

# Jianfang Fei

## List of Publications by Year in descending order

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Version: 2024-02-01

50  
papers

674  
citations

623734

14  
h-index

642732

23  
g-index

51  
all docs

51  
docs citations

51  
times ranked

573  
citing authors

#	ARTICLE	IF	CITATIONS
1	A Comparison between Moist and Dry Tropical Cyclones: The Low Effectiveness of Surface Sensible Heat Flux in Storm Intensification. <i>Journals of the Atmospheric Sciences</i> , 2022, 79, 31-49.	1.7	14
2	Analysis of the Winter Cloud-to-Ground Lightning Activity and Its Synoptic Background in China during 2010â€“20. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 985-998.	4.3	4
3	Uncertainty in TC Maximum Intensity with Fixed Ratio of Surface Exchange Coefficients for Enthalpy and Momentum. <i>Journal of Meteorological Research</i> , 2022, 36, 128-139.	2.4	0
4	The modulation effect of sea surface cooling on the eyewall replacement cycle in Typhoon Trami (2018). <i>Monthly Weather Review</i> , 2022, , .	1.4	10
5	Research of Super Typhoon Lekima: forecast, observation, numerical simulation and disaster survey. <i>Frontiers of Earth Science</i> , 2022, 16, 1-4.	2.1	2
6	Thermal Response to Tropical Cyclones Over the Kuroshio. <i>Earth and Space Science</i> , 2022, 9, .	2.6	6
7	Characteristics and Preliminary Causes of Extremely Persistent Heavy Rainfall Generated by Landfalling Tropical Cyclones Over China. <i>Earth and Space Science</i> , 2022, 9, .	2.6	4
8	Uplift Mechanism of Coastal Extremely Persistent Heavy Rainfall (EPhR): The Key Role of Lowâ€“Level Jets and Ageostrophic Winds in the Boundary Layer. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	6
9	Modeling the Shallow Cumulus-Topped Boundary Layer at Gray Zone Resolutions. <i>Journals of the Atmospheric Sciences</i> , 2022, 79, 2435-2451.	1.7	2
10	Spatiotemporal Characteristics and Associated Synoptic Patterns of Extremely Persistent Heavy Rainfall in Southern China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, .	3.3	11
11	Characteristics of mesoscale convective systems during the warm season over the <scp>Tibetan Plateau</scp> based on <scp>FY</scp>â€“2 satellite datasets. <i>International Journal of Climatology</i> , 2021, 41, 2301-2315.	3.5	6
12	What is the Most Important Cause of Diurnal Cycles in Meiyu Frontal Precipitation over China?. <i>World Scientific Series on Asia-Pacific Weather and Climate</i> , 2021, , 133-150.	0.2	0
13	Imprints of Tropical Cyclones on Structural Characteristics of Mesoscale Oceanic Eddies Over the Western North Pacific. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092601.	4.0	8
14	Evaluation and Error Analysis of Official Tropical Cyclone Intensity Forecasts during 2005â€“2018 for the Western North Pacific. <i>Journal of the Meteorological Society of Japan</i> , 2021, 99, 139-163.	1.8	19
15	Direct/indirect effects of aerosols and their separate contributions to Typhoon Lupit (2009): Eyewall versus peripheral rainbands. <i>Science China Earth Sciences</i> , 2021, 64, 2113-2128.	5.2	15
16	Effects of Airâ€“Sea Interaction on the Eyewall Replacement Cycle of Typhoon Sinlaku (2008): Verification of Numerical Simulation. <i>Earth and Space Science</i> , 2020, 7, e2019EA000763.	2.6	1
17	Modulation of Clouds and Rainfall by Tropical Cyclone's Cold Wakes. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088873.	4.0	33
18	A Study of the Interaction between Typhoon Francisco (2013) and a Cold-Core Eddy. Part II: Boundary Layer Structures. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 2865-2883.	1.7	9

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19	Maintenance and Sudden Change of a Strong Elevated Ducting Event Associated with High Pressure and Marine Low-Level Jet. <i>Journal of Meteorological Research</i> , 2020, 34, 1287-1298.	2.4	4
20	A Definition of Rapid Weakening for Tropical Cyclones Over the Western North Pacific. <i>Geophysical Research Letters</i> , 2019, 46, 11471-11478.	4.0	17
21	Simulation of an Asian Dust Storm Event in May 2017. <i>Atmosphere</i> , 2019, 10, 135.	2.3	13
22	Sensitivity of the Simulated Tropical Cyclone Intensification to the Boundaryâ€Layer Height Based on a Profile Boundaryâ€Layer Parameterization Scheme. <i>Journal of Advances in Modeling Earth Systems</i> , 2018, 10, 2912-2932.	3.8	10
23	The Controlling Role of Boundary Layer Inertial Oscillations in Meiyu Frontal Precipitation and Its Diurnal Cycles Over China. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 5090-5115.	3.3	79
24	Comparison of Simulated Tropical Cyclone Intensity and Structures Using the WRF with Hydrostatic and Nonhydrostatic Dynamical Cores. <i>Atmosphere</i> , 2018, 9, 483.	2.3	6
25	Estimating the Correlated Observation-Error Characteristics of the Chinese FengYun Microwave Temperature Sounder and Microwave Humidity Sounder. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 1428-1441.	4.3	5
26	Relative roles of dry intrusion, latent heat and instabilities in the Mei-yu rainband life cycle: A case study. <i>Atmospheric Research</i> , 2018, 214, 10-20.	4.1	6
27	Simulation and Analysis of the Initiation of a Squall Line within a Meiyu Frontal System in East China. <i>Atmosphere</i> , 2018, 9, 183.	2.3	5
28	Modulating Effects of Mesoscale Oceanic Eddies on Sea Surface Temperature Response to Tropical Cyclones Over the Western North Pacific. <i>Journal of Geophysical Research D: Atmospheres</i> , 2018, 123, 367-379.	3.3	31
29	Where will tropical cyclogenesis occur around a preexisting tropical cyclone?. <i>Geophysical Research Letters</i> , 2017, 44, 578-586.	4.0	3
30	Development of a new significant wave height and dominant wave period parameterization scheme. <i>Ocean Engineering</i> , 2017, 135, 170-182.	4.3	8
31	An Investigation of the Influences of Mesoscale Ocean Eddies on Tropical Cyclone Intensities. <i>Monthly Weather Review</i> , 2017, 145, 1181-1201.	1.4	41
32	Evaluation of the impact of observations on blended sea surface winds in a two-dimensional variational scheme using degrees of freedom. <i>Journal of Meteorological Research</i> , 2017, 31, 1123-1132.	2.4	0
33	Rosby wave energy dispersion from tropical cyclone in zonal basic flows. <i>Journal of Geophysical Research D: Atmospheres</i> , 2016, 121, 3120-3138.	3.3	5
34	Development and validation of an evaporation duct model. Part II: Evaluation and improvement of stability functions. <i>Journal of Meteorological Research</i> , 2015, 29, 482-495.	2.4	6
35	Statistical characteristics and mechanistic analysis of suddenly reversed tropical cyclones over the western North Pacific Ocean. <i>Advances in Atmospheric Sciences</i> , 2015, 32, 565-576.	4.3	1
36	Development and validation of an evaporation duct model. Part I: Model establishment and sensitivity experiments. <i>Journal of Meteorological Research</i> , 2015, 29, 467-481.	2.4	17

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37	Characteristics of Mesoscale Convective Systems over China and Its Vicinity Using Geostationary Satellite FY2. <i>Journal of Climate</i> , 2015, 28, 4890-4907.	3.2	58
38	A Potential Problem with the Application of Moist Static Energy in Tropical Cyclone Studies. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 3009-3019.	1.7	8
39	Contributions of Surface Sensible Heat Fluxes to Tropical Cyclone. Part I: Evolution of Tropical Cyclone Intensity and Structure. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 120-140.	1.7	44
40	Contributions of Surface Sensible Heat Fluxes to Tropical Cyclone. Part II: The Sea Spray Processes. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 4218-4236.	1.7	15
41	A Numerical Study on the Combined Effect of Midlatitude and Low-Latitude Systems on the Abrupt Track Deflection of Typhoon Megi (2010). <i>Monthly Weather Review</i> , 2014, 142, 2483-2501.	1.4	17
42	The four dimensional variational data assimilation with multiple regularization parameters as a weak constraint (Tikh-4D-Var) and its preliminary application on typhoon initialization. <i>Science China Earth Sciences</i> , 2014, 57, 2690-2701.	5.2	4
43	A regional simulation study on dispersion of nuclear pollution from the damaged Fukushima Nuclear Power Plant. <i>Science China Earth Sciences</i> , 2014, 57, 1513-1524.	5.2	3
44	Numerical study on the impacts of the bogus data assimilation and sea spray parameterization on typhoon ducts. <i>Journal of Meteorological Research</i> , 2013, 27, 308-321.	1.0	2
45	Observational Occurrence of Tropical Cyclone Ducts from GPS Dropsonde Data. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 1221-1236.	1.5	25
46	The effects of ocean feedback on tropical cyclone energetics under idealized air-sea interaction conditions. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 9778-9788.	3.3	14
47	Effects of the Cold Core Eddy on Tropical Cyclone Intensity and Structure under Idealized Air-Sea Interaction Conditions. <i>Monthly Weather Review</i> , 2013, 141, 1285-1303.	1.4	47
48	Sensitivity of tropical cyclone intensity and structure to vertical resolution in WRF. <i>Asia-Pacific Journal of Atmospheric Sciences</i> , 2012, 48, 67-81.	2.3	22
49	Development of an integrated vertical-slantwise convective parameterization scheme and its associated numerical experiments. <i>Journal of Meteorological Research</i> , 2011, 25, 405-418.	1.0	4
50	Effect of sea spray on the numerical simulation of super typhoon "Ewiniar". <i>Journal of Ocean University of China</i> , 2008, 7, 362-372.	1.2	4