

Michael A Hapgood

List of Publications by Citations

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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.

67
papers

2,096
citations

23
h-index

45
g-index

91
ext. papers

2,402
ext. citations

4.5
avg, IF

5
L-index

#	Paper	IF	Citations
67	Understanding space weather to shield society: A global road map for 2015–2025 commissioned by COSPAR and ILWS. <i>Advances in Space Research</i> , 2015 , 55, 2745-2807	2.4	174
66	Identification of a thunderstorm as a source of short period gravity waves in the upper atmospheric nightglow emissions. <i>Planetary and Space Science</i> , 1988 , 36, 975-985	2	158
65	First imaging of corotating interaction regions using the STEREO spacecraft. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	149
64	Space physics coordinate transformations: A user guide. <i>Planetary and Space Science</i> , 1992 , 40, 711-717	2	123
63	The Economic Impact of Space Weather: Where Do We Stand?. <i>Risk Analysis</i> , 2017 , 37, 206-218	3.9	119
62	Observations of gravity wave propagation in the OI (557.7 nm), Na (589.2 nm) and the near infrared OH nightglow emissions. <i>Planetary and Space Science</i> , 1987 , 35, 413-427	2	100
61	Towards a scientific understanding of the risk from extreme space weather. <i>Advances in Space Research</i> , 2011 , 47, 2059-2072	2.4	83
60	On the origin of ripple-type wave structure in the OH nightglow emission. <i>Planetary and Space Science</i> , 1990 , 38, 1421-1430	2	82
59	Analyses on the geometrical structure of magnetic field in the current sheet based on cluster measurements. <i>Journal of Geophysical Research</i> , 2003 , 108,		78
58	The Double Star mission. <i>Annales Geophysicae</i> , 2005 , 23, 2707-2712	2	74
57	A solar storm observed from the Sun to Venus using the STEREO, Venus Express, and MESSENGER spacecraft. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		61
56	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
55	The generation and propagation of atmospheric gravity waves observed during the Worldwide Atmospheric Gravity-wave Study (WAGS). <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1988 , 50, 323-338		56
54	Predicting space climate change. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	53
53	The role of suprathermal particle measurements in CrossScale studies of collisionless plasma processes. <i>Planetary and Space Science</i> , 2011 , 59, 618-629	2	43
52	On the cause of a magnetospheric flux transfer event. <i>Journal of Geophysical Research</i> , 1998 , 103, 26453-26478	4.2	42
51	Exploring the magnetospheric boundary layer. <i>Planetary and Space Science</i> , 1992 , 40, 1431-1459	2	42

50	Astrophysics: Prepare for the coming space weather storm. <i>Nature</i> , 2012 , 484, 311-3	50.4	34
49	How the magnetopause transition parameter works. <i>Geophysical Research Letters</i> , 1997 , 24, 373-376	4.9	31
48	The Great Storm of May 1921: An Exemplar of a Dangerous Space Weather Event. <i>Space Weather</i> , 2019 , 17, 950-975	3.7	30
47	Re-ordered electron data in the low-latitude boundary layer. <i>Geophysical Research Letters</i> , 1990 , 17, 2043-2046	4.9	27
46	The interaction of a flowing plasma with a dipole magnetic field: measurements and modelling of a diamagnetic cavity relevant to spacecraft protection. <i>Plasma Physics and Controlled Fusion</i> , 2008 , 50, 124025	2	24
45	Coordinated Cluster and ground-based instrument observations of transient changes in the magnetopause boundary layer during an interval of predominantly northward IMF: relation to reconnection pulses and FTE signatures. <i>Annales Geophysicae</i> , 2001 , 19, 1613-1640	2	24
44	Toolkit for Updating Interplanetary Proton Cumulated Fluence Models. <i>Journal of Spacecraft and Rockets</i> , 2005 , 42, 1077-1090	1.5	22
43	An equinoctial asymmetry in the high-latitude thermosphere and ionosphere. <i>Journal of Geophysical Research</i> , 1996 , 101, 15713-15722		21
42	A Risk Assessment Framework for the Socioeconomic Impacts of Electricity Transmission Infrastructure Failure Due to Space Weather: An Application to the United Kingdom. <i>Risk Analysis</i> , 2019 , 39, 1022-1043	3.9	21
41	Quantifying the Economic Value of Space Weather Forecasting for Power Grids: An Exploratory Study. <i>Space Weather</i> , 2018 , 16, 2052-2067	3.7	21
40	IR observation of a persistent meteor train. <i>Nature</i> , 1980 , 286, 582-583	50.4	20
39	Coordinated Cluster, ground-based instrumentation and low-altitude satellite observations of transient poleward-moving events in the ionosphere and in the tail lobe. <i>Annales Geophysicae</i> , 2001 , 19, 1589-1612	2	18
38	Dynamical processes in space: Cluster results. <i>Annales Geophysicae</i> , 2013 , 31, 1045-1059	2	17
37	Solar And Cosmic Ray Physics And The Space Environment: Studies For And With LISA. <i>AIP Conference Proceedings</i> , 2006 ,	0	17
36	Satellite navigation: Amazing technology but insidious risk: Why everyone needs to understand space weather. <i>Space Weather</i> , 2017 , 15, 545-548	3.7	16
35	HELIO: The Heliophysics Integrated Observatory. <i>Advances in Space Research</i> , 2011 , 47, 2235-2239	2.4	16
34	Two-station television observations of Perseid meteors. <i>Monthly Notices of the Royal Astronomical Society</i> , 1982 , 201, 569-577	4.3	15
33	The Rough Guide to the Moon and Mars. <i>Astronomy and Geophysics</i> , 2007 , 48, 6.11-6.17	0.2	14

32	Rapid changes in LLBL thickness. <i>Geophysical Research Letters</i> , 1995 , 22, 77-80	4.9	14
31	On the voltage and distance across the low latitude boundary layer. <i>Geophysical Research Letters</i> , 1993 , 20, 145-148	4.9	14
30	The transition from the magnetosheath to the magnetosphere. <i>Geophysical Research Letters</i> , 1990 , 17, 2039-2042	4.9	13
29	A comparison of Cluster magnetic data with the Tsyganenko 2001 model. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		12
28	Development of Space Weather Reasonable Worst-Case Scenarios for the UK National Risk Assessment. <i>Space Weather</i> , 2021 , 19, e2020SW002593	3.7	12
27	Modelling long-term trends in lunar exposure to the Earth's plasmasheet. <i>Annales Geophysicae</i> , 2007 , 25, 2037-2044	2	11
26	Assessment and recommendations for a consolidated European approach to space weather as part of a global space weather effort. <i>Journal of Space Weather and Space Climate</i> , 2019 , 9, A37	2.5	10
25	Alfvén: magnetosphere-ionosphere connection explorers. <i>Experimental Astronomy</i> , 2012 , 33, 445-489	1.3	8
24	Three-dimensional simulation of dust charging and dusty plasma using SPIS. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 6723-6735	2.6	8
23	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
22	The effect of atmospheric screening on the visible border of noctilucent clouds. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1984 , 46, 363-372		8
21	The ESPAS e-infrastructure: Access to data from near-Earth space. <i>Advances in Space Research</i> , 2016 , 58, 1177-1200	2.4	6
20	Fragmentation of a meteor in near-Earth space. <i>Nature</i> , 1981 , 290, 384-386	50.4	6
19	Renewed Support Dawns in Europe: An Action to Develop Space Weather Products and Services. <i>Space Weather</i> , 2009 , 7, n/a-n/a	3.7	5
18	On the potential of interplanetary scintillation for predicting geomagnetic activity. <i>Geophysical Research Letters</i> , 1994 , 21, 637-640	4.9	5
17	Ionospheric correction of space radar data. <i>Acta Geophysica</i> , 2010 , 58, 453-467	2.2	4
16	THE JOINT SCIENCE OPERATIONS CENTRE. <i>Space Science Reviews</i> , 1997 , 79, 487-1-2	7.5	4
15	Space Weather: What are Policymakers Seeking? 2018 , 657-682		3

14	Plan management system for space science mission systems. <i>Advances in Space Research</i> , 2009 , 44, 1-22	2.4	3
13	Space physics coordinate transformations: the role of precession. <i>Annales Geophysicae</i> , 1995 , 13, 713-716		3
12	The Joint Science Operations Centre 1997 , 487-525		3
11	The Impact of Space Weather on Human Missions to Mars: The Need for Good Engineering and Good Forecasts. <i>Space and Society</i> , 2019 , 69-91	0.2	2
10	Technological Impacts of Space Weather 2019 , 251-264		2
9	A narrow auroral arc observed with EISCAT. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1987 , 49, 49-55		2
8	The low-latitude boundary layer: Application of ISTP advances to past data. <i>Geophysical Monograph Series</i> , 1999 , 103-111	1.1	2
7	Science operations planning expertise: A neglected component of mission design. <i>Advances in Space Research</i> , 2011 , 48, 971-978	2.4	1
6	Generic procedure for designing and implementing plan management systems for space science missions operations. <i>Advances in Space Research</i> , 2011 , 48, 955-970	2.4	1
5	Space exploration and the RAS. <i>Astronomy and Geophysics</i> , 2007 , 48, 6.9-6.10	0.2	1
4	The Science of the Cluster Mission. <i>Thirty Years of Astronomical Discovery With UKIRT</i> , 2015 , 159-179	0.3	1
3	Cluster After 20 Years of Operations: Science Highlights and Technical Challenges. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029474	2.6	0
2	Ionospheric Science: An Example of the Importance of Diversity in Approaches to Scientific Research. <i>Atmosphere</i> , 2022 , 13, 394	2.7	0
1	Impact factors - signal or noise?. <i>Astronomy and Geophysics</i> , 2005 , 46, 2.15-2.15	0.2	