

David M Willis

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.

65
papers

1,618
citations

24
h-index

39
g-index

66
ext. papers

1,702
ext. citations

5.5
avg, IF

4.04
L-index

#	Paper	IF	Citations
65	Provenance of the cross sign of 806 in the Anglo-Saxon Chronicle: a possible lunar halo over continental Europe?. <i>History of Geo- and Space Sciences</i> , 2020 , 11, 81-92	1	2
64	Temporal and Spatial Evolutions of a Large Sunspot Group and Great Auroral Storms Around the Carrington Event in 1859. <i>Space Weather</i> , 2019 , 17, 1553-1569	3.7	43
63	Do the Chinese Astronomical Records Dated AD 776 January 12/13 Describe an Auroral Display or a Lunar Halo? A Critical Re-examination. <i>Solar Physics</i> , 2019 , 294, 1	2.6	16
62	The Celestial Sign in the Anglo-Saxon Chronicle in the 770s: Insights on Contemporary Solar Activity. <i>Solar Physics</i> , 2019 , 294, 1	2.6	7
61	Unaided-eye Sunspot Observations in 1769 November: A Comparison of Graphical Records in the East and the West. <i>Solar Physics</i> , 2019 , 294, 1	2.6	5
60	A Transit of Venus Possibly Misinterpreted as an Unaided-Eye Sunspot Observation in China on 9 December 1874. <i>Solar Physics</i> , 2019 , 294, 1	2.6	2
59	The Great Space Weather Event during 1872 February Recorded in East Asia. <i>Astrophysical Journal</i> , 2018 , 862, 15	4.7	33
58	Sunspot Observations on 10 and 11 February 1917: A Case Study in Collating Known and Previously Undocumented Records. <i>Space Weather</i> , 2018 , 16, 1740-1752	3.7	6
57	The Greenwich Photo-heliographic Results (1874–1885): Observing Telescopes, Photographic Processes, and Solar Images. <i>Solar Physics</i> , 2016 , 291, 2553-2586	2.6	17
56	Tests of Sunspot Number Sequences: 1. Using Ionosonde Data. <i>Solar Physics</i> , 2016 , 291, 2785-2809	2.6	16
55	Re-examination of the Daily Number of Sunspot Groups for the Royal Observatory, Greenwich (1874–1885). <i>Solar Physics</i> , 2016 , 291, 2519-2552	2.6	20
54	Going with the floe. <i>Astronomy and Geophysics</i> , 2016 , 57, 2.37-2.42	0.2	2
53	Evidence for Recurrent Auroral Activity in the Twelfth and Seventeenth Centuries. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2015 , 61-90	0.3	3
52	The Greenwich Photo-heliographic Results (1874–1976): Procedures for Checking and Correcting the Sunspot Digital Datasets. <i>Solar Physics</i> , 2013 , 288, 141-156	2.6	33
51	The Greenwich Photo-heliographic Results (1874–1976): Initial Corrections to the Printed Publications. <i>Solar Physics</i> , 2013 , 288, 157-170	2.6	24
50	The Greenwich Photo-heliographic Results (1874–1976): Summary of the Observations, Applications, Datasets, Definitions and Errors. <i>Solar Physics</i> , 2013 , 288, 117-139	2.6	58
49	Increasing Lifetime of Recurrent Sunspot Groups Within the Greenwich Photoheliographic Results. <i>Solar Physics</i> , 2010 , 262, 299-313	2.6	28

48	The presence of large sunspots near the central solar meridian at the times of major geomagnetic storms. <i>Annales Geophysicae</i> , 2009 , 27, 185-197	2	6
47	Early observation of the aurora australis: AD 1640. <i>Astronomy and Geophysics</i> , 2009 , 50, 5.20-5.24	0.2	3
46	Vapours like fire light are Korean aurorae. <i>Astronomy and Geophysics</i> , 2008 , 49, 3.34-3.38	0.2	6
45	Sporadic aurorae observed in East Asia. <i>Annales Geophysicae</i> , 2007 , 25, 417-436	2	27
44	The presence of large sunspots near the central solar meridian at the times of modern Japanese auroral observations. <i>Annales Geophysicae</i> , 2006 , 24, 2743-2758	2	6
43	Identification of possible intense historical geomagnetic storms using combined sunspot and auroral observations from East Asia. <i>Annales Geophysicae</i> , 2005 , 23, 945-971	2	22
42	The earliest datable observation of the aurora borealis. <i>Astronomy and Geophysics</i> , 2004 , 45, 6.15-6.17	0.2	25
41	Scientific Interpretation of Historical Auroral Records. <i>Highlights of Astronomy</i> , 2002 , 12, 346-349		4
40	Solar and auroral evidence for an intense recurrent geomagnetic storm during December in AD 1128. <i>Annales Geophysicae</i> , 2001 , 19, 289-302	2	36
39	Simultaneous auroral observations described in the historical records of China, Japan and Korea from ancient times to AD 1700. <i>Annales Geophysicae</i> , 2000 , 18, 1-10	2	21
38	Possible configurations of the magnetic field in the outer magnetosphere during geomagnetic polarity reversals. <i>Annales Geophysicae</i> , 2000 , 18, 11-27	2	6
37	Uncertainties in field-line tracing in the magnetosphere. Part I: the axisymmetric part of the internal geomagnetic field. <i>Annales Geophysicae</i> , 1997 , 15, 165-180	2	2
36	Uncertainties in field-line tracing in the magnetosphere. Part II: the complete internal geomagnetic field. <i>Annales Geophysicae</i> , 1997 , 15, 181-196	2	1
35	Statistics of the largest geomagnetic storms per solar cycle (1844-1993). <i>Annales Geophysicae</i> , 1997 , 15, 719-728	2	16
34	Synoptic data for solar-terrestrial physics: the U.K. contribution to long-term monitoring. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1994 , 56, 871-886		5
33	Variability of the interplanetary medium at 1 a.u. over 24 years: 1963-1986. <i>Planetary and Space Science</i> , 1991 , 39, 411-423	2	60
32	Studies of the cusp and auroral zone with incoherent scatter radar: the scientific and technical case for a polar-cap radar. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1990 , 52, 645-663		13
31	Short-term variability of solar wind number density, speed and dynamic pressure as a function of the interplanetary magnetic field components: A survey over two solar cycles. <i>Geophysical Research Letters</i> , 1990 , 17, 1825-1828	4.9	8

30	Midday auroral breakup events and related energy and momentum transfer from the magnetosheath. <i>Journal of Geophysical Research</i> , 1990 , 95, 1039		155
29	Response time of the high-latitude dayside ionosphere to sudden changes in the north-south component of the IMF. <i>Planetary and Space Science</i> , 1988 , 36, 1415-1428	2	86
28	The dependence of high-latitude dayside ionospheric flows on the North-South component of the IMF: A high time resolution correlation analysis using EISCAT Polar and AMPTE UKS and IRM data. <i>Planetary and Space Science</i> , 1988 , 36, 471-498	2	128
27	Equations for the field lines of a sectorial magnetic multipole. <i>Geophysical Journal International</i> , 1988 , 95, 625-632	2.6	4
26	Ion flows and heating at a contracting polar-cap boundary. <i>Planetary and Space Science</i> , 1988 , 36, 1229-1253		32
25	Flow in the high latitude ionosphere: measurements at 15s resolution made using the EISCAT Polar experiment. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1988 , 50, 423-446		23
24	Scattered power from non-thermal, F-region plasma observed by EISCAT—evidence for coherent echoes?. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1988 , 50, 467-485		22
23	Seasonal and Secular Variations of the Oriental Sunspot Sightings 1988 , 187-202		4
22	Non-Maxwellian ion velocity distributions observed using EISCAT. <i>Geophysical Research Letters</i> , 1987 , 14, 111-114	4.9	68
21	Equation for the field lines of an axisymmetric magnetic multipole. <i>Geophysical Journal International</i> , 1987 , 89, 1011-1022	2.6	10
20	A survey of simultaneous observations of the high-latitude ionosphere and interplanetary magnetic field with EISCAT and AMPTE-UKS. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1986 , 48, 987-1008		44
19	Eastward propagation of a plasma convection enhancement following a southward turning of the interplanetary magnetic field. <i>Geophysical Research Letters</i> , 1986 , 13, 72-75	4.9	72
18	EISCAT observations of bursts of rapid flow in the high latitude dayside ionosphere. <i>Geophysical Research Letters</i> , 1986 , 13, 909-912	4.9	71
17	Ionospheric response to changes in the interplanetary magnetic field observed by EISCAT and AMPTE-UKS. <i>Nature</i> , 1985 , 318, 451-452	50.4	37
16	Initial EISCAT observations of plasma convection at invariant latitudes 70°–77°. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1984 , 46, 635-641		47
15	A direct analytic method of calculating the quadrupole parameters of a planetary magnetic field. <i>Geophysical Journal International</i> , 1982 , 68, 751-764	2.6	1
14	Quadrupole and octupole parameters of Jupiter's main magnetic field. <i>Geophysical Journal International</i> , 1982 , 68, 765-776	2.6	2
13	Seasonal variation of oriental sunspot sightings. <i>Nature</i> , 1980 , 287, 617-619	50.4	40

12	Ultraviolet spectra of asteroids. <i>Nature</i> , 1980 , 287, 701-703	50.4	4
11	Statistics of the largest sunspot and facular areas per solar cycle. <i>Solar Physics</i> , 1979 , 64, 237-246	2.6	6
10	The magnetopause: microstructure and interaction with magnetospheric plasma. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1978 , 40, 301-322		22
9	Atmospheric water vapour of extraterrestrial origin: a discussion of its possible role in Sun-weather relationships. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1978 , 40, 513-528		2
8	Large-amplitude standing planetary waves induced in the troposphere by the Sun. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1977 , 39, 1357-1367		22
7	The energetics of Sun-weather relationships: magnetospheric processes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1976 , 38, 685-698		24
6	The Microstructure of the Magnetopause. <i>Geophysical Journal International</i> , 1975 , 41, 355-389	2.6	29
5	Solar proton entry to the magnetosphere on 18 November 1968 and 25 February 1969□ Interpretation of satellite data using trajectory computations in a model magnetosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1974 , 36, 995-1017		4
4	Solar proton entry to the magnetosphere on 18 November 1968 and 25 February 1969□. Comparison of trajectory computations in two model magnetospheres. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1974 , 36, 1019-1035		4
3	Simplified representations of the magnetopause boundary surface for a quantitative model of the magnetosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1974 , 36, 1037-1044		4
2	Phase variations at millimetric wavelengths on an Earth-space path through model atmospheres. <i>Electronics Letters</i> , 1974 , 10, 281	1.1	1
1	Structure of the magnetopause. <i>Reviews of Geophysics</i> , 1971 , 9, 953	23.1	67