

# Guixing Chen

## List of Publications by Year in descending order

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Version: 2024-02-01

55  
papers

2,326  
citations

279798

23  
h-index

223800

46  
g-index

56  
all docs

56  
docs citations

56  
times ranked

2219  
citing authors

| #  | ARTICLE  | IF   | CITATIONS |
|----|--|------|-----------|
| 1  | Increased atmospheric vapor pressure deficit reduces global vegetation growth. <i>Science Advances</i> , 2019, 5, eaax1396.  | 10.3 | 755       |
| 2  | Evaluation of the Warm-Season Diurnal Variability over East Asia in Recent Reanalyses JRA-55, ERA-Interim, NCEP CFSR, and NASA MERRA. <i>Journal of Climate</i> , 2014, 27, 5517-5537. | 3.2  | 133       |
| 3  | Heavy Rainfall Associated with Double Low-Level Jets over Southern China. Part II: Convection Initiation. <i>Monthly Weather Review</i> , 2019, 147, 543-565.                          | 1.4  | 119       |
| 4  | Diurnal Variations of Rainfall in Surface and Satellite Observations at the Monsoon Coast (South) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 6   | 3.2  | 102       |
| 5  | Heavy Rainfall Associated with Double Low-Level Jets over Southern China. Part I: Ensemble-Based Analysis. <i>Monthly Weather Review</i> , 2018, 146, 3827-3844.                       | 1.4  | 97        |
| 6  | Diurnal variation of precipitation over southeastern China: Spatial distribution and its seasonality. <i>Journal of Geophysical Research</i> , 2009, 114, .                            | 3.3  | 95        |
| 7  | Climatology of Low-Level Jets and Their Impact on Rainfall over Southern China during the Early-Summer Rainy Season. <i>Journal of Climate</i> , 2019, 32, 8813-8833.                  | 3.2  | 62        |
| 8  | Influence of summer monsoon diurnal cycle on moisture transport and precipitation over eastern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 3163-3177.    | 3.3  | 58        |
| 9  | Diurnal variation of precipitation over southeastern China: 2. Impact of the diurnal monsoon variability. <i>Journal of Geophysical Research</i> , 2009, 114, .                        | 3.3  | 56        |
| 10 | Contrasting frontal and warm-sector heavy rainfalls over South China during the early-summer rainy season. <i>Atmospheric Research</i> , 2020, 235, 104693.                            | 4.1  | 54        |
| 11 | Diurnal Cycle of a Heavy Rainfall Corridor over East Asia. <i>Monthly Weather Review</i> , 2017, 145, 3365-3389.   | 1.4  | 52        |
| 12 | Convection Initiation and Growth at the Coast of South China. Part II: Effects of the Terrain, Coastline, and Cold Pools. <i>Monthly Weather Review</i> , 2020, 148, 3871-3892.        | 1.4  | 42        |
| 13 | Convection Initiation and Growth at the Coast of South China. Part I: Effect of the Marine Boundary Layer Jet. <i>Monthly Weather Review</i> , 2020, 148, 3847-3869.                   | 1.4  | 41        |
| 14 | Corridors of Mei-Yu-Season Rainfall over Eastern China. <i>Journal of Climate</i> , 2020, 33, 2603-2626.   | 3.2  | 40        |
| 15 | Convection Initiation in Monsoon Coastal Areas (South China). <i>Geophysical Research Letters</i> , 2020, 47, e2020GL087035.   | 4.0  | 37        |
| 16 | Urbanization signatures in strong versus weak precipitation over the Pearl River Delta metropolitan regions of China. <i>Environmental Research Letters</i> , 2011, 6, 034020.         | 5.2  | 36        |
| 17 | Convective Instability Associated with the Eastward-Propagating Rainfall Episodes over Eastern China during the Warm Season. <i>Journal of Climate</i> , 2014, 27, 2331-2339.          | 3.2  | 33        |
| 18 | Diurnal Cycle of the Asian Summer Monsoon: Air Pump of the Second Kind. <i>Journal of Climate</i> , 2020, 33, 1747-1775.   | 3.2  | 33        |

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|----|--|-----|-----------|
| 19 | Validation and application of MODIS-derived SST in the South China Sea. <i>International Journal of Remote Sensing</i> , 2014, 35, 4315-4328.  | 2.9 | 32        |
| 20 | Cold Air Mass Analysis of the Record-Breaking Cold Surge Event over East Asia in January 2016. <i>Journal of the Meteorological Society of Japan</i> , 2019, 97, 275-293.  | 1.8 | 31        |
| 21 | Diurnal variation of rainfall in the Yangtze River Valley during the spring-summer transition from TRMM measurements. <i>Journal of Geophysical Research</i> , 2012, 117, .  | 3.3 | 30        |
| 22 | Diurnal Variations of Precipitation over North China Regulated by the Mountain-plains Solenoid and Boundary-layer Inertial Oscillation. <i>Advances in Atmospheric Sciences</i> , 2019, 36, 863-884.                                   | 4.3 | 29        |
| 23 | Diurnal Variations of Low-Level Winds and Precipitation Response to Large-Scale Circulations during a Heavy Rainfall Event. <i>Monthly Weather Review</i> , 2019, 147, 3981-4004.  | 1.4 | 27        |
| 24 | Climatology of tropical cyclone tornadoes in China from 2006 to 2018. <i>Science China Earth Sciences</i> , 2020, 63, 37-51.   | 5.2 | 21        |
| 25 | Image Processing of Radar Mosaics for the Climatology of Convection Initiation in South China. <i>Journal of Applied Meteorology and Climatology</i> , 2020, 59, 65-81.  | 1.5 | 20        |
| 26 | Toward Improved Forecasts of Sea-Breeze Horizontal Convective Rolls at Super High Resolutions. Part I: Configuration and Verification of a Down-Scaling Simulation System (DS3). <i>Monthly Weather Review</i> , 2015, 143, 1849-1872. | 1.4 | 19        |
| 27 | A comprehensive framework for seasonal controls of leaf abscission and productivity in evergreen broadleaved tropical and subtropical forests. <i>Innovation(China)</i> , 2021, 2, 100154.   | 9.1 | 19        |
| 28 | Interaction between turbulent flow and sea breeze front over urban-like coast in large-eddy simulation. <i>Journal of Geophysical Research D: Atmospheres</i> , 2017, 122, 5298-5315.  | 3.3 | 18        |
| 29 | Diurnal cycles of Mei-yu rainfall simulated over eastern China: Sensitivity to cumulus convective parameterization. <i>Atmospheric Research</i> , 2018, 213, 236-251.  | 4.1 | 18        |
| 30 | Urbanization signatures in strong versus weak precipitation over the Pearl River Delta metropolitan regions of China. <i>Environmental Research Letters</i> , 2011, 6, 049503.   | 5.2 | 15        |
| 31 | Influence of Coastal Marine Boundary Layer Jets on Rainfall in South China. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 782-801.   | 4.3 | 15        |
| 32 | Convection Initiation at a Coastal Rainfall Hotspot in South China: Synoptic Patterns and Orographic Effects. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .   | 3.3 | 15        |
| 33 | Southward cold air mass flux associated with the East Asian winter monsoon: Diversity and impacts. <i>Journal of Climate</i> , 2021, , 1-37.   | 3.2 | 14        |
| 34 | Seasonal, Interannual, and Interdecadal Variations of the East Asian Summer Monsoon: A Diurnal-Cycle Perspective. <i>Journal of Climate</i> , 2021, 34, 4403-4421.   | 3.2 | 14        |
| 35 | Evolution mechanisms of the intraseasonal oscillation associated with the Yangtze River Basin flood in 1998. <i>Science in China Series D: Earth Sciences</i> , 2005, 48, 957.   | 0.9 | 14        |
| 36 | Ensemble Sensitivity Analysis of Heavy Rainfall Associated With Three MCSs Coexisting Over Southern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2019JD031266.   | 3.3 | 11        |

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|----|--|-----|-----------|
| 37 | Convection Initiation Associated With Ambient Winds and Local Circulations Over a Tropical Island in South China. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL094382.                       | 4.0 | 11        |
| 38 | Toward Improved Forecasts of Sea-Breeze Horizontal Convective Rolls at Super High Resolutions. Part II: The Impacts of Land Use and Buildings. <i>Monthly Weather Review</i> , 2015, 143, 1873-1894.   | 1.4 | 10        |
| 39 | Ocean Salinity as a Precursor of Summer Rainfall over the East Asian Monsoon Region. <i>Journal of Climate</i> , 2019, 32, 5659-5676.  | 3.2 | 10        |
| 40 | Structures of the Sea-Breeze Front in Dual-Doppler Lidar Observation and Coupled Mesoscale-CO <sub>2</sub> LES Modeling. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 2397-2413. | 3.3 | 10        |
| 41 | Strong Ocean-Atmosphere Interactions during a Short-Term Hot Event over the Western Pacific Warm Pool in Response to El Niño. <i>Journal of Climate</i> , 2016, 29, 3841-3865.                         | 3.2 | 9         |
| 42 | Quantifying the Impacts of Cold Airmass on Aerosol Concentrations Over North China Using Isentropic Analysis. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 7308-7326.            | 3.3 | 9         |
| 43 | Super high-resolution mesoscale weather prediction. <i>Journal of Physics: Conference Series</i> , 2013, 454, 012073.  | 0.4 | 8         |
| 44 | Diurnal Variations of Southerly Monsoon Surge and Their Impacts on East Asian Summer Rainfall. <i>Journal of Climate</i> , 2022, 35, 159-177.  | 3.2 | 8         |
| 45 | Nocturnal Convection Initiation over Inland South China during a Record-Breaking Heavy Rainfall Event. <i>Monthly Weather Review</i> , 2022, 150, 2935-2957.   | 1.4 | 7         |
| 46 | The role of rapid urbanization in surface warming over eastern China. <i>International Journal of Remote Sensing</i> , 2014, 35, 8295-8308.  | 2.9 | 6         |
| 47 | Contrasting Cloud Regimes and Associated Rainfall over the South Asian and East Asian Monsoon Regions. <i>Journal of Climate</i> , 2021, 34, 3663-3681.  | 3.2 | 6         |
| 48 | Isentropic Analysis of Regional Cold Events over Northern China. <i>Advances in Atmospheric Sciences</i> , 2020, 37, 718-734.  | 4.3 | 5         |
| 49 | Zonal shift in the cold airmass stream of the East Asian winter monsoon. <i>Environmental Research Letters</i> , 2021, 16, 124028.   | 5.2 | 5         |
| 50 | Multiscale Processes of Heavy Rainfall over East Asia in Summer 2020: Diurnal Cycle in Response to Synoptic Disturbances. <i>Monthly Weather Review</i> , 2022, , .                                    | 1.4 | 5         |
| 51 | Radar-based Characteristics and Formation Environment of Supercells in the Landfalling Typhoon Mujigae in 2015. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 802-818.                           | 4.3 | 3         |
| 52 | Vertical Motions Prior to the Intensification of Simulated Typhoon Hagupit (2008). <i>Journal of Geophysical Research: Oceans</i> , 2019, 124, 577-592.  | 2.6 | 2         |
| 53 | Climatological intraseasonal oscillation of the summertime haze-fog in eastern China. <i>Atmospheric Environment</i> , 2021, 244, 117951.  | 4.1 | 2         |
| 54 | Structure and maintenance mechanisms of the Mascarene High in austral winter. <i>International Journal of Climatology</i> , 2022, 42, 4700-4715.   | 3.5 | 2         |

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|----|--|-----|-----------|
| 55 | Long-term trends and impacts of polar cold airmass in boreal summer. Environmental Research Letters, 2020, 15, 084042. | 5.2 | 1         |