

Daniel T Dawson II

List of Publications by Year in descending order

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Version: 2024-02-01

28
papers

1,110
citations

394421

19
h-index

501196

28
g-index

28
all docs

28
docs citations

28
times ranked

632
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 1 | An Idealized Physical Model for the Severe Convective Storm Environmental Sounding. <i>Journals of the Atmospheric Sciences</i> , 2021, 78, 653-670. | 1.7 | 8 |
| 2 | A Triple-Moment Representation of Ice in the Predicted Particle Properties (P3) Microphysics Scheme. <i>Journals of the Atmospheric Sciences</i> , 2021, 78, 439-458. | 1.7 | 26 |
| 3 | The Role of Elevated Terrain and the Gulf of Mexico in the Production of Severe Local Storm Environments over North America. <i>Journal of Climate</i> , 2021, 34, 7799-7819. | 3.2 | 3 |
| 4 | Ceilometer-Based Rain-Rate Estimation: A Case-Study Comparison With S-Band Radar and Disdrometer Retrievals in the Context of VORTEX-SE. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2020, 58, 8268-8284. | 6.3 | 3 |
| 5 | The Effect of Surface Drag Strength on Mesocyclone Intensification and Tornadogenesis in Idealized Supercell Simulations. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 1699-1721. | 1.7 | 16 |
| 6 | Bin-Emulating Hail Melting in Three-Moment Bulk Microphysics. <i>Journals of the Atmospheric Sciences</i> , 2020, 77, 3361-3385. | 1.7 | 4 |
| 7 | Climatology of Severe Local Storm Environments and Synoptic-Scale Features over North America in ERA5 Reanalysis and CAM6 Simulation. <i>Journal of Climate</i> , 2020, 33, 8339-8365. | 3.2 | 39 |
| 8 | Students of Purdue Observing Tornadoic Thunderstorms for Research (SPOTTR) A Severe Storms Field Work Course at Purdue University. <i>Bulletin of the American Meteorological Society</i> , 2020, 101, E847-E868. | 3.3 | 5 |
| 9 | A Method to Control the Environmental Wind Profile in Idealized Simulations of Deep Convection with Surface Friction. <i>Monthly Weather Review</i> , 2019, 147, 3935-3954. | 1.4 | 7 |
| 10 | Evaluation of Unified Model Microphysics in High-resolution NWP Simulations Using Polarimetric Radar Observations. <i>Advances in Atmospheric Sciences</i> , 2018, 35, 771-784. | 4.3 | 10 |
| 11 | Simulations of Polarimetric, X-Band Radar Signatures in Supercells. Part I: Description of Experiment and Simulated ihv Rings. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 1977-1999. | 1.5 | 22 |
| 12 | Simulations of Polarimetric, X-Band Radar Signatures in Supercells. Part II: ZDR Columns and Rings and KDP Columns. <i>Journal of Applied Meteorology and Climatology</i> , 2017, 56, 2001-2026. | 1.5 | 31 |
| 13 | The Role of Surface Drag in Tornadogenesis within an Idealized Supercell Simulation. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 3371-3395. | 1.7 | 61 |
| 14 | Sensitivity of Real-Data Simulations of the 3 May 1999 Oklahoma City Tornadoic Supercell and Associated Tornadoes to Multimoment Microphysics. Part II: Analysis of Buoyancy and Dynamic Pressure Forces in Simulated Tornado-Like Vortices. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 1039-1061. | 1.7 | 21 |
| 15 | Comparison of Simulated Polarimetric Signatures in Idealized Supercell Storms Using Two-Moment Bulk Microphysics Schemes in WRF. <i>Monthly Weather Review</i> , 2016, 144, 971-996. | 1.4 | 50 |
| 16 | The Cause of Internal Outflow Surges in a High-Resolution Simulation of the 8 May 2003 Oklahoma City Tornadoic Supercell. <i>Journals of the Atmospheric Sciences</i> , 2016, 73, 353-370. | 1.7 | 39 |
| 17 | Sensitivity of Real-Data Simulations of the 3 May 1999 Oklahoma City Tornadoic Supercell and Associated Tornadoes to Multimoment Microphysics. Part I: Storm- and Tornado-Scale Numerical Forecasts. <i>Monthly Weather Review</i> , 2015, 143, 2241-2265. | 1.4 | 40 |
| 18 | Does Wind Shear Cause Hydrometeor Size Sorting?. <i>Journals of the Atmospheric Sciences</i> , 2015, 72, 340-348. | 1.7 | 52 |

| # | ARTICLE | IF | CITATIONS |
|----|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----|-----------|
| 19 | Diagnosing the Intercept Parameters of the Exponential Drop Size Distributions in a Single-Moment Microphysics Scheme and Impact on Supercell Storm Simulations. <i>Journal of Applied Meteorology and Climatology</i> , 2014, 53, 2072-2090. | 1.5 | 34 |
| 20 | Low-Level ZDR Signatures in Supercell Forward Flanks: The Role of Size Sorting and Melting of Hail. <i>Journals of the Atmospheric Sciences</i> , 2014, 71, 276-299. | 1.7 | 100 |
| 21 | Progress and challenges with Warn-on-Forecast. <i>Atmospheric Research</i> , 2013, 123, 2-16. | 4.1 | 151 |
| 22 | EnKF Assimilation of High-Resolution, Mobile Doppler Radar Data of the 4 May 2007 Greensburg, Kansas, Supercell into a Numerical Cloud Model. <i>Monthly Weather Review</i> , 2013, 141, 625-648. | 1.4 | 28 |
| 23 | The Dependence of QPF on the Choice of Microphysical Parameterization for Lake-Effect Snowstorms. <i>Journal of Applied Meteorology and Climatology</i> , 2013, 52, 363-377. | 1.5 | 23 |
| 24 | Low-Level Polarimetric Radar Signatures in EnKF Analyses and Forecasts of the May 8, 2003 Oklahoma City Tornado Supercell: Impact of Multimoment Microphysics and Comparisons with Observation. <i>Advances in Meteorology</i> , 2013, 2013, 1-13. | 1.6 | 8 |
| 25 | Impact of the Environmental Low-Level Wind Profile on Ensemble Forecasts of the 4 May 2007 Greensburg, Kansas, Tornado Storm and Associated Mesocyclones. <i>Monthly Weather Review</i> , 2012, 140, 696-716. | 1.4 | 71 |
| 26 | Comparison of Evaporation and Cold Pool Development between Single-Moment and Multimoment Bulk Microphysics Schemes in Idealized Simulations of Tornadoic Thunderstorms. <i>Monthly Weather Review</i> , 2010, 138, 1152-1171. | 1.4 | 177 |
| 27 | Diagnosing the Intercept Parameter for Exponential Raindrop Size Distribution Based on Video Disdrometer Observations: Model Development. <i>Journal of Applied Meteorology and Climatology</i> , 2008, 47, 2983-2992. | 1.5 | 56 |
| 28 | Numerical Forecasts of the 15â€“16 June 2002 Southern Plains Mesoscale Convective System: Impact of Mesoscale Data and Cloud Analysis. <i>Monthly Weather Review</i> , 2006, 134, 1607-1629. | 1.4 | 25 |