List of Publications by Year
in descending order

75 papers	2,188 citations	218381 26 h-index	253896 43 g-index
75 all docs	75 docs citations	75 times ranked	1116 citing authors

#	Article	IF	Citations
1	Microphysical Characteristics of Extreme-Rainfall Convection over the Pearl River Delta Region, South China from Polarimetric Radar Data during the Pre-summer Rainy Season. Advances in Atmospheric Sciences, 2023, 40, 874-886.	1.9	8
2	Validation of Precipitation Measurements From the Dual-Frequency Precipitation Radar Onboard the GPM Core Observatory Using a Polarimetric Radar in South China. IEEE Transactions on Geoscience and Remote Sensing, 2022, 60, 1-16.	2.7	6
3	Evaluation and Modification of Microphysics Schemes on the Cold Pool Evolution for a Simulated Bow Echo in Southeast China. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	7
4	Observed Surface Drag Coefficient Under High Wind Speed Conditions and the Relationship With Coherent Structures. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	3
5	Microphysical Characteristics of the Phase‐Locking VRW‐Induced Asymmetric Convection in the Outer Eyewall of Super Typhoon Lekima (2019). Geophysical Research Letters, 2022, 49, .	1.5	12
6	Roles of Multi‐Scale Orography in Triggering Nocturnal Convection at a Summer Rainfall Hotspot Over the South China Coast: A Case Study. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	8
7	Improving Time-Efficiency of Variational Specific Differential Phase Estimation. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 5642-5664.	2.7	1
8	Quasi‐Periodic Intensification of Convective Asymmetries in the Outer Eyewall of Typhoon Lekima (2019). Geophysical Research Letters, 2021, 48, e2020GL091633.	1.5	15
9	The Crucial Role of Synoptic Pattern in Determining the Spatial Distribution and Diurnal Cycle of Heavy Rainfall over the South China Coast. Journal of Climate, 2021, 34, 2441-2458.	1.2	20
10	Evaluation of Microphysics Schemes in Tropical Cyclones Using Polarimetric Radar Observations: Convective Precipitation in an Outer Rainband. Monthly Weather Review, 2021, 149, 1055-1068.	0.5	21
11	Assimilation of X‐Band Phased‐Array Radar Data With EnKF for the Analysis and Warning Forecast of a Tornadic Storm. Journal of Advances in Modeling Earth Systems, 2021, 13, e2020MS002441.	1.3	3
12	Improving Nowcasting of Convective Development by Incorporating Polarimetric Radar Variables Into a Deep‐Learning Model. Geophysical Research Letters, 2021, 48, e2021GL095302.	1.5	49
13	Impacts of Urban Expansion on the Diurnal Variations of Summer Monsoon Precipitation Over the South China Coast. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2021JD035318.	1.2	7
14	Evaluating Simulated Raindrop Size Distributions and Ice Microphysical Processes With Polarimetric Radar Observations in a Meiyu Front Event Over Eastern China. Journal of Geophysical Research D: Atmospheres, 2021, 126, e2020JD034511.	1.2	10
15	Optimized raindrop size distribution retrieval and quantitative rainfall estimation from polarimetric radar. Journal of Hydrology, 2020, 580, 124248.	2.3	13
16	Microphysics of Stratiform and Convective Precipitation During Meiyu Season in Eastern China. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2020JD032677.	1.2	15
17	Subseasonal and Diurnal Variability in Lightning and Storm Activity over the Yangtze River Delta, China, during Mei-yu Season. Journal of Climate, 2020, 33, 5013-5033.	1.2	10
18	Evaluation of Simulated Drop Size Distributions and Microphysical Processes Using Polarimetric Radar Observations for Landfalling Typhoon Matmo (2014). Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031527.	1.2	18

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19	VDRAS and Polarimetric Radar Investigation of a Bow Echo Formation After a Squall Line Merged With a Preline Convective Cell. Journal of Geophysical Research D: Atmospheres, 2020, 125, e2019JD031719.	1.2	17
20	Impacts of Urbanization on the Precipitation Characteristics in Guangdong Province, China. Advances in Atmospheric Sciences, 2020, 37, 696-706.	1.9	40
21	Snow Particle Size Distribution From a 2-D Video Disdrometer and Radar Snowfall Estimation in East China. IEEE Transactions on Geoscience and Remote Sensing, 2020, , 1-12.	2.7	6
22	Improved Attenuation-Based Radar Precipitation Estimation Considering the Azimuthal Variabilities of Microphysical Properties. Journal of Hydrometeorology, 2020, 21, 1605-1620.	0.7	8
23	Recent Progress in Dual-Polarization Radar Research and Applications in China. Advances in Atmospheric Sciences, 2019, 36, 961-974.	1.9	34
24	Landfalling Tropical Cyclone Research Project (LTCRP) in China. Bulletin of the American Meteorological Society, 2019, 100, ES447-ES472.	1.7	20
25	Microphysical Characteristics of Three Convective Events with Intense Rainfall Observed by Polarimetric Radar and Disdrometer in Eastern China. Remote Sensing, 2019, 11, 2004.	1.8	17
26	Seasonal Variations of Observed Raindrop Size Distribution in East China. Advances in Atmospheric Sciences, 2019, 36, 346-362.	1.9	57
27	Effects of Aerosols on the Precipitation of Convective Clouds: A Case Study in the Yangtze River Delta of China. Journal of Geophysical Research D: Atmospheres, 2019, 124, 7868-7885.	1.2	7
28	Influence of Synoptic Pattern and Low‑Level Wind Speed on Intensity and Diurnal Variations of Orographic Convection in Summer Over Pearl River Delta, South China. Journal of Geophysical Research D: Atmospheres, 2019, 124, 6157-6179.	1.2	23
29	A Bayesian Hydrometeor Classification Algorithm for C-Band Polarimetric Radar. Remote Sensing, 2019, 11, 1884.	1.8	7
30	Review of Chinese atmospheric science research over the past 70 years: Synoptic meteorology. Science China Earth Sciences, 2019, 62, 1946-1991.	2.3	22
31	Role of the Nocturnal Low-level Jet in the Formation of the Morning Precipitation Peak over the Dabie Mountains. Advances in Atmospheric Sciences, 2019, 36, 15-28.	1.9	27
32	Evaluation of Real‑Time Convection‑Permitting Precipitation Forecasts in China During the 2013–2014 Summer Season. Journal of Geophysical Research D: Atmospheres, 2018, 123, 1037-1064.	1.2	47
33	Initiation and Evolution of Elevated Convection in a Nocturnal Squall Line Along the Meiyu Front. Journal of Geophysical Research D: Atmospheres, 2018, 123, 7292-7310.	1.2	22
34	Quantitative Precipitation Estimation with Operational Polarimetric Radar Measurements in Southern China: A Differential Phase‑Based Variational Approach. Journal of Atmospheric and Oceanic Technology, 2018, 35, 1253-1271.	0.5	35
35	Kinematics and Microphysics of Convection in the Outer Rainband of Typhoon Nida (2016) Revealed by Polarimetric Radar. Monthly Weather Review, 2018, 146, 2147-2159.	0.5	45
36	Dynamics and Predictability of the Rapid Intensification of Super Typhoon Usagi (2013). Journal of Geophysical Research D: Atmospheres, 2018, 123, 7462-7481.	1.2	10

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37	The Deadliest Tornado (EF4) in the Past 40 Years in China. Weather and Forecasting, 2018, 33, 693-713.	0.5	21
38	Microphysical and Kinematic Structure of Convective–Scale Elements in the Inner Rainband of Typhoon Matmo (2014) After Landfall. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6549-6564.	1.2	26
39	Drop Size Distribution Characteristics of Seven Typhoons in China. Journal of Geophysical Research D: Atmospheres, 2018, 123, 6529-6548.	1.2	72
40	A Numerical Study on Rapid Intensification of Typhoon Vicente (2012) in the South China Sea. Part I: Verification of Simulation, Storm-Scale Evolution, and Environmental Contribution. Monthly Weather Review, 2017, 145, 877-898.	0.5	34
41	Impacts of Instrument Limitations on Estimated Raindrop Size Distribution, Radar Parameters, and Model Microphysics during Mei-Yu Season in East China. Journal of Atmospheric and Oceanic Technology, 2017, 34, 1021-1037.	0.5	42
42	Improving Polarimetric C-Band Radar Rainfall Estimation with Two-Dimensional Video Disdrometer Observations in Eastern China. Journal of Hydrometeorology, 2017, 18, 1375-1391.	0.7	31
43	A Hybrid Method to Estimate Specific Differential Phase and Rainfall With Linear Programming and Physics Constraints. IEEE Transactions on Geoscience and Remote Sensing, 2017, 55, 96-111.	2.7	27
44	Influence of Monsoonal Wind Speed and Moisture Content on Intensity and Diurnal Variations of the Mei-Yu Season Coastal Rainfall over South China. Journals of the Atmospheric Sciences, 2017, 74, 2835-2856.	0.6	76
45	Doppler Radar Analysis of a Tornadic Miniature Supercell during the Landfall of Typhoon Mujigae (2015) in South China. Bulletin of the American Meteorological Society, 2017, 98, 1821-1831.	1.7	18
46	The Southern China Monsoon Rainfall Experiment (SCMREX). Bulletin of the American Meteorological Society, 2017, 98, 999-1013.	1.7	144
47	Evolution of microphysical structure of a subtropical squall line observed by a polarimetric radar and a disdrometer during OPACC in Eastern China. Journal of Geophysical Research D: Atmospheres, 2017, 122, 8033-8050.	1.2	61
48	Improving the extreme rainfall forecast of Typhoon Morakot (2009) by assimilating radar data from Taiwan Island and mainland China. Journal of Meteorological Research, 2017, 31, 747-766.	0.9	10
49	The impact of T–TREC–retrieved wind and radial velocity data assimilation using EnKF and effects of assimilation window on the analysis and prediction of Typhoon Jangmi (2008). Journal of Geophysical Research D: Atmospheres, 2016, 121, 259-277.	1.2	5
50	An investigation on how inner–core structures obtained through radar data assimilation affect track forecasting of typhoon Jangmi (2008) near Taiwan Island. Journal of Geophysical Research D: Atmospheres, 2016, 121, 10,601.	1.2	1
51	Assessing the safety and efficacy of full robotic gastrectomy with intracorporeal robot-sewn anastomosis for gastric cancer: A randomized clinical trial. Journal of Surgical Oncology, 2016, 113, 397-404.	0.8	50
52	Recent significant tornadoes in China. Advances in Atmospheric Sciences, 2016, 33, 1209-1217.	1.9	29
53	Precipitation microphysics characteristics of a Typhoon Matmo (2014) rainband after landfall over eastern China based on polarimetric radar observations. Journal of Geophysical Research D: Atmospheres, 2016, 121, 12,415.	1.2	85
54	Diurnal Variations of the Land–Sea Breeze and Its Related Precipitation over South China. Journals of the Atmospheric Sciences, 2016, 73, 4793-4815.	0.6	113

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55	Statistical characteristics of raindrop size distributions observed in East China during the Asian summer monsoon season using 2â€D video disdrometer and Micro Rain Radar data. Journal of Geophysical Research D: Atmospheres, 2016, 121, 2265-2282.	1.2	124
56	Assimilating surface observations in a four-dimensional variational Doppler radar data assimilation system to improve the analysis and forecast of a squall line case. Advances in Atmospheric Sciences, 2016, 33, 1106-1119.	1.9	21
57	Wind estimation around the shipwreck of Oriental Star based on field damage surveys and radar observations. Science Bulletin, 2016, 61, 330-337.	4.3	22
58	Doppler Radar Analysis of Triple Eyewalls in Typhoon Usagi (2013). Bulletin of the American Meteorological Society, 2016, 97, 25-30.	1.7	12
59	Implementation of a dynamic equation constraint based on the steady state momentum equations within the WRF hybrid ensembleâ€3DVar data assimilation system and test with radar Tâ€TREC wind assimilation for tropical Cyclone Chanthu (2010). Journal of Geophysical Research D: Atmospheres, 2015, 120, 4017-4039.	1.2	19
60	Radarâ€observed diurnal cycle and propagation of convection over the Pearl River Delta during Meiâ€Yu season. Journal of Geophysical Research D: Atmospheres, 2015, 120, 12557-12575.	1.2	65
61	Impacts of elevated-aerosol-layer and aerosol type on the correlation of AOD and particulate matter with ground-based and satellite measurements in Nanjing, southeast China. Science of the Total Environment, 2015, 532, 195-207.	3.9	43
62	Synoptic Flow Patterns and Large-Scale Characteristics Associated with Rapidly Intensifying Tropical Cyclones in the South China Sea. Monthly Weather Review, 2015, 143, 64-87.	0.5	49
63	Assimilation of T-TREC-Retrieved Winds from Single-Doppler Radar with an Ensemble Kalman Filter for the Forecast of Typhoon Jangmi (2008). Monthly Weather Review, 2014, 142, 1892-1907.	0.5	18
64	Spatial and temporal characteristics of warm season convection over Pearl River Delta region, China, based on 3â€‰years of operational radar data. Journal of Geophysical Research D: Atmospheres, 2014, 119, 12,447.	1.2	82
65	Storm-Scale Radar Data Assimilation and High Resolution NWP. Advances in Meteorology, 2014, 2014, 1-3.	0.6	3
66	The Improvement to the Environmental Wind and Tropical Cyclone Circulation Retrievals with the Modified GBVTD (MGBVTD) Technique. Journal of Applied Meteorology and Climatology, 2013, 52, 2493-2508.	0.6	8
67	Assimilation of Tâ€TRECâ€retrieved wind data with WRF 3DVAR for the shortâ€term forecasting of typhoon Meranti (2010) near landfall. Journal of Geophysical Research D: Atmospheres, 2013, 118, 10,361.	1.2	12
68	A Modeling Study on the Development of a Bowing Structure and Associated Rear Inflow within a Squall Line over South China. Journals of the Atmospheric Sciences, 2012, 69, 1182-1207.	0.6	37
69	The Gradient Velocity Track Display (GrVTD) Technique for Retrieving Tropical Cyclone Primary Circulation from Aliased Velocities Measured by Single-Doppler Radar. Journal of Atmospheric and Oceanic Technology, 2012, 29, 1026-1041.	0.5	7
70	Shortâ€term forecasting through intermittent assimilation of data from Taiwan and mainland China coastal radars for Typhoon Meranti (2010) at landfall. Journal of Geophysical Research, 2012, 117, .	3.3	28
71	Impact of assimilating airborne Doppler radar velocity data using the ARPS 3DVAR on the analysis and prediction of Hurricane Ike (2008). Journal of Geophysical Research, 2012, 117, .	3.3	10
72	Assimilation of GBVTDâ€retrieved winds from singleâ€Doppler radar for shortâ€term forecasting of super typhoon <i>Saomai</i> (0608) at landfall. Quarterly Journal of the Royal Meteorological Society, 2012, 138, 1055-1071.	1.0	21

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73	The T-TREC technique for retrieving the winds of landfalling typhoons in China. Journal of Meteorological Research, 2011, 25, 91-103.	1.0	12
74	Assimilation of coastal Doppler radar data with the ARPS 3DVAR and cloud analysis for the prediction of Hurricane Ike (2008). Geophysical Research Letters, 2009, 36, .	1.5	58
75	Single Doppler radar observation of the concentric eyewall in Typhoon Saomai, 2006, near landfall. Geophysical Research Letters, 2008, 35, .	1.5	22