

# Yali Luo

## List of Publications by Year in descending order

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Version: 2024-02-01

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  | 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         |
| 2  | 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         |
| 3  | 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         |
| 4  | 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        |
| 5  | 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         |
| 6  | 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        |
| 7  | 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        |
| 8  | Extreme Precipitation Produced by Relatively Weak Convective Systems in the Tropics and Subtropics. <i>Geophysical Research Letters</i> , 2022, 49, .  | 1.5 | 7         |
| 9  | Multiscale Perspectives on an Extreme Warm-Sector Rainfall Event over Coastal South China. <i>Remote Sensing</i> , 2022, 14, 3110.   | 1.8 | 6         |
| 10 | 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        |
| 11 | 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         |
| 12 | 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        |
| 13 | 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         |
| 14 | 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        |
| 15 | 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        |
| 16 | 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        |
| 17 | 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        |
| 18 | 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         |

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|----|--|-----|-----------|
| 19 | On the Diurnal Cycle of Heavy Rainfall over the Sichuan Basin during 10â€“18 August 2020. <i>Advances in Atmospheric Sciences</i> , 2021, 38, 2183-2200.   | 1.9 | 19        |
| 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 | 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        |
| 22 | Roles of Double Lowâ€“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        |
| 23 | The effects of cloudâ€“aerosol interaction complexity on simulations of presummer rainfall over southern China. <i>Atmospheric Chemistry and Physics</i> , 2020, 20, 5093-5110.  | 1.9 | 14        |
| 24 | 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        |
| 25 | Urbanization Enhanced Summertime Extreme Hourly Precipitation over the Yangtze River Delta. <i>Journal of Climate</i> , 2020, 33, 5809-5826.   | 1.2 | 53        |
| 26 | Characteristics, Physical Mechanisms, and Prediction of Pre-summer Rainfall over South China: Research Progress during 2008â€“2019. <i>Journal of the Meteorological Society of Japan</i> , 2020, 98, 19-42.                             | 0.7 | 48        |
| 27 | 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        |
| 28 | 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       |
| 29 | Science and prediction of monsoon heavy rainfall. <i>Science Bulletin</i> , 2019, 64, 1557-1561.   | 4.3 | 12        |
| 30 | 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        |
| 31 | 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        |
| 32 | 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         |
| 33 | 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        |
| 34 | Analysis of Paths and Sources of Moisture for the South China Rainfall during the Presummer Rainy Season of 1979â€“2014. <i>Journal of Meteorological Research</i> , 2018, 32, 744-757.  | 0.9 | 46        |
| 35 | An Extreme Rainfall Event in Coastal South China During SCMREXâ€“2014: Formation and Roles of Rainband and Echo Trainings. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 9256-9278.                                 | 1.2 | 58        |
| 36 | Synoptic Analysis of Extreme Hourly Precipitation in Taiwan during 2003â€“12. <i>Monthly Weather Review</i> , 2017, 145, 5123-5140.  | 0.5 | 15        |

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|----|---|-----|-----------|
| 37 | 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        |
| 38 | The Southern China Monsoon Rainfall Experiment (SCMREX). <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 999-1013.   | 1.7 | 144       |
| 39 | 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        |
| 40 | 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        |
| 41 | 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        |
| 42 | Synoptic Situations of Extreme Hourly Precipitation over China. <i>Journal of Climate</i> , 2016, 29, 8703-8719.  | 1.2 | 140       |
| 43 | 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        |
| 44 | Ground-based radar reflectivity mosaic of mei-yu precipitation systems over the Yangtze Riverâ€“Huaihe River basins. <i>Advances in Atmospheric Sciences</i> , 2016, 33, 1285-1296.   | 1.9 | 1         |
| 45 | 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        |
| 46 | 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       |
| 47 | 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        |
| 48 | 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       |
| 49 | Gridded Hourly Precipitation Analysis from High-Density Rain Gauge Network over the Yangtzeâ€“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        |
| 50 | 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       |
| 51 | Intercomparison of Deep Convection over the Tibetan Plateauâ€“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       |
| 52 | South China Heavy Rainfall Experiments (SCHeREX). <i>Journal of the Meteorological Society of Japan</i> , 2011, 89A, 153-166.   | 0.7 | 29        |
| 53 | Modeling convectiveâ€“stratiform precipitation processes on a Meiâ€“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        |
| 54 | Multiâ€“layer arctic mixedâ€“phase clouds simulated by a cloudâ€“resolving model: Comparison with ARM observations and sensitivity experiments. <i>Journal of Geophysical Research</i> , 2008, 113, .   | 3.3 | 33        |

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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         |