
20	Convection-permitting regional climate simulation of warm-season precipitation over Eastern China. <i>Climate Dynamics</i> , 2020, 54, 1469-1489.	1.7	36
21	Multi-layer arctic mixed-phase clouds simulated by a cloud-resolving model: Comparison with ARM observations and sensitivity experiments. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	33
22	The Relationship Between Anomalous Presummer Extreme Rainfall Over South China and Synoptic Disturbances. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 3395-3413.	1.2	32
23	Gridded Hourly Precipitation Analysis from High-Density Rain Gauge Network over the Yangtze-Huai Rivers Basin during the 2007 Mei-Yu Season and Comparison with CMORPH. <i>Journal of Hydrometeorology</i> , 2013, 14, 1243-1258.	0.7	31
24	South China Heavy Rainfall Experiments (SChEREX). <i>Journal of the Meteorological Society of Japan</i> , 2011, 89A, 153-166.	0.7	29
25	Sensitivity of a Simulated Squall Line During Southern China Monsoon Rainfall Experiment to Parameterization of Microphysics. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 4197-4220.	1.2	25
26	On the Localized Extreme Rainfall over the Great Bay Area in South China with Complex Topography and Strong UHI Effects. <i>Monthly Weather Review</i> , 2021, 149, 2777-2801.	0.5	25
27	Revealing the Circulation Pattern Most Conducive to Precipitation Extremes in Henan Province of North China. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	25
28	Roles of Double Low-Level Jets in the Generation of Coexisting Inland and Coastal Heavy Rainfall Over South China During the Presummer Rainy Season. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032890.	1.2	22
29	Cloud Microphysical Factors Affecting Simulations of Deep Convection During the Presummer Rainy Season in Southern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 10,477.	1.2	21
30	The persistent heavy rainfall over southern China in June 2010: Evolution of synoptic systems and the effects of the Tibetan Plateau heating. <i>Journal of Meteorological Research</i> , 2014, 28, 540-560.	0.9	19
31	Analysis of a Record-Breaking Rainfall Event Associated With a Monsoon Coastal Megacity of South China Using Multisource Data. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2021, 59, 6404-6414.	2.7	19
32	On the Diurnal Cycle of Heavy Rainfall over the Sichuan Basin during 10-18 August 2020. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 2183-2200.	1.9	19
33	Convective and Microphysical Characteristics of Extreme Precipitation Revealed by Multisource Observations Over the Pearl River Delta at Monsoon Coast. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	16
34	Synoptic Analysis of Extreme Hourly Precipitation in Taiwan during 2003-12. <i>Monthly Weather Review</i> , 2017, 145, 5123-5140.	0.5	15
35	Assimilating Doppler radar observations with an ensemble Kalman filter for convection-permitting prediction of convective development in a heavy rainfall event during the pre-summer rainy season of south China. <i>Science China Earth Sciences</i> , 2017, 60, 1866-1885.	2.3	15
36	Advances in Understanding the Early-Summer Heavy Rainfall over South China. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2017, , 215-226.	0.2	15

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37	The effects of cloud-aerosol interaction complexity on simulations of pre-summer rainfall over southern China. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5093-5110.	1.9	14
38	Science and prediction of monsoon heavy rainfall. <i>Science Bulletin</i> , 2019, 64, 1557-1561.	4.3	12
39	Spatial and temporal characteristics of abrupt heavy rainfall events over Southwest China during 1981-2017. <i>International Journal of Climatology</i> , 2021, 41, 3286-3299.	1.5	12
40	The Synoptic Impacts on the Convection Initiation of a Warm-Sector Heavy Rainfall Event Over Coastal South China Prior to the Monsoon Onset: A Numerical Modeling Study. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034335.	1.2	12
41	Impact of parameterizing the turbulent orographic form drag on convection-permitting simulations of winds and precipitation over South China during the 2019 pre-summer rainy season. <i>Atmospheric Research</i> , 2021, 263, 105814.	1.8	12
42	Warm-season mesoscale convective systems over eastern China: convection-permitting climate model simulation and observation. <i>Climate Dynamics</i> , 2021, 57, 3599-3617.	1.7	11
43	A Source of WRF Simulation Error for the Early-Summer Warm-Sector Heavy Rainfall Over South China Coast: Land-Sea Thermal Contrast in the Boundary Layer. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	10
44	Effects of anthropogenic and sea salt aerosols on a heavy rainfall event during the early-summer rainy season over coastal Southern China. <i>Atmospheric Research</i> , 2022, 265, 105923.	1.8	9
45	General features and synoptic-scale environments of mesoscale convective systems over South China during the 2013-2017 pre-summer rainy seasons. <i>Atmospheric Research</i> , 2022, 266, 105954.	1.8	9
46	A Double-Moment SBU-CYLIN Cloud Microphysics Scheme and Its Impact on a Squall Line Simulation. <i>Journal of Advances in Modeling Earth Systems</i> , 2021, 13, e2021MS002545.	1.3	7
47	Extreme Precipitation Produced by Relatively Weak Convective Systems in the Tropics and Subtropics. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	7
48	Convection-Permitting Hindcasting of Diurnal Variation of Mei-yu Rainfall Over East China With a Global Variable-Resolution Model. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2021JD034823.	1.2	6
49	Characteristics of Pre-summer Daytime Cloud Regimes over Coastal South China from the Himawari-8 Satellite. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 2008-2023.	1.9	6
50	Multiscale Perspectives on an Extreme Warm-Sector Rainfall Event over Coastal South China. <i>Remote Sensing</i> , 2022, 14, 3110.	1.8	6
51	Classification and Diurnal Variations of Precipitation Echoes Observed by a C-band Vertically-Pointing Radar in Central Tibetan Plateau during TIPEX-III 2014-IOP. <i>Journal of Meteorological Research</i> , 2018, 32, 985-1001.	0.9	5
52	A Statistical Analysis of Extreme Hot Characteristics and their Relationships with Urbanization in Southern China during 1971-2020. <i>Journal of Applied Meteorology and Climatology</i> , 2021, .	0.6	4
53	An Evaluation of Convection-Permitting Ensemble Simulations of Coastal Nocturnal Rainfall Over South China During the Early-Summer Rainy Season. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	4
54	Ground-based radar reflectivity mosaic of mei-yu precipitation systems over the Yangtze River-Huaihe River basins. <i>Advances in Atmospheric Sciences</i> , 2016, 33, 1285-1296.	1.9	1

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55	Responses of the Atmospheric Boundary Layer to a Low Latitude Mesoscale SST Front. Quarterly Journal of the Royal Meteorological Society, 0, , .	1.0	1
56	Energy Paths That Sustain the Warm-Sector Torrential Rainfall over South China and Their Contrasts to the Frontal Rainfall: A Case Study. Advances in Atmospheric Sciences, 0, , .	1.9	1