

Mervyn Freeman

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138
papers

4,042
citations

31
h-index

58
g-index

155
ext. papers

4,371
ext. citations

4.4
avg, IF

5.03
L-index

| # | Paper | IF | Citations |
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| 138 | Revisiting L _W flight search patterns of wandering albatrosses, bumblebees and deer. <i>Nature</i> , 2007 , 449, 1044-8 | 50.4 | 626 |
| 137 | A decade of the Super Dual Auroral Radar Network (SuperDARN): scientific achievements, new techniques and future directions. <i>Surveys in Geophysics</i> , 2007 , 28, 33-109 | 7.6 | 454 |
| 136 | A study of an expanding interplanetary magnetic cloud and its interaction with the Earth's magnetosphere: The interplanetary aspect. <i>Journal of Geophysical Research</i> , 1993 , 98, 7621-7632 | | 160 |
| 135 | The excitation of plasma convection in the high-latitude ionosphere. <i>Journal of Geophysical Research</i> , 1990 , 95, 7961 | | 148 |
| 134 | Pressure-driven magnetopause motions and attendant response on the ground. <i>Planetary and Space Science</i> , 1989 , 37, 589-607 | 2 | 113 |
| 133 | The Earth's magnetosphere under continued forcing: Substorm activity during the passage of an interplanetary magnetic cloud. <i>Journal of Geophysical Research</i> , 1993 , 98, 7657-7671 | | 96 |
| 132 | Evidence for a solar wind origin of the power law burst lifetime distribution of the AE indices. <i>Geophysical Research Letters</i> , 2000 , 27, 1087-1090 | 4.9 | 64 |
| 131 | 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 |
| 130 | Saturn's dynamic magnetotail: A comprehensive magnetic field and plasma survey of plasmoids and traveling compression regions and their role in global magnetospheric dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5465-5494 | 2.6 | 62 |
| 129 | Dayside ionospheric convection changes in response to long-period interplanetary Magnetic field oscillations: Determination of the ionospheric phase velocity. <i>Journal of Geophysical Research</i> , 1992 , 97, 19373 | | 56 |
| 128 | On the association between northward turnings of the interplanetary magnetic field and substorm onsets. <i>Geophysical Research Letters</i> , 2007 , 34, | 4.9 | 55 |
| 127 | A new technique for determining Substorm Onsets and Phases from Indices of the Electrojet (SOPHIE). <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 10,592-10,606 | 2.6 | 52 |
| 126 | A minimal substorm model that explains the observed statistical distribution of times between substorms. <i>Geophysical Research Letters</i> , 2004 , 31, n/a-n/a | 4.9 | 51 |
| 125 | On the character and distribution of lower-frequency radio emissions at Saturn and their relationship to substorm-like events. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a | | 49 |
| 124 | Power law distributions of burst duration and interburst interval in the solar wind: turbulence or dissipative self-organized criticality?. <i>Physical Review E</i> , 2000 , 62, 8794-7 | 2.4 | 45 |
| 123 | A comparison of midlatitude Pi 2 pulsations and geostationary orbit particle injections as substorm indicators. <i>Journal of Geophysical Research</i> , 1994 , 99, 4085 | | 45 |
| 122 | The effect of magnetospheric erosion on mid- and high-latitude ionospheric flows. <i>Planetary and Space Science</i> , 1988 , 36, 509-522 | 2 | 45 |

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| 121 | Ion-acoustic resistivity in plasmas with similar ion and electron temperatures. <i>Geophysical Research Letters</i> , 2002 , 29, 4-1 | 4.9 | 44 |
| 120 | On the use of IMAGE FUV for estimating the latitude of the open/closed magnetic field line boundary in the ionosphere. <i>Annales Geophysicae</i> , 2008 , 26, 2759-2769 | 2 | 39 |
| 119 | Towards Synthesis of Solar Wind and Geomagnetic Scaling Exponents: A Fractional Lévy Motion Model. <i>Space Science Reviews</i> , 2005 , 121, 271-284 | 7.5 | 38 |
| 118 | No evidence for externally triggered substorms based on superposed epoch analysis of IMF Bz. <i>Geophysical Research Letters</i> , 2009 , 36, | 4.9 | 37 |
| 117 | Post midnight VLF chorus events, a substorm signature observed at the ground near L = 4. <i>Journal of Geophysical Research</i> , 1996 , 101, 24641-24653 | | 37 |
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| 115 | Incorrect likelihood methods were used to infer scaling laws of marine predator search behaviour. <i>PLoS ONE</i> , 2012 , 7, e45174 | 3.7 | 35 |
| 114 | Characteristics of medium-scale traveling ionospheric disturbances observed near the Antarctic Peninsula by HF radar. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5830-5841 | 2.6 | 35 |
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| 112 | A New Code for Electrostatic Simulation by Numerical Integration of the Vlasov and Ampère Equations Using MacCormack's Method. <i>Journal of Computational Physics</i> , 2001 , 171, 182-200 | 4.1 | 35 |
| 111 | Measuring the dayside reconnection rate during an interval of due northward interplanetary magnetic field. <i>Annales Geophysicae</i> , 2004 , 22, 4243-4258 | 2 | 35 |
| 110 | Anomalous resistivity and the nonlinear evolution of the ion-acoustic instability. <i>Journal of Geophysical Research</i> , 2006 , 111, | | 33 |
| 109 | Geoeffectiveness of three Wind magnetic clouds: A comparative study. <i>Journal of Geophysical Research</i> , 1998 , 103, 17261-17278 | | 33 |
| 108 | A spatiotemporal analysis of U.S. station temperature trends over the last century. <i>Journal of Geophysical Research D: Atmospheres</i> , 2013 , 118, 7427-7434 | 4.4 | 32 |
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| 105 | A statistical study of the open magnetic flux content of the magnetosphere at the time of substorm onset. <i>Geophysical Research Letters</i> , 2009 , 36, | 4.9 | 29 |
| 104 | Nonlinear Dependence of Anomalous Ion-Acoustic Resistivity on Electron Drift Velocity. <i>Astrophysical Journal</i> , 2008 , 686, 686-693 | 4.7 | 29 |

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| 103 | The determination of time-stationary two-dimensional convection patterns with single-station radars. <i>Journal of Geophysical Research</i> , 1991 , 96, 15735-15749 | | 29 |
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| 101 | An examination of inter-hemispheric conjugacy in a subauroral polarization stream. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a | | 27 |
| 100 | A technique for accurately determining the cusp-region polar cap boundary using SuperDARN HF radar measurements. <i>Annales Geophysicae</i> , 2003 , 21, 983-996 | 2 | 27 |
| 99 | A reassessment of SuperDARN meteor echoes from the upper mesosphere and lower thermosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013 , 102, 207-221 | 2 | 26 |
| 98 | Scaling of solar wind θ and the AU, AL and AE indices as seen by WIND. <i>Geophysical Research Letters</i> , 2002 , 29, 35-1-35-4 | 4.9 | 25 |
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| 96 | A statistical comparison of SuperDARN spectral width boundaries and DMSP particle precipitation boundaries in the morning sector ionosphere. <i>Annales Geophysicae</i> , 2005 , 23, 733-743 | 2 | 24 |
| 95 | The response of dayside ionospheric convection to the Y-component of the magnetosheath magnetic field: A case study. <i>Planetary and Space Science</i> , 1990 , 38, 13-41 | 2 | 24 |
| 94 | Remote sensing of the spatial and temporal structure of magnetopause and magnetotail reconnection from the ionosphere. <i>Reviews of Geophysics</i> , 2008 , 46, | 23.1 | 23 |
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| 78 | A linear perturbation analysis of magnetopause motion in the Newton-Busemann limit. <i>Annales Geophysicae</i> , 1995 , 13, 907-918 | 2 | 18 |
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| 75 | A statistical comparison of SuperDARN spectral width boundaries and DMSP particle precipitation boundaries in the afternoon sector ionosphere. <i>Annales Geophysicae</i> , 2005 , 23, 3645-3654 | 2 | 17 |
| 74 | Recent ionospheric observations relating to solar-wind-magnetosphere coupling. <i>Philosophical Transactions of the Royal Society A</i> , 1989 , 328, 93-105 | | 17 |
| 73 | Increases in plasma sheet temperature with solar wind driving during substorm growth phases. <i>Geophysical Research Letters</i> , 2014 , 41, 8713-8721 | 4.9 | 16 |
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| 70 | Investigating turbulent structure of ionospheric plasma velocity using the Halley SuperDARN radar. <i>Nonlinear Processes in Geophysics</i> , 2007 , 14, 799-809 | 2.9 | 16 |
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| 64 | The nightside ionospheric response to IMF by changes. <i>Geophysical Research Letters</i> , 1998 , 25, 2601-2604 | 4.9 | 14 |
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| 62 | Rhythm and Randomness in Human Contact 2010 , | | 13 |
| 61 | Association of substorm chorus events with drift echoes. <i>Journal of Geophysical Research</i> , 2006 , 111, | | 13 |
| 60 | The Development of a Space Climatology: 3. Models of the Evolution of Distributions of Space Weather Variables With Timescale. <i>Space Weather</i> , 2019 , 17, 180-209 | 3.7 | 13 |
| 59 | Energization of the Ring Current by Substorms. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8131-8148 | 2.6 | 13 |
| 58 | A superposed epoch investigation of the relation between magnetospheric solar wind driving and substorm dynamics with geosynchronous particle injection signatures. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a | | 12 |
| 57 | Dynamic subauroral ionospheric electric fields observed by the Falkland Islands radar during the course of a geomagnetic storm. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a | | 12 |
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| 54 | A study of the relationship between interplanetary parameters and large displacements of the nightside polar cap boundary. <i>Journal of Geophysical Research</i> , 1990 , 95, 21133 | | 12 |
| 53 | Evidence for a solar wind origin of the power law burst lifetime distribution of the AE indices. <i>Geophysical Research Letters</i> , 2000 , 27, 1087-1090 | 4.9 | 12 |
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| 49 | The Influence of Sudden Commencements on the Rate of Change of the Surface Horizontal Magnetic Field in the United Kingdom. <i>Space Weather</i> , 2019 , 17, 1605-1617 | 3.7 | 11 |
| 48 | IMF-driven change to the Antarctic tropospheric temperature due to the global atmospheric electric circuit. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2018 , 180, 148-152 | 2 | 11 |
| 47 | Timescales of Birkeland Currents Driven by the IMF. <i>Geophysical Research Letters</i> , 2019 , 46, 7893-7901 | 4.9 | 10 |
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| 42 | VLF, magnetic bay, and Pi2 substorm signatures at auroral and midlatitude ground stations. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 14-1-SMP 14-14 | | 9 |
| 41 | How Well Can We Estimate Pedersen Conductance From the THEMIS White-Light All-Sky Cameras?. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2920-2934 | 2.6 | 8 |
| 40 | What can we infer about the underlying physics from burst distributions observed in an RMHD simulation?. <i>Planetary and Space Science</i> , 2001 , 49, 1233-1237 | 2 | 8 |
| 39 | A very large scale flow burst observed by the SuperDARN radars. <i>Journal of Geophysical Research</i> , 1999 , 104, 22469-22486 | | 8 |
| 38 | A statistical study of the possible effects of solar wind variability on the recurrence rate of substorms. <i>Journal of Geophysical Research</i> , 1995 , 100, 23607 | | 8 |
| 37 | Tailward Propagation of Magnetic Energy Density Variations With Respect to Substorm Onset Times. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4741-4754 | 2.6 | 8 |
| 36 | Large-scale geomagnetic effects of May 4, 1998. <i>Advances in Space Research</i> , 2003 , 31, 1111-1116 | 2.4 | 7 |
| 35 | Reply [to Comment on The Earth's magnetosphere under continued forcing: Substorm activity during the passage of an interplanetary cloud] by C. J. Farrugia, M. P. Freeman, L. F. Burlaga, R. P. Lepping, and K. Takahashi. <i>Journal of Geophysical Research</i> , 1994 , 99, 14941 | | 7 |
| 34 | Measurement of Field-Aligned Currents by the Sabre Coherent Scatter Radar. <i>Geophysical Monograph Series</i> , 1990 , 575-580 | 1.1 | 7 |
| 33 | Spatial Variation in the Responses of the Surface External and Induced Magnetic Field to the Solar Wind. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 6195-6211 | 2.6 | 6 |
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| 31 | Multipoint observations of planar interplanetary magnetic field structures. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1991 , 53, 1039-1047 | | 6 |
| 30 | Probabilistic Forecasts of Storm Sudden Commencements From Interplanetary Shocks Using Machine Learning. <i>Space Weather</i> , 2020 , 18, e2020SW002603 | 3.7 | 6 |
| 29 | Interhemispheric Comparisons of Large Nighttime Magnetic Perturbation Events Relevant to GICs. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028128 | 2.6 | 6 |
| 28 | Substorm-Ring Current Coupling: A Comparison of Isolated and Compound Substorms. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 6776-6791 | 2.6 | 5 |
| 27 | Traveling ionospheric disturbances in the Weddell Sea Anomaly associated with geomagnetic activity. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 6608-6617 | 2.6 | 5 |
| 26 | Effect of magnetopause leakage on the lifetime of magnetospheric cavity modes. <i>Journal of Geophysical Research</i> , 2000 , 105, 5463-5470 | | 5 |
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| 23 | Modeling the Geomagnetic Response to the September 2017 Space Weather Event Over Fennoscandia Using the Space Weather Modeling Framework: Studying the Impacts of Spatial Resolution. <i>Space Weather</i> , 2021 , 19, e2020SW002683 | 3.7 | 5 |
| 22 | Regional, seasonal, and inter-annual variations of Antarctic and sub-Antarctic temperature anomalies related to the Mansurov effect. <i>Environmental Research Communications</i> , 2019 , 1, 111007 | 3.1 | 4 |
| 21 | Fractal reconnection structures on the magnetopause. <i>Geophysical Research Letters</i> , 2005 , 32, | 4.9 | 4 |
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| 19 | EISCAT observations of unusual flows in the morning sector associated with weak substorm activity. <i>Annales Geophysicae</i> , 1994 , 12, 541-553 | 2 | 4 |
| 18 | Comment [on Solar wind control of the magnetopause shape, location, and motion] by D. G. Sibeck, R. E. Lopez, and E. C. Roelof]. <i>Journal of Geophysical Research</i> , 1992 , 97, 10875 | | 4 |
| 17 | Magnetopause Motions in a Newton-Busemann Approach 1998 , 15-26 | | 4 |
| 16 | Identifying the magnetotail lobes with Cluster magnetometer data. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 1436-1446 | 2.6 | 4 |
| 15 | Interplanetary Magnetic Field Control of Polar Ionospheric Equivalent Current System Modes. <i>Space Weather</i> , 2019 , 17, 976 | 3.7 | 3 |
| 14 | On the non-Gaussian nature of ionospheric vorticity. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a | 4.9 | 3 |

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| 13 | Correction to Scaling of solar wind β and the AU, AL and AE indices as seen by WIND by B. Hnat, S. C. Chapman, G. Rowlands, N. W. Watkins, and M. P. Freeman. <i>Geophysical Research Letters</i> , 2003 , 30, | 4.9 | 3 |
| 12 | The role of upstream ULF waves in the generation of quasi-periodic ELF-VLF emissions. <i>Annales Geophysicae</i> , 1995 , 13, 1127-1133 | 2 | 3 |
| 11 | The Impact of Sudden Commencements on Ground Magnetic Field Variability: Immediate and Delayed Consequences. <i>Space Weather</i> , 2021 , 19, e2021SW002764 | 3.7 | 3 |
| 10 | Magnetic local time variation and scaling of poleward auroral boundary dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 10,006 | 2.6 | 2 |
| 9 | Anti-Parallel Reconnection at the Dayside Magnetopause: Ionospheric Signatures and Implications for the Low Latitude Boundary Layer. <i>Geophysical Monograph Series</i> , 2003 , 311-318 | 1.1 | 2 |
| 8 | Power to the magnetosphere: May 4, 1998. <i>Advances in Space Research</i> , 2003 , 31, 1117-1122 | 2.4 | 2 |
| 7 | Geomagnetically induced currents during the 0708 September 2017 disturbed period: a global perspective. <i>Journal of Space Weather and Space Climate</i> , 2021 , 11, 33 | 2.5 | 2 |
| 6 | Interplanetary Shock-Induced Magnetopause Motion: Comparison Between Theory and Global Magnetohydrodynamic Simulations. <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL092554 | 4.9 | 2 |
| 5 | Comment on Location of the reconnection line for northward interplanetary magnetic field by K. J. Trattner, S. A. Fuselier, and S. M. Petrinec. <i>Journal of Geophysical Research</i> , 2005 , 110, | | 1 |
| 4 | Reply to comment by S. M. Petrinec and S. A. Fuselier on An ionospheric convection signature of antiparallel reconnection <i>Journal of Geophysical Research</i> , 2003 , 108, | | 1 |
| 3 | A Statistical Model of Vorticity in the Polar Ionosphere and Implications for Extreme Values. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029307 | 2.6 | 0 |
| 2 | The Substorm Chorus Event: An ELF/VLF Wave Signature of Substorm Expansion Phase Onset. <i>Astrophysics and Space Science Library</i> , 1998 , 589-591 | 0.3 | |
| 1 | Data-Driven Basis Functions for SuperDARN Ionospheric Plasma Flow Characterization and Prediction. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029272 | 2.6 | |