# D R Jackson

List of Publications by Year
in descending order



| 67 | 2,085 | 257450 24 | 265206 42 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 74 | 74 | 74 | 2554 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Small Satellite Mission Concepts for Space Weather Research and as Pathfinders for Operations. Space Weather, 2022, 20, e2020SW002554. | 3.7 | 6 |
| 2 | Geomagnetic Activity Index Hpo. Geophysical Research Letters, 2022, 49, . | 4.0 | 24 |
| 3 | Achievements and Lessons Learned From Successful Small Satellite Missions for Space Weatherâ€Oriented Research. Space Weather, 2022, 20, . | 3.7 | 4 |
| 4 | Impact of Inner Heliospheric Boundary Conditions on Solar Wind Predictions at Earth. Space Weather, 2021, 19, e2020SW002499. | 3.7 | 15 |
| 5 | The flare likelihood and region eruption forecasting (FLARECAST) project: flare forecasting in the big data & machine learning era. Journal of Space Weather and Space Climate, 2021, 11, 39. | 3.3 | 24 |
| 6 | Addressing Gaps in Space Weather Operations and Understanding With Small Satellites. Space Weather, 2021, 19, e2020SW002566. | 3.7 | 5 |
| 7 | Development of Space Weather Reasonable Worstâ€Case Scenarios for the UK National Risk Assessment. Space Weather, 2021, 19, e2020SW002593. | 3.7 | 41 |
| 8 | Stratospheric gravity waves over the mountainous island of South Georgia: testing a high-resolution dynamical model with 3-D satellite observations and radiosondes. Atmospheric Chemistry and Physics, 2021, 21, 7695-7722. | 4.9 | 7 |
| 9 | Winds and tides of the Extended Unified Model in the mesosphere and lower thermosphere validated with meteor radar observations. Annales Geophysicae, 2021, 39, 487-514. | 1.6 | 7 |
| 10 | Evaluating Auroral Forecasts Against Satellite Observations. Space Weather, 2021, 19, e2020SW002688. | 3.7 | 3 |
| 11 | Probabilistic Forecasts of Storm Sudden Commencements From Interplanetary Shocks Using Machine Learning. Space Weather, 2020, 18, e2020SW002603. | 3.7 | 18 |
| 12 | International Coordination and Support for SmallSatâ€Enabled Space Weather Activities. Space Weather, 2020, 18, e2020SW002568. | 3.7 | 2 |
| 13 | Stable extension of the unified model into the mesosphere and lower thermosphere. Journal of Space Weather and Space Climate, 2020, 10, 19. | 3.3 | 6 |
| 14 | The Space Weather Atmosphere Models and Indices (SWAMI) project: Overview and first results. Journal of Space Weather and Space Climate, 2020, 10, 18. | 3.3 | 15 |
| 15 | Examining Local Time Variations in the Gains and Losses of Open Magnetic Flux During Substorms. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027369. | 2.4 | 6 |
| 16 | Incorporation of Heliospheric Imagery Into the CME Analysis Tool for Improvement of CME Forecasting. Space Weather, 2019, 17, 1312-1328. | 3.7 | 3 |
| 17 | How well do we forecast the aurora?. Astronomy and Geophysics, 2019, 60, 5.22-5.25. | 0.2 | 1 |
| 18 | Future Directions for Whole Atmosphere Modeling: Developments in the Context of Space Weather. Space Weather, 2019, 17, 1342-1350. | 3.7 | 16 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | A Citizen Science Network for Measurements of Atmospheric Ionizing Radiation Levels. Space Weather, 2019, 17, 877-893. | 3.7 | 4 |
| 20 | Measurement of Ionospheric Total Electron Content Using Singleâ€Frequency Geostationary Satellite Observations. Radio Science, 2019, 54, 10-19. | 1.6 | 14 |
| 21 | Modeling Geoelectric Fields in Ireland and the UK for Space Weather Applications. Space Weather, 2019, 17, 216-237. | 3.7 | 21 |
| 22 | The South Georgia Wave Experiment: A Means for Improved Analysis of Gravity Waves and Low-Level Wind Impacts Generated from Mountainous Islands. Bulletin of the American Meteorological Society, 2018, 99, 1027-1040. | 3.3 | 13 |
| 23 | Flare forecasting at the Met Office Space Weather Operations Centre. Space Weather, 2017, 15, 577-588. | 3.7 | 52 |
| 24 | Introduction to the SPARC Reanalysis Intercomparison ProjectÂ(S-RIP) and overview of the reanalysis systems. Atmospheric Chemistry and Physics, 2017, 17, 1417-1452. | 4.9 | 276 |
| 25 | Examining the Predictability of the Stratospheric Sudden Warming of January 2013 Using Multiple NWP Systems. Monthly Weather Review, 2016, 144, 1935-1960. | 1.4 | 62 |
| 26 | The predictability of the extratropical stratosphere on monthly timeâ€scales and its impact on the skill of tropospheric forecasts. Quarterly Journal of the Royal Meteorological Society, 2015, 141, 987-1003. | 2.7 | 162 |
| 27 | Assessing the performance of thermospheric modeling with data assimilation throughout solar cycles 23 and 24. Space Weather, 2015, 13, 220-232. | 3.7 | 23 |
| 28 | Validation of a priori CME arrival predictions made using realâ€time heliospheric imager observations. Space Weather, 2015, 13, 35-48. | 3.7 | 27 |
| 29 | Parameterized Gravity Wave Momentum Fluxes from Sources Related to Convection and Large-Scale Precipitation Processes in a Global Atmosphere Model. Journals of the Atmospheric Sciences, 2015, 72, 4349-4371. | 1.7 | 41 |
| 30 | Using the UM dynamical cores to reproduce idealised 3-D flows. Geoscientific Model Development, 2014, 7, 3059-3087. | 3.6 | 47 |
| 31 | Offline estimates and tuning of mesospheric gravityâ€wave forcing using Met Office analyses. Quarterly Journal of the Royal Meteorological Society, 2014, 140, 1025-1038. | 2.7 | 3 |
| 32 | Impact of EOS MLS ozone data on mediumâ€extended range ensemble weather forecasts. Journal of Geophysical Research D: Atmospheres, 2014, 119, 9253-9266. | 3.3 | 25 |
| 33 | Ionospheric imaging in Africa. Radio Science, 2014, 49, 19-27. | 1.6 | 14 |
| 34 | The unified model, a fully-compressible, non-hydrostatic, deep atmosphere global circulation model, applied to hot Jupiters. Astronomy and Astrophysics, 2014, 561, A1. | 5.1 | 124 |
| 35 | Improved variational analyses using a nonlinear humidity control variable. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 1875-1887. | 2.7 | 43 |
| 36 | Validation of Met Office upper stratospheric and mesospheric analyses. Quarterly Journal of the Royal Meteorological Society, 2013, 139, 1214-1228. | 2.7 | 8 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | A comparison of the effects of initializing different thermosphereâ€ionosphere model fields on storm time plasma density forecasts. Journal of Geophysical Research: Space Physics, 2013, 118, 7329-7337. | 2.4 | 22 |
| 38 | Reconciliation of essential process parameters for an enhanced predictability of Arctic stratospheric ozone loss and its climate interactions (RECONCILE): activities and results. Atmospheric Chemistry and Physics, 2013, 13, 9233-9268. | 4.9 | 88 |
| 39 | Impacts of introducing a convective gravityâ€wave parameterization upon the QBO in the Met Office Unified Model. Geophysical Research Letters, 2013, 40, 1873-1877. | 4.0 | 41 |
| 40 | A 27 day persistence model of nearâ€Earth solar wind conditions: A long leadâ€time forecast and a benchmark for dynamical models. Space Weather, 2013, 11, 225-236. | 3.7 | 58 |
| 41 | The use of ionosondes in GPS ionospheric tomography at low latitudes. Journal of Geophysical Research, 2012, 117, . | 3.3 | 17 |
| 42 | A 12year comparison of MIDAS and IRI 2007 ionospheric Total Electron Content. Advances in Space Research, 2012, 49, 1348-1355. | 2.6 | 20 |
| 43 | Low-ozone events in the southern polar summer as indicated by Met Office ozone analyses. Journal of Geophysical Research, 2011, 116, . | 3.3 | 2 |
| 44 | Estimation of Arctic O<sub>3</sub> loss during winter 2006/2007 using data assimilation and comparison with a chemical transport model. Quarterly Journal of the Royal Meteorological Society, 2011, 137, 118-128. | 2.7 | 14 |
| 45 | Sensitivity of GCM tropical middle atmosphere variability and climate to ozone and parameterized gravity wave changes. Journal of Geophysical Research, 2010, 115, . | 3.3 | 16 |
| 46 | The ASSET intercomparison of stratosphere and lower mesosphere humidity analyses. Atmospheric Chemistry and Physics, 2009, 9, 995-1016. | 4.9 | 16 |
| 47 | Use of Canadian Quick covariances in the Met Office data assimilation system. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 1567-1582. | 2.7 | 15 |
| 48 | Estimation of Arctic ozone loss in winter 2004/05 based on assimilation of EOS MLS and SBUV/2 observations. Quarterly Journal of the Royal Meteorological Society, 2008, 134, 1833-1841. | 2.7 | 26 |
| 49 | The Assimilation of Envisat data (ASSET) project. Atmospheric Chemistry and Physics, 2007, 7, 1773-1796. | 4.9 | 69 |
| 50 | Evaluation of linear ozone photochemistry parametrizations in a stratosphere-troposphere data assimilation system. Atmospheric Chemistry and Physics, 2007, 7, 939-959. | 4.9 | 40 |
| 51 | The January 2006 low ozone event over the UK. Atmospheric Chemistry and Physics, 2007, 7, 961-972. | 4.9 | 28 |
| 52 | Assimilation of EOS MLS ozone observations in the Met Office dataâ€assimilation system. Quarterly Journal of the Royal Meteorological Society, 2007, 133, 1771-1788. | 2.7 | 36 |
| 53 | The ASSET intercomparison of ozone analyses: method and first results. Atmospheric Chemistry and Physics, 2006, 6, 5445-5474. | 4.9 | 110 |
| 54 | Assimilation of stratospheric ozone from MIPAS into a global general-circulation model: The September 2002 vortex split. Quarterly Journal of the Royal Meteorological Society, 2006, 132, 231-257. | 2.7 | 26 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Stratospheric Vacillations and the Major Warming over Antarctica in 2002. Journals of the Atmospheric Sciences, 2005, 62, 629-639. | 1.7 | 34 |
| 56 | An observing system simulation experiment to evaluate the scientific merit of wind and ozone measurements from the future SWIFT instrument. Quarterly Journal of the Royal Meteorological Society, 2005, 131, 503-523. | 2.7 | 45 |
| 57 | An Updated Climatology of the Troposphereâ€“Stratosphere Configuration of the Met Office's Unified Model. Journals of the Atmospheric Sciences, 2001, 58, 2000-2008. | 1.7 | 6 |
| 58 | The Representation of Water Vapor and Its Dependence on Vertical Resolution in the Hadley Centre Climate Model. Journal of Climate, 2001, 14, 3065-3085. | 3.2 | 51 |
| 59 | Transport in the Low-Latitude Tropopause Zone Diagnosed Using Particle Trajectories. Journals of the Atmospheric Sciences, 2001, 58, 173-192. | 1.7 | 19 |
| 60 | Troposphere to stratosphere transport at low latitudes as studies using HALOE observations of water vapour 1992â€“1997. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 169-192. | 2.7 | 34 |
| 61 | The semi-annual oscillation in upper stratospheric and mesospheric water vapour as observed by HALOE. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 2493-2515. | 2.7 | 14 |
| 62 | The semi-annual oscillation in upper stratospheric and mesospheric water vapour as observed by HALOE. Quarterly Journal of the Royal Meteorological Society, 1998, 124, 2493-2515. | 2.7 | 3 |
| 63 | Simulation of the semi-annual oscillation of the equatorial middle atmosphere using the Extended UGAMP General Circulation Model. Quarterly Journal of the Royal Meteorological Society, 1994, 120, 1559-1588. | 2.7 | 29 |
| 64 | Tides in the Extended UGAMP General Circulation Model. Quarterly Journal of the Royal Meteorological Society, 1994, 120, 1589-1611. | 2.7 | 3 |
| 65 | First results from a 3-dimensional middle atmosphere model. Advances in Space Research, 1993, 13, 363-372. | 2.6 | 8 |
| 66 | Sensitivity of the Extended UGAMP General Circulation Model to the specification of gravity-wave phase speeds. Quarterly Journal of the Royal Meteorological Society, 1993, 119, 457-468. | 2.7 | 9 |
| 67 | Tests of a scheme for regression retrieval and time-space interpolation of stratospheric temperature from satellite measurements. Quarterly Journal of the Royal Meteorological Society, 1990, 116, 1449-1470. | 2.7 | 6 |