M R Hairston

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

3,176 110 32 51 h-index g-index citations papers 4.88 3,476 121 3.2 avg, IF L-index ext. citations ext. papers

| # | Paper | IF | Citations |
|-----|--|---------|-----------|
| 110 | Auroral Heating of Plasma Patches Due to High-Latitude Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029657 | 2.6 | |
| 109 | ASHLEY: A New Empirical Model for the High-Latitude Electron Precipitation and Electric Field. <i>Space Weather</i> , 2021 , 19, e2020SW002671 | 3.7 | 5 |
| 108 | Transpolar Arcs During a Prolonged Radial Interplanetary Magnetic Field Interval. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029197 | 2.6 | 1 |
| 107 | Solar and Geomagnetic Activity Impact on Occurrence and Spatial Size of Cold and Hot Polar Cap Patches. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094526 | 4.9 | 1 |
| 106 | Hemispheric Asymmetries in Poynting Flux Derived From DMSP Spacecraft. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL094781 | 4.9 | 5 |
| 105 | On the Production of Ionospheric Irregularities Via Kelvin-Helmholtz Instability Associated with Cusp Flow Channels. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027734 | 2.6 | 7 |
| 104 | Impacts of Binning Methods on High-Latitude Electrodynamic Forcing: Static Versus Boundary-Oriented Binning Methods. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019J | A0272 | :75 |
| 103 | Dual-Lobe Reconnection and Horse-Collar Auroras. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028567 | 2.6 | 4 |
| 102 | Statistical Study of the Relationship Between Ion Upflow and Field-Aligned Current in the Topside Ionosphere for Both Hemispheres During Geomagnetic Disturbed and Quiet Time. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027538 | 2.6 | 1 |
| 101 | Dawnside Auroral Polarization Streams. Journal of Geophysical Research: Space Physics, 2020, 125, e201 | 9≱1&602 | 7842 |
| 100 | Event Studies of O+ Density Variability Within Quiet-Time Plasma Sheet. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 4168-4187 | 2.6 | 1 |
| 99 | Study of the Equatorial and Low-Latitude Electrodynamic and Ionospheric Disturbances During the 22-23 June 2015 Geomagnetic Storm Using Ground-Based and Spaceborne Techniques. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 2424-2440 | 2.6 | 41 |
| 98 | Topside Ionospheric Electron Temperature Observations of the 21 August 2017 Eclipse by DMSP Spacecraft. <i>Geophysical Research Letters</i> , 2018 , 45, 7242-7247 | 4.9 | 7 |
| 97 | Coincident Observations by the Kharkiv IS Radar and Ionosonde, DMSP and Arase (ERG) Satellites, and FLIP Model Simulations: Implications for the NRLMSISE-00 Hydrogen Density, Plasmasphere, and Ionosphere. <i>Geophysical Research Letters</i> , 2018 , 45, 8062-8071 | 4.9 | 7 |
| 96 | Testing nowcasts of the ionospheric convection from the expanding and contracting polar cap model. <i>Space Weather</i> , 2017 , 15, 623-636 | 3.7 | 11 |
| 95 | Conjugate Aurora Location During a Strong IMF By Storm. <i>Geophysical Monograph Series</i> , 2017 , 285-294 | 1.1 | 3 |
| 94 | DMSP observations of high latitude Poynting flux during magnetic storms. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2017 , 164, 294-307 | 2 | 7 |

| 93 | Storm time coupling between the magnetosheath and the polar ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 7541-7554 | 2.6 | 5 |
|----|--|-----|----|
| 92 | RISR-N observations of the IMF By influence on reverse convection during extreme northward IMF. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3707-3720 | 2.6 | 4 |
| 91 | Equatorial ionospheric plasma drifts and O+ concentration enhancements associated with disturbance dynamo during the 2015 St. Patrick's Day magnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 7961-7973 | 2.6 | 29 |
| 90 | Earth's ion upflow associated with polar cap patches: Global and in situ observations. <i>Geophysical Research Letters</i> , 2016 , 43, 1845-1853 | 4.9 | 28 |
| 89 | Equatorial broad plasma depletions associated with the evening prereversal enhancement and plasma bubbles during the 17 March 2015 storm. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 10,209 | 2.6 | 20 |
| 88 | The auroral ionosphere TEC response to an interplanetary shock. <i>Geophysical Research Letters</i> , 2016 , 43, 1810-1818 | 4.9 | 12 |
| 87 | Responses in the polar and equatorial ionosphere to the March 2015 St. Patrick Day storm. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 11,213-11,234 | 2.6 | 24 |
| 86 | Dayside reconnection under interplanetary magnetic field By-dominated conditions: The formation and movement of bending arcs. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 2967-2978 | 2.6 | 17 |
| 85 | Formation of polar ionospheric tongue of ionization during minor geomagnetic disturbed conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 6860-6873 | 2.6 | 13 |
| 84 | Correlation between Poynting flux and soft electron precipitation in the dayside polar cap boundary regions. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 9102-9109 | 2.6 | 11 |
| 83 | The postsunset vertical plasma drift and its effects on the generation of equatorial plasma bubbles observed by the C/NOFS satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 2263-2275 | 2.6 | 68 |
| 82 | Response of reverse convection to fast IMF transitions. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 4020-4037 | 2.6 | 4 |
| 81 | Relationship between plasma bubbles and density enhancements: Observations and interpretation. Journal of Geophysical Research: Space Physics, 2014 , 119, 1325-1336 | 2.6 | 27 |
| 80 | Solar filament impact on 21 January 2005: Geospace consequences. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5401-5448 | 2.6 | 18 |
| 79 | F region dusk ion temperature spikes at the equatorward edge of the high-latitude convection pattern. <i>Geophysical Research Letters</i> , 2014 , 41, 300-307 | 4.9 | 7 |
| 78 | Radio-tomographic images of postmidnight equatorial plasma depletions. <i>Geophysical Research Letters</i> , 2014 , 41, 13-19 | 4.9 | 7 |
| 77 | Topside equatorial zonal ion velocities measured by C/NOFS during rising solar activity. <i>Annales Geophysicae</i> , 2014 , 32, 69-75 | 2 | 16 |
| 76 | Storm-time meridional flows: a comparison of CINDI observations and model results. <i>Annales Geophysicae</i> , 2014 , 32, 659-668 | 2 | 4 |

| 75 | Sounding of the plasmasphere by Mid-continent MAgnetoseismic Chain (McMAC) magnetometers. Journal of Geophysical Research: Space Physics, 2013, 118, 3077-3086 | 2.6 | 35 | |
|----|--|-----|----|--|
| 74 | Large-scale quasiperiodic plasma bubbles: C/NOFS observations and causal mechanism. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3602-3612 | 2.6 | 36 | |
| 73 | Long-lasting daytime equatorial plasma bubbles observed by the C/NOFS satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2398-2408 | 2.6 | 32 | |
| 72 | Vertical and meridional equatorial ion flows observed by CINDI during the 26 September 2011 storm. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5230-5243 | 2.6 | 10 | |
| 71 | Imaging space weather over Europe. <i>Space Weather</i> , 2013 , 11, 69-78 | 3.7 | 11 | |
| 70 | Imaging magnetospheric boundaries at ionospheric heights. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7294-7305 | 2.6 | 13 | |
| 69 | Field-aligned current reconfiguration and magnetospheric response to an impulse in the interplanetary magnetic field BY component. <i>Geophysical Research Letters</i> , 2013 , 40, 2489-2494 | 4.9 | 9 | |
| 68 | Ionospheric Joule heating, fast flow channels, and magnetic field line topology for IMF By-dominant conditions: Observations and comparisons with predicted reconnection jet speeds. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 15 | |
| 67 | Generation and characteristics of equatorial plasma bubbles detected by the C/NOFS satellite near the sunset terminator. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 43 | |
| 66 | Extreme Poynting flux in the dayside thermosphere: Examples and statistics. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a | 4.9 | 78 | |
| 65 | Reversed two-cell convection in the Northern and Southern hemispheres during northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a | | 13 | |
| 64 | The nonlinear response of the polar cap potential under southward IMF: A statistical view. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a | | 18 | |
| 63 | Temporal variations and spatial extent of the electron density enhancements in the polar magnetosphere during geomagnetic storms. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 10 | |
| 62 | Ion temperature and density relationships measured by CINDI from the C/NOFS spacecraft during solar minimum. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 28 | |
| 61 | Statistical behavior of the topside electron density as determined from DMSP observations: A probabilistic climatology. <i>Journal of Geophysical Research</i> , 2010 , 115, | | 10 | |
| 60 | Mapping the duskside topside ionosphere with CINDI and DMSP. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 1 | |
| 59 | Stratification of east-west plasma flow channels observed in the ionospheric cusp in response to IMF BY polarity changes. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a | 4.9 | 12 | |
| 58 | Multisatellite low-altitude observations of a magnetopause merging burst. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 4 | |

(2006-2010)

| 57 | Vertical thermal O+ flows at 850 km in dynamic auroral boundary coordinates. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 30 |
|----|---|-----|-----|
| 56 | Dynamic temporal evolution of polar cap tongue of ionization during magnetic storm. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 34 |
| 55 | Ionospheric convection signatures of the interchange cycle at small interplanetary magnetic field clock angles. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a | | 4 |
| 54 | Features of morning-time auroras during SC 2010 , 48, 154 | | |
| 53 | Unusually elongated, bright airglow plume in the polar cap F region: Is it a tongue of ionization?. <i>Geophysical Research Letters</i> , 2009 , 36, n/a-n/a | 4.9 | 15 |
| 52 | Behavior of the O+/H+ transition height during the extreme solar minimum of 2008. <i>Geophysical Research Letters</i> , 2009 , 36, | 4.9 | 105 |
| 51 | Broad plasma decreases in the equatorial ionosphere. <i>Geophysical Research Letters</i> , 2009 , 36, | 4.9 | 24 |
| 50 | Three-way validation of the Rankin Inlet PolarDARN radar velocity measurements. <i>Radio Science</i> , 2009 , 44, n/a-n/a | 1.4 | 14 |
| 49 | Electrostatic potential drop across the ionospheric signature of the low-latitude boundary layer. Journal of Geophysical Research, 2009, 114, n/a-n/a | | 13 |
| 48 | Transpolar voltage and polar cap flux during the substorm cycle and steady convection events. Journal of Geophysical Research, 2009, 114, n/a-n/a | | 27 |
| 47 | Features of morning-time auroras during SC. Geomagnetism and Aeronomy, 2008, 48, 154-164 | 0.9 | 6 |
| 46 | lonospheric storm time dynamics as seen by GPS tomography and in situ spacecraft observations. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a | | 21 |
| 45 | High-latitude ionosphere convection and Birkeland current response for the 15 May 2005 magnetic storm recovery phase. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a | | 16 |
| 44 | Statistical description of low-latitude plasma blobs as observed by DMSP F15 and KOMPSAT-1. <i>Advances in Space Research</i> , 2008 , 41, 650-654 | 2.4 | 16 |
| 43 | Observations of ionospheric convection from the Wallops SuperDARN radar at middle latitudes. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a | | 51 |
| 42 | A statistical comparison of the AMIE derived and DMSP-SSIES observed high-latitude ionospheric electric field. <i>Journal of Geophysical Research</i> , 2006 , 111, | | 23 |
| 41 | Ionospheric signatures of internal reconnection for northward interplanetary magnetic field: Observation of Beciprocal cellsDand magnetosheath ion precipitation. <i>Journal of Geophysical Research</i> , 2006 , 111, | | 14 |
| 40 | Characteristics of high-latitude vertical plasma flow from the Defense Meteorological Satellite Program. <i>Journal of Geophysical Research</i> , 2006 , 111, | | 15 |

| 39 | First observations of the temporal/spatial variation of the sub-auroral polarization stream from the SuperDARN Wallops HF radar. <i>Geophysical Research Letters</i> , 2006 , 33, | 4.9 | 60 |
|----|--|-----|-----|
| 38 | Ring current and the magnetosphere-ionosphere coupling during the superstorm of 20 November 2003. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 67 |
| 37 | Saturation of the ionospheric polar cap potential during the October November 2003 superstorms. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 47 |
| 36 | Coupled response of the inner magnetosphere and ionosphere on 17 April 2002. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 76 |
| 35 | Observations of ionospheric plasma flows within theta auroras. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 11 |
| 34 | Global plasmasphere evolution 22🛭 3 April 2001. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 85 |
| 33 | On the distribution of ionospheric electron density observations. <i>Space Weather</i> , 2005 , 3, n/a-n/a | 3.7 | 3 |
| 32 | Modeling Inner Magnetospheric Electric Fields: Latest Self-Consistent Results. <i>Geophysical Monograph Series</i> , 2005 , 263-269 | 1.1 | 13 |
| 31 | Comparison of DMSP cross-track ion drifts and SuperDARN line-of-sight velocities. <i>Annales Geophysicae</i> , 2005 , 23, 2479-2486 | 2 | 43 |
| 30 | Polar cap bifurcation during steady-state northward interplanetary magnetic field with BY ~ BZ. Journal of Geophysical Research, 2004 , 109, | | 21 |
| 29 | Magnetospheric electric fields and plasma sheet injection to low L-shells during the 4B June 1991 magnetic storm: Comparison between the Rice Convection Model and observations. <i>Journal of Geophysical Research</i> , 2004 , 109, | | 58 |
| 28 | Plasmapause undulation of 17 April 2002. <i>Geophysical Research Letters</i> , 2004 , 31, | 4.9 | 32 |
| 27 | Measuring the dayside reconnection rate during an interval of due northward interplanetary magnetic field. <i>Annales Geophysicae</i> , 2004 , 22, 4243-4258 | 2 | 35 |
| 26 | Case study of the 15 July 2000 magnetic storm effects on the ionosphere-driver of the positive ionospheric storm in the winter hemisphere. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 38 |
| 25 | Observed saturation of the ionospheric polar cap potential during the 31 March 2001 storm. <i>Geophysical Research Letters</i> , 2003 , 30, | 4.9 | 72 |
| 24 | Plasma density enhancements associated with equatorial spread F: ROCSAT-1 and DMSP observations. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 59 |
| 23 | Control of plasmaspheric dynamics by both convection and sub-auroral polarization stream. <i>Geophysical Research Letters</i> , 2003 , 30, | 4.9 | 100 |
| 22 | High-latitude plasma outflow as measured by the DMSP spacecraft. <i>Journal of Geophysical Research</i> , 2003 , 108, | | 25 |

(1992-2002)

| 21 | Detailed analysis of a substorm event on 6 and 7 June 1989 1. Growth phase evolution of nightside auroral activities and ionospheric convection toward expansion phase onset. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 36-1-SMP 36-23 | | 20 |
|----|---|-----|-----|
| 20 | Testing global storm-time electric field models using particle spectra on multiple spacecraft. Journal of Geophysical Research, 2002 , 107, SMP 21-1-SMP 21-11 | | 17 |
| 19 | Consequences of a saturated convection electric field on the ring current. <i>Geophysical Research Letters</i> , 2002 , 29, 62-1-62-4 | 4.9 | 26 |
| 18 | An investigation of the influence of data and model inputs on assimilative mapping of ionospheric electrodynamics. <i>Journal of Geophysical Research</i> , 2001 , 106, 417-433 | | 33 |
| 17 | Evolution of ionospheric multicell convection during northward interplanetary magnetic field with Bz /By > 1. <i>Journal of Geophysical Research</i> , 2000 , 105, 27095-27107 | | 34 |
| 16 | Global storm time auroral X-ray morphology and timing and comparison with UV measurements. <i>Journal of Geophysical Research</i> , 2000 , 105, 15757-15777 | | 19 |
| 15 | The ionospheric response to interplanetary magnetic field variations: Evidence for rapid global change and the role of preconditioning in the magnetosphere. <i>Journal of Geophysical Research</i> , 2000 , 105, 22955-22977 | | 14 |
| 14 | Global X-ray observations of magnetospheric convection-driven auroral disturbances. <i>Geophysical Research Letters</i> , 2000 , 27, 3233-3236 | 4.9 | 7 |
| 13 | Analysis of the ionospheric cross polar cap potentialdrop and electrostatic potential distribution patternsduring the January 1997 cme event using DMSP data. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1999 , 61, 195-206 | 2 | 13 |
| 12 | Parameterization of the Defense Meteorological Satellite Program ionospheric electrostatic potentials by the interplanetary magnetic field strength and direction. <i>Journal of Geophysical Research</i> , 1999 , 104, 177-184 | | 43 |
| 11 | Analysis of the ionospheric cross polar cap potential drop using DMSP data during the National Space Weather Program study period. <i>Journal of Geophysical Research</i> , 1998 , 103, 26337-26347 | | 34 |
| 10 | Empirical polar cap potentials. <i>Journal of Geophysical Research</i> , 1997 , 102, 111-125 | | 235 |
| 9 | Response time of the polar ionospheric convection pattern to changes in the north-south direction of the IMF. <i>Geophysical Research Letters</i> , 1995 , 22, 631-634 | 4.9 | 63 |
| 8 | High-latitude ionospheric convection pattern during steady northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 1995 , 100, 14537 | | 28 |
| 7 | Large-scale convection patterns observed by DMSP. <i>Journal of Geophysical Research</i> , 1994 , 99, 3827 | | 303 |
| 6 | The interaction of a magnetic cloud with the Earth: Ionospheric convection in the northern and southern hemispheres for a wide range of quasi-steady interplanetary magnetic field conditions. <i>Journal of Geophysical Research</i> , 1993 , 98, 7633-7655 | | 63 |
| 5 | Ionospheric convection response to slow, strong variations in a northward interplanetary magnetic field: A case study for January 14, 1988. <i>Journal of Geophysical Research</i> , 1993 , 98, 19273-19292 | | 67 |
| 4 | Response of the ionospheric convection pattern to a rotation of the interplanetary magnetic field on January 14, 1988. <i>Journal of Geophysical Research</i> , 1992 , 97, 19449 | | 17 |

| 3 | Three-dimensional ionospheric plasma circulation. <i>Journal of Geophysical Research</i> , 1992 , 97, 13903 | 18 |
|---|---|----|
| 2 | Distribution of convection potential around the polar cap boundary as a function of the interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 1989 , 94, 13447 | 39 |
| 1 | ASHLEY: A new empirical model for the high-latitude electron precipitation and electric field | 1 |