

James M Wilczak

List of Publications by Year in descending order

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Version: 2024-02-01

29
papers

1,168
citations

471371

17
h-index

477173

29
g-index

31
all docs

31
docs citations

31
times ranked

1349
citing authors

#	ARTICLE	IF	CITATIONS
1	Assessment of an ensemble of seven real-time ozone forecasts over eastern North America during the summer of 2004. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	175
2	Evaluation of several PM2.5 forecast models using data collected during the ICARTT/NEAQS 2004 field study. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	166
3	PM2.5 analog forecast and Kalman filter post-processing for the Community Multiscale Air Quality (CMAQ) model. <i>Atmospheric Environment</i> , 2015, 108, 76-87.	1.9	97
4	The Wind Forecast Improvement Project (WFIP): A Public-Private Partnership Addressing Wind Energy Forecast Needs. <i>Bulletin of the American Meteorological Society</i> , 2015, 96, 1699-1718.	1.7	85
5	An evaluation of real-time air quality forecasts and their urban emissions over eastern Texas during the summer of 2006 Second Texas Air Quality Study field study. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	69
6	The Second Wind Forecast Improvement Project (WFIP2): Observational Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1701-1723.	1.7	55
7	A Kalman-filter bias correction method applied to deterministic, ensemble averaged and probabilistic forecasts of surface ozone. <i>Tellus, Series B: Chemical and Physical Meteorology</i> , 2022, 60, 238.	0.8	48
8	Convective Boundary Layer Depth Estimation from Wind Profilers: Statistical Comparison between an Automated Algorithm and Expert Estimations. <i>Journal of Atmospheric and Oceanic Technology</i> , 2008, 25, 1397-1413.	0.5	46
9	Bias-corrected ensemble and probabilistic forecasts of surface ozone over eastern North America during the summer of 2004. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	45
10	Improving NOAA NAQFC PM2.5 Predictions with a Bias Correction Approach. <i>Weather and Forecasting</i> , 2017, 32, 407-421.	0.5	45
11	The Second Wind Forecast Improvement Project (WFIP2): General Overview. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1687-1699.	1.7	45
12	Connecting Land-Atmosphere Interactions to Surface Heterogeneity in CHEESEHEAD19. <i>Bulletin of the American Meteorological Society</i> , 2021, 102, E421-E445.	1.7	40
13	A Wind Energy Ramp Tool and Metric for Measuring the Skill of Numerical Weather Prediction Models. <i>Weather and Forecasting</i> , 2016, 31, 1137-1156.	0.5	31
14	Analysis of regional meteorology and surface ozone during the TexAQS II field program and an evaluation of the NMM-CMAQ and WRF-Chem air quality models. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	28
15	Identification and Characterization of Persistent Cold Pool Events from Temperature and Wind Profilers in the Columbia River Basin. <i>Journal of Applied Meteorology and Climatology</i> , 2019, 58, 2533-2551.	0.6	23
16	Assessment of NWP Forecast Models in Simulating Offshore Winds through the Lower Boundary Layer by Measurements from a Ship-Based Scanning Doppler Lidar. <i>Monthly Weather Review</i> , 2017, 145, 4277-4301.	0.5	20
17	Evaluating and Improving NWP Forecast Models for the Future: How the Needs of Offshore Wind Energy Can Point the Way. <i>Bulletin of the American Meteorological Society</i> , 2018, 99, 1155-1176.	1.7	19
18	On the surface energy balance closure at different temporal scales. <i>Agricultural and Forest Meteorology</i> , 2020, 281, 107823.	1.9	19

#	ARTICLE	IF	CITATIONS
19	Impact of model improvements on 80% wind speeds during the second Wind Forecast Improvement Project (WFIP2). <i>Geoscientific Model Development</i> , 2019, 12, 4803-4821.	1.3	18
20	PM2.5 analog forecast and Kalman filter post-processing for the Community Multiscale Air Quality (CMAQ) model. <i>Atmospheric Environment</i> , 2015, 119, 431-442.	1.9	17
21	The POWER Experiment: Impact of Assimilation of a Network of Coastal Wind Profiling Radars on Simulating Offshore Winds in and above the Wind Turbine Layer. <i>Weather and Forecasting</i> , 2016, 31, 1071-1091.	0.5	14
22	Mountain waves can impact wind power generation. <i>Wind Energy Science</i> , 2021, 6, 45-60.	1.2	14
23	Data assimilation impact of in situ and remote sensing meteorological observations on wind power forecasts during the first Wind Forecast Improvement Project (WFIP). <i>Wind Energy</i> , 2019, 22, 932-944.	1.9	13
24	Measuring the impact of additional instrumentation on the skill of numerical weather prediction models at forecasting wind ramp events during the first Wind Forecast Improvement Project (WFIP). <i>Wind Energy</i> , 2019, 22, 1165-1174.	1.9	9
25	Evaluating convective planetary boundary layer height estimations resolved by both active and passive remote sensing instruments during the CHEESEHEAD19 field campaign. <i>Atmospheric Measurement Techniques</i> , 2022, 15, 2479-2502.	1.2	9
26	Evaluating the WFIP2 updates to the HRRR model using scanning Doppler lidar measurements in the complex terrain of the Columbia River Basin. <i>Journal of Renewable and Sustainable Energy</i> , 2020, 12, .	0.8	8
27	Investigating the Impacts of Daytime Boundary Layer Clouds on Surface Energy Fluxes and Boundary Layer Structure During CHEESEHEAD19. <i>Journal of Geophysical Research D: Atmospheres</i> , 2022, 127, .	1.2	5
28	Upper-ocean thermal structure and heat content off the US West Coast during the 1997-1998 El Niño event based on AXBT and satellite altimetry data. <i>Progress in Oceanography</i> , 2007, 74, 48-70.	1.5	1
29	Use of Remote Sensors in Air Quality Monitoring and Prediction. , 2011, , 209-240.		0