

Zhaoxia Pu

List of Publications by Year in descending order

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102
papers

2,911
citations

201385

27
h-index

189595

50
g-index

104
all docs

104
docs citations

104
times ranked

2885
citing authors

#	ARTICLE	IF	CITATIONS
1	Diurnal cycle of precipitation and near-surface atmospheric conditions over the maritime continent: land-sea contrast and impacts of ambient winds in cloud-permitting simulations. <i>Climate Dynamics</i> , 2022, 58, 2421-2449.	1.7	3
2	Numerical Simulations of a Florida Sea Breeze and Its Interactions with Associated Convection: Effects of Geophysical Representation and Model Resolution. <i>Advances in Atmospheric Sciences</i> , 2022, 39, 697-713.	1.9	4
3	Assimilating C-Band Radar Data for High-Resolution Simulations of Precipitation: Case Studies over Western Sumatra. <i>Remote Sensing</i> , 2022, 14, 42.	1.8	4
4	Impacts of Assimilating CYGNSS Satellite Ocean-Surface Wind on Prediction of Landfalling Hurricanes with the HWRF Model. <i>Remote Sensing</i> , 2022, 14, 2118.	1.8	5
5	Combined Assimilation of Doppler Wind Lidar and Tail Doppler Radar Data over a Hurricane Inner Core for Improved Hurricane Prediction with the NCEP Regional HWRF System. <i>Remote Sensing</i> , 2022, 14, 2367.	1.8	1
6	Turbulence Effects on the Formation of Cold Fog Over Complex Terrain With Large-Eddy Simulation. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	1
7	Vertical Eddy Diffusivity Parameterization Based on a Large-Eddy Simulation and Its Impact on Prediction of Hurricane Landfall. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL090703.	1.5	11
8	Land-Surface Diurnal Effects on the Asymmetric Structures of a Postlandfall Tropical Storm. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, 2020JD033842.	1.2	1
9	Moisture Variation with Cloud Effects during a BSISO over the Eastern Maritime Continent in a Cloud-Permitting-Scale Simulation. <i>Journals of the Atmospheric Sciences</i> , 2021, 78, 1869-1888.	0.6	5
10	Assimilation of Radial Velocity from Coastal NEXRAD into HWRF for Improved Forecasts of Landfalling Hurricanes. <i>Weather and Forecasting</i> , 2021, 36, 587-599.	0.5	7
11	Effects of Roll Vortices on the Evolution of Hurricane Harvey during Landfall. <i>Journals of the Atmospheric Sciences</i> , 2021, 78, 1847-1867.	0.6	7
12	Combining Monte Carlo and Ensemble Probabilities in Tropical Cyclone Forecasts near Landfall. <i>Journal of Meteorological Research</i> , 2021, 35, 607-622.	0.9	0
13	Evaluation of the Four-Dimensional Ensemble-Variational Hybrid Data Assimilation with Self-Consistent Regional Background Error Covariance for Improved Hurricane Intensity Forecasts. <i>Atmosphere</i> , 2020, 11, 1007.	1.0	2
14	Improving Near-Surface Short-Range Weather Forecasts Using Strongly Coupled Land-Atmosphere Data Assimilation with GSI-EnKF. <i>Monthly Weather Review</i> , 2020, 148, 2863-2888.	0.5	9
15	Impact of transmission tower-line interaction to the bulk power system during hurricane. <i>Reliability Engineering and System Safety</i> , 2020, 203, 107079.	5.1	38
16	Simulation of Wind Speed Based on Different Driving Datasets and Parameterization Schemes Near Dunhuang Wind Farms in Northwest of China. <i>Atmosphere</i> , 2020, 11, 647.	1.0	6
17	Diurnal Cycle of Precipitation Over the Maritime Continent Under Modulation of MJO: Perspectives From Cloud-Permitting Scale Simulations. <i>Journal of Geophysical Research D: Atmospheres</i> , 2020, 125, e2020JD032529.	1.2	21
18	The Impact of Airborne Doppler Aerosol Wind (DAWN) Lidar Wind Profiles on Numerical Simulations of Tropical Convective Systems during the NASA Convective Processes Experiment (CPEX). <i>Journal of Atmospheric and Oceanic Technology</i> , 2020, 37, 705-722.	0.5	8

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19	Data Availability Principles and Practice. <i>Weather and Forecasting</i> , 2020, 35, 2217.	0.5	0
20	Improved Prediction of Landfalling Tropical Cyclone in China Based on Assimilation of Radar Radial Winds with New Super-Observation Processing. <i>Weather and Forecasting</i> , 2020, 35, 2523-2539.	0.5	6
21	Sensitivity of Numerical Simulations of a Mesoscale Convective System to Ice Hydrometeors in Bulk Microphysical Parameterization. <i>Pure and Applied Geophysics</i> , 2019, 176, 2097-2120.	0.8	11
22	Characteristics and variations of low-level jets in the contrasting warm season precipitation extremes of 2006 and 2007 over the Southern Great Plains. <i>Theoretical and Applied Climatology</i> , 2019, 136, 753-771.	1.3	9
23	Characteristics and Variations of Low-Level Jets and Environmental Factors Associated with Summer Precipitation Extremes over the Great Plains. <i>Journal of Climate</i> , 2019, 32, 5123-5144.	1.2	15
24	Genesis of Tibetan Plateau Vortex: Roles of Surface Diabatic and Atmospheric Condensational Latent Heating. <i>Journal of Applied Meteorology and Climatology</i> , 2019, 58, 2633-2651.	0.6	14
25	Sensitivity of Numerical Simulations of Near-Surface Atmospheric Conditions to Snow Depth and Surface Albedo during an Ice Fog Event over Heber Valley. <i>Journal of Applied Meteorology and Climatology</i> , 2019, 58, 797-811.	0.6	8
26	Examining the Impact of SMAP Soil Moisture Retrievals on Short-Range Weather Prediction under Weakly and Strongly Coupled Data Assimilation with WRF-Noah. <i>Monthly Weather Review</i> , 2019, 147, 4345-4366.	0.5	13
27	The Representativeness of Air Quality Monitoring Sites in the Urban Areas of a Mountainous City. <i>Journal of Meteorological Research</i> , 2019, 33, 236-250.	0.9	3
28	Numerical Simulation of Rapid Weakening of Hurricane Joaquin with Assimilation of High-Definition Sounding System Dropsondes during the Tropical Cyclone Intensity Experiment: Comparison of Three- and Four-Dimensional Ensemble Variational Data Assimilation. <i>Weather and Forecasting</i> , 2019, 34, 521-538.	0.5	11
29	Does Soil Moisture Have an Influence on Near-Surface Temperature?. <i>Journal of Geophysical Research D: Atmospheres</i> , 2019, 124, 6444-6466.	1.2	19
30	Impacts of Soil Moisture on the Numerical Simulation of a Post-Landfall Storm. <i>Journal of Meteorological Research</i> , 2019, 33, 206-218.	0.9	13
31	A Review of High Impact Weather for Aviation Meteorology. <i>Pure and Applied Geophysics</i> , 2019, 176, 1869-1921.	0.8	162
32	Sensitivity of Numerical Simulations of Hurricane Joaquin (2015) to Cumulus Parameterization Schemes: Implications for Processes Controlling a Hairpin Turn in the Track. <i>Journal of the Meteorological Society of Japan</i> , 2019, 97, 577-595.	0.7	3
33	A Preliminary Impact Study of CYGNSS Ocean Surface Wind Speeds on Numerical Simulations of Hurricanes. <i>Geophysical Research Letters</i> , 2019, 46, 2984-2992.	1.5	28
34	Reliability Enhancement via Integration of Extreme Weather Forecast in Power System Operation. , 2019, , .		0
35	The Impact of Assimilation of GPM Microwave Imager Clear-Sky Radiance on Numerical Simulations of Hurricanes Joaquin (2015) and Matthew (2016) with the HWRF Model. <i>Monthly Weather Review</i> , 2019, 147, 175-198.	0.5	11
36	Numerical Simulations of an Inversion Fog Event in the Salt Lake Valley during the MATERHORN-Fog Field Campaign. <i>Pure and Applied Geophysics</i> , 2019, 176, 2139-2164.	0.8	10

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37	Impact of Enhanced Atmospheric Motion Vectors on HWRF Hurricane Analyses and Forecasts with Different Data Assimilation Configurations. <i>Monthly Weather Review</i> , 2018, 146, 1549-1569.	0.5	19
38	Impacts of Land-Use Data on the Simulation of Surface Air Temperature in Northwest China. <i>Journal of Meteorological Research</i> , 2018, 32, 896-908.	0.9	12
39	Effects of Updated RegCM4 Land Use Data on Near-Surface Temperature Simulation in China. <i>Journal of Meteorological Research</i> , 2018, 32, 758-767.	0.9	3
40	Characteristics of Background Error Covariance of Soil Moisture and Atmospheric States in Strongly Coupled Land-Atmosphere Data Assimilation. <i>Journal of Applied Meteorology and Climatology</i> , 2018, 57, 2507-2529.	0.6	10
41	Evaluation of the Forecast Accuracy of Near-Surface Temperature and Wind in Northwest China Based on the WRF Model. <i>Journal of Meteorological Research</i> , 2018, 32, 469-490.	0.9	14
42	Numerical simulation of the rapid intensification of Hurricane Katrina (2005): Sensitivity to boundary layer parameterization schemes. <i>Advances in Atmospheric Sciences</i> , 2017, 34, 482-496.	1.9	20
43	Impact of CYGNSS Ocean Surface Wind Speeds on Numerical Simulations of a Hurricane in Observing System Simulation Experiments. <i>Journal of Atmospheric and Oceanic Technology</i> , 2017, 34, 375-383.	0.5	23
44	Effects of Vertical Eddy Diffusivity Parameterization on the Evolution of Landfalling Hurricanes. <i>Journals of the Atmospheric Sciences</i> , 2017, 74, 1879-1905.	0.6	21
45	Effects of Boundary Layer Vertical Mixing on the Evolution of Hurricanes over Land. <i>Monthly Weather Review</i> , 2017, 145, 2343-2361.	0.5	16
46	A View of Tropical Cyclones from Above: The Tropical Cyclone Intensity Experiment. <i>Bulletin of the American Meteorological Society</i> , 2017, 98, 2113-2134.	1.7	63
47	Historical statistics and future changes in long-duration blocking highs in key regions of Eurasia. <i>Theoretical and Applied Climatology</i> , 2017, 130, 1195-1207.	1.3	7
48	Numerical simulations of an advection fog event over Shanghai Pudong International Airport with the WRF model. <i>Journal of Meteorological Research</i> , 2017, 31, 874-889.	0.9	34
49	Simulation and Projection of Blocking Highs in Key Regions of Eurasia by CMIP5 Models. <i>Journal of the Meteorological Society of Japan</i> , 2017, 95, 147-165.	0.7	7
50	Surface Data Assimilation and Near-Surface Weather Prediction over Complex Terrain. , 2017, , 219-240.		4
51	The Impact of Doppler Wind Lidar Measurements on High-Impact Weather Forecasting: Regional OSSE and Data Assimilation Studies. , 2017, , 259-283.		4
52	Influence of the Self-Consistent Regional Ensemble Background Error Covariance on Hurricane Inner-Core Data Assimilation with the GSI-Based Hybrid System for HWRF. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 4911-4925.	0.6	40
53	S4: An O2R/R2O Infrastructure for Optimizing Satellite Data Utilization in NOAA Numerical Modeling Systems: A Step Toward Bridging the Gap between Research and Operations. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 2359-2378.	1.7	18
54	Numerical Prediction of Cold Season Fog Events over Complex Terrain: the Performance of the WRF Model During MATERHORN-Fog and Early Evaluation. <i>Pure and Applied Geophysics</i> , 2016, 173, 3165-3186.	0.8	28

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55	An Overview of the MATERHORN Fog Project: Observations and Predictability. <i>Pure and Applied Geophysics</i> , 2016, 173, 2983-3010.	0.8	50
56	Connections Between Cold Air Pools and Mountain Valley Fog Events in Salt Lake City. <i>Pure and Applied Geophysics</i> , 2016, 173, 3187-3196.	0.8	8
57	The Climatology, Frequency, and Distribution of Cold Season Fog Events in Northern Utah. <i>Pure and Applied Geophysics</i> , 2016, 173, 3197-3211.	0.8	12
58	ANGPTL8 reverses established adriamycin cardiomyopathy by stimulating adult cardiac progenitor cells. <i>Oncotarget</i> , 2016, 7, 80391-80403.	0.8	15
59	Evaluation of double-moment representation of ice hydrometeors in bulk microphysical parameterization: comparison between WRF numerical simulations and UND-Citation data during MC3E. <i>Geoscience Letters</i> , 2015, 2, .	1.3	7
60	Safety and efficacy of intracoronary hypoxia-preconditioned bone marrow mononuclear cell administration for acute myocardial infarction patients: The CHINA-AMI randomized controlled trial. <i>International Journal of Cardiology</i> , 2015, 184, 446-451.	0.8	37
61	The MATERHORN: Unraveling the Intricacies of Mountain Weather. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1945-1967.	1.7	145
62	Enhanced antitumor efficacy of ultrasonic cavitation with up-sized microbubbles in pancreatic cancer. <i>Oncotarget</i> , 2015, 6, 20241-20251.	0.8	14
63	Relationship between Enhanced Intensity of Contrast Enhanced Ultrasound and Microvessel Density of Aortic Atherosclerotic Plaque in Rabbit Model. <i>PLoS ONE</i> , 2014, 9, e92445.	1.1	15
64	Lidar-Measured Wind Profiles: The Missing Link in the Global Observing System. <i>Bulletin of the American Meteorological Society</i> , 2014, 95, 543-564.	1.7	133
65	Impacts of 4DVAR Assimilation of Airborne Doppler Radar Observations on Numerical Simulations of the Genesis of Typhoon Nuri (2008). <i>Journal of Applied Meteorology and Climatology</i> , 2014, 53, 2325-2343.	0.6	13
66	Influence of Assimilating Surface Observations on Numerical Prediction of Landfalls of Hurricane Katrina (2005) with an Ensemble Kalman Filter. <i>Monthly Weather Review</i> , 2014, 142, 2915-2934.	0.5	23
67	Numerical Simulations of the Genesis of Typhoon Nuri (2008): Sensitivity to Initial Conditions and Implications for the Roles of Intense Convection and Moisture Conditions. <i>Weather and Forecasting</i> , 2014, 29, 1402-1424.	0.5	11
68	Numerical Simulation of the Life Cycle of a Persistent Wintertime Inversion over Salt Lake City. <i>Boundary-Layer Meteorology</i> , 2013, 148, 399-418.	1.2	22
69	A novel therapeutic strategy using ultrasound mediated microbubbles destruction to treat colon cancer in a mouse model. <i>Cancer Letters</i> , 2013, 335, 183-190.	3.2	34
70	Examination of Errors in Near-Surface Temperature and Wind from WRF Numerical Simulations in Regions of Complex Terrain. <i>Weather and Forecasting</i> , 2013, 28, 893-914.	0.5	123
71	Ensemble Kalman filter assimilation of near-surface observations over complex terrain: comparison with 3DVAR for short-range forecasts. <i>Tellus, Series A: Dynamic Meteorology and Oceanography</i> , 2013, 65, 19620.	0.8	40
72	Characteristics of stratosphere-troposphere exchange during the Meiyu season. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013, 118, 2058-2072.	1.2	13

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73	The Influence of Airborne Doppler Radar Data Quality on Numerical Simulations of a Tropical Cyclone. <i>Weather and Forecasting</i> , 2012, 27, 231-239.	0.5	10
74	Characteristics of tropical cyclone precipitation features over the western Pacific warm pool. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	6
75	Characteristics and Numerical Simulations of Extremely Large Atmospheric Boundary-layer Heights over an Arid Region in North-west China. <i>Boundary-Layer Meteorology</i> , 2011, 140, 163-176.	1.2	28
76	Four-Dimensional Assimilation of Multitime Wind Profiles over a Single Station and Numerical Simulation of a Mesoscale Convective System Observed during IHOP_2002. <i>Monthly Weather Review</i> , 2011, 139, 3369-3388.	0.5	10
77	Impact of Stochastic Convection on Ensemble Forecasts of Tropical Cyclone Development. <i>Monthly Weather Review</i> , 2011, 139, 620-626.	0.5	8
78	An Observing System Simulation Experiment (OSSE) to Assess the Impact of Doppler Wind Lidar (DWL) Measurements on the Numerical Simulation of a Tropical Cyclone. <i>Advances in Meteorology</i> , 2010, 2010, 1-14.	0.6	17
79	Beating the Uncertainties: Ensemble Forecasting and Ensemble-Based Data Assimilation in Modern Numerical Weather Prediction. <i>Advances in Meteorology</i> , 2010, 2010, 1-10.	0.6	19
80	Impact of airborne Doppler wind lidar profiles on numerical simulations of a tropical cyclone. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	25
81	Validation of Atmospheric Infrared Sounder temperature and moisture profiles over tropical oceans and their impact on numerical simulations of tropical cyclones. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33
82	Tracking and Verification of East Atlantic Tropical Cyclone Genesis in the NCEP Global Ensemble: Case Studies during the NASA African Monsoon Multidisciplinary Analyses. <i>Weather and Forecasting</i> , 2010, 25, 1397-1411.	0.5	17
83	Sensitivity of Numerical Simulations of the Early Rapid Intensification of Hurricane Emily to Cumulus Parameterization Schemes in Different Model Horizontal Resolutions. <i>Journal of the Meteorological Society of Japan</i> , 2009, 87, 403-421.	0.7	40
84	Diagnosis of the Initial and Forecast Errors in the Numerical Simulation of the Rapid Intensification of Hurricane Emily (2005). <i>Weather and Forecasting</i> , 2009, 24, 1236-1251.	0.5	21
85	Impact of Airborne Doppler Radar Data Assimilation on the Numerical Simulation of Intensity Changes of Hurricane Dennis near a Landfall. <i>Journals of the Atmospheric Sciences</i> , 2009, 66, 3351-3365.	0.6	65
86	MODIS/Terra observed snow cover over the Tibet Plateau: distribution, variation and possible connection with the East Asian Summer Monsoon (EASM). <i>Theoretical and Applied Climatology</i> , 2009, 97, 265-278.	1.3	73
87	Ensemble-based Kalman filters in strongly nonlinear dynamics. <i>Advances in Atmospheric Sciences</i> , 2009, 26, 373-380.	1.9	17
88	Runoff-denoted drought index and its relationship to the yields of spring wheat in the arid area of Hexi corridor, Northwest China. <i>Agricultural Water Management</i> , 2009, 96, 666-676.	2.4	19
89	Assimilation of Satellite Data in Improving Numerical Simulation of Tropical Cyclones: Progress, Challenge and Development. , 2009, , 163-176.		9
90	The Impact of Aircraft Dropsonde and Satellite Wind Data on Numerical Simulations of Two Landfalling Tropical Storms during the Tropical Cloud Systems and Processes Experiment. <i>Weather and Forecasting</i> , 2008, 23, 62-79.	0.5	59

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91	Sensitivity of Numerical Simulation of Early Rapid Intensification of Hurricane Emily (2005) to Cloud Microphysical and Planetary Boundary Layer Parameterizations. Monthly Weather Review, 2008, 136, 4819-4838.	0.5	141
92	MODIS/Terra observed seasonal variations of snow cover over the Tibetan Plateau. Geophysical Research Letters, 2007, 34, .	1.5	242
93	High-Resolution Simulation of Hurricane Bonnie (1998). Part I: The Organization of Eyewall Vertical Motion. Journals of the Atmospheric Sciences, 2006, 63, 19-42.	0.6	148
94	Mesoscale Assimilation of TMI Rainfall Data with 4DVAR: Sensitivity Studies. Journal of the Meteorological Society of Japan, 2004, 82, 1389-1397.	0.7	11
95	Variations Associated with Cores and Gaps of a Pacific Narrow Cold Frontal Rainband. Monthly Weather Review, 2003, 131, 2705-2729.	0.5	39
96	The Impact of TRMM Data on Mesoscale Numerical Simulation of Supertyphoon Paka. Monthly Weather Review, 2002, 130, 2448-2458.	0.5	61
97	Evaluation of Bogus Vortex Techniques with Four-Dimensional Variational Data Assimilation. Monthly Weather Review, 2001, 129, 2023-2039.	0.5	95
98	Application of the Quasi-Inverse Method to Data Assimilation. Monthly Weather Review, 2000, 128, 864-875.	0.5	42
99	The NCEP Global Analysis System : Recent Improvements and Future Plans (gtSpecial IssueltData) Tj ETQq1 1 0.784314 rgBT /Overloc Society of Japan, 1997, 75, 359-365.	0.7	38
100	The Use of Bred Vectors in the NCEP Global 3D Variational Analysis System. Weather and Forecasting, 1997, 12, 689-695.	0.5	24
101	Sensitivity of Forecast Errors to Initial Conditions with a Quasi-Inverse Linear Method. Monthly Weather Review, 1997, 125, 2479-2503.	0.5	65
102	How Vertical Wind Shear Affects Tropical Cyclone Intensity Change: An Overview. , 0, , .		2