

# Joseph B Olson

## List of Publications by Year in descending order

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36  
papers

2,080  
citations

430874

18  
h-index

330143

37  
g-index

39  
all docs

39  
docs citations

39  
times ranked

2200  
citing authors

#	ARTICLE	IF	CITATIONS
1	A North American Hourly Assimilation and Model Forecast Cycle: The Rapid Refresh. <i>Monthly Weather Review</i> , 2016, 144, 1669-1694.	1.4	720
2	Local and Mesoscale Impacts of Wind Farms as Parameterized in a Mesoscale NWP Model. <i>Monthly Weather Review</i> , 2012, 140, 3017-3038.	1.4	236
3	Understanding high wintertime ozone pollution events in an oil- and natural gas-producing region of the western US. <i>Atmospheric Chemistry and Physics</i> , 2015, 15, 411-429.	4.9	154
4	Mesoscale Influences of Wind Farms throughout a Diurnal Cycle. <i>Monthly Weather Review</i> , 2013, 141, 2173-2198.	1.4	109
5	Improving Wind Energy Forecasting through Numerical Weather Prediction Model Development. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 2201-2220.	3.3	87
6	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.	3.3	85
7	Parameterization of Wind Farms in Climate Models. <i>Journal of Climate</i> , 2013, 26, 6439-6458.	3.2	77
8	A Performance Comparison between Multiphysics and Stochastic Approaches within a North American RAP Ensemble. <i>Monthly Weather Review</i> , 2017, 145, 1161-1179.	1.4	62
9	The Second Wind Forecast Improvement Project (WFIP2): Observational Field Campaign. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1701-1723.	3.3	55
10	Multiseason Verification of the MM5. Part I: Comparison with the Eta Model over the Central and Eastern United States and Impact of MM5 Resolution. <i>Weather and Forecasting</i> , 2003, 18, 431-457.	1.4	49
11	The Second Wind Forecast Improvement Project (WFIP2): General Overview. <i>Bulletin of the American Meteorological Society</i> , 2019, 100, 1687-1699.	3.3	45
12	Stochastically Perturbed Parameterizations in an HRRR-Based Ensemble. <i>Monthly Weather Review</i> , 2019, 147, 153-173.	1.4	42
13	Multiseason Verification of the MM5. Part II: Evaluation of High-Resolution Precipitation Forecasts over the Northeastern United States. <i>Weather and Forecasting</i> , 2003, 18, 458-480.	1.4	39
14	Shallow Cumulus in WRF Parameterizations Evaluated against LASSO Large-Eddy Simulations. <i>Monthly Weather Review</i> , 2018, 146, 4303-4322.	1.4	36
15	Incorporation of the Rotor-Equivalent Wind Speed into the Weather Research and Forecasting Model's Wind Farm Parameterization. <i>Monthly Weather Review</i> , 2019, 147, 1029-1046.	1.4	26
16	Spatial Variability of Winds and HRRR's NCEP Model Error Statistics at Three Doppler-Lidar Sites in the Wind-Energy Generation Region of the Columbia River Basin. <i>Journal of Applied Meteorology and Climatology</i> , 2019, 58, 1633-1656.	1.5	25
17	Using SAR Remote Sensing, Field Observations, and Models to Better Understand Coastal Flows in the Gulf of Alaska. <i>Bulletin of the American Meteorological Society</i> , 2006, 87, 787-800.	3.3	22
18	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.	1.4	20

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19	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.	3.3	19
20	Sensitivity of Turbine-Height Wind Speeds to Parameters in the Planetary Boundary-Layer Parametrization Used in the Weather Research and Forecasting Model: Extension to Wintertime Conditions. <i>Boundary-Layer Meteorology</i> , 2019, 170, 507-518.	2.3	19
21	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.	3.6	18
22	Three-Dimensional Idealized Simulations of Barrier Jets along the Southeast Coast of Alaska. <i>Monthly Weather Review</i> , 2009, 137, 391-413.	1.4	15
23	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.	1.4	14
24	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.	4.2	13
25	A Progress Report on the Development of the High-Resolution Rapid Refresh Ensemble. <i>Weather and Forecasting</i> , 2021, 36, 791-804.	1.4	13
26	A Modified Approach to Initialize an Idealized Extratropical Cyclone within a Mesoscale Model. <i>Monthly Weather Review</i> , 2007, 135, 1614-1624.	1.4	11
27	Characterizing NWP Model Errors Using Doppler-Lidar Measurements of Recurrent Regional Diurnal Flows: Marine-Air Intrusions into the Columbia River Basin. <i>Monthly Weather Review</i> , 2020, 148, 929-953.	1.4	11
28	A Comparison of Two Coastal Barrier Jet Events along the Southeast Alaskan Coast during the SARJET Field Experiment*. <i>Monthly Weather Review</i> , 2007, 135, 3642-3663.	1.4	11
29	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.	4.2	9
30	A Comparison of Two Coastal Barrier Jet Events along the Southeast Alaskan Coast during the SARJET Field Experiment. <i>Monthly Weather Review</i> , 2007, 135, 2973-2994.	1.4	8
31	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, .	2.0	8
32	Time Evolution and Diurnal Variability of the Parametric Sensitivity of Turbine-Height Winds in the MYNN-EDMF Parameterization. <i>Journal of Geophysical Research D: Atmospheres</i> , 2021, 126, e2020JD034000.	3.3	6
33	Scale Awareness, Resolved Circulations, and Practical Limits in the MYNN-EDMF Boundary Layer and Shallow Cumulus Scheme. <i>Monthly Weather Review</i> , 2020, 148, 4629-4639.	1.4	4
34	Wind Ramp Events Validation in NWP Forecast Models during the Second Wind Forecast Improvement Project (WFIP2) Using the Ramp Tool and Metric (RT&M). <i>Weather and Forecasting</i> , 2020, 35, 2407-2421.	1.4	4
35	Improved Prediction of Cold-Air Pools in the Weather Research and Forecasting Model Using a Truly Horizontal Diffusion Scheme for Potential Temperature. <i>Monthly Weather Review</i> , 2021, 149, 155-171.	1.4	3
36	Doppler-Lidar Evaluation of HRRR-Model Skill at Simulating Summertime Wind Regimes in the Columbia River Basin during WFIP2. <i>Weather and Forecasting</i> , 2021, , .	1.4	1