Michael A Hapgood

List of Publications by Year
in descending order

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86 papers	2,756 citations	185998 28 h-index	182168 51 g-index
91 all docs	91 docs citations	91 times ranked	2517 citing authors

#	Article	IF	Citations
1	Understanding space weather to shield society: A global road map for 2015â€“2025 commissioned by COSPAR and ILWS. Advances in Space Research, 2015, 55, 2745-2807.	1.2	256
2	The Economic Impact of Space Weather: Where Do We Stand?. Risk Analysis, 2017, 37, 206-218.	1.5	187
3	Identification of a thunderstorm as a source of short period gravity waves in the upper atmospheric nightglow emissions. Planetary and Space Science, 1988, 36, 975-985.	0.9	176
4	First imaging of corotating interaction regions using the STEREO spacecraft. Geophysical Research Letters, 2008, 35, .	1.5	165
5	Space physics coordinate transformations: A user guide. Planetary and Space Science, 1992, 40, 711-717.	0.9	155
6	Observations of gravity wave propagation in the OI (557.7 nm), Na (589.2 nm) and the near infrared OH nightglow emissions. Planetary and Space Science, 1987, 35, 413-427.	0.9	111
7	The Double Star mission. Annales Geophysicae, 2005, 23, 2707-2712.	0.6	108
8	Towards a scientific understanding of the risk from extreme space weather. Advances in Space Research, 2011, 47, 2059-2072.	1.2	104
9	Analyses on the geometrical structure of magnetic field in the current sheet based on cluster measurements. Journal of Geophysical Research, 2003, 108, .	3.3	99
10	On the origin of ripple-type wave structure in the OH nightglow emission. Planetary and Space Science, 1990, 38, 1421-1430.	0.9	94
11	Variability of the interplanetary medium at 1 a.u. over 24 years: 1963â€“1986. Planetary and Space Science, 1991, 39, 411-423.	0.9	68
12	The generation and propagation of atmospheric gravity waves observed during the Worldwide Atmospheric Gravity-wave Study (WAGS). Journal of Atmospheric and Solar-Terrestrial Physics, 1988, 50, 323-338.	0.9	67
13	A solar storm observed from the Sun to Venus using the STEREO, Venus Express, and MESSENGER spacecraft. Journal of Geophysical Research, 2009, 114, .	3.3	65
14	Predicting space climate change. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	65
15	The role of suprathermal particle measurements in CrossScale studies of collisionless plasma processes. Planetary and Space Science, 2011, 59, 618-629.	0.9	53
16	On the cause of a magnetospheric flux transfer event. Journal of Geophysical Research, 1998, 103, 26453-26478.	3.3	52
17	The Great Storm of May 1921: An Exemplar of a Dangerous Space Weather Event. Space Weather, 2019, 17, 950-975.	1.3	52
18	Exploring the magnetospheric boundary layer. Planetary and Space Science, 1992, 40, 1431-1459.	0.9	46

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19	Prepare for the coming space weather storm. Nature, 2012, 484, 311-313.	13.7	43
20	A Risk Assessment Framework for the Socioeconomic Impacts of Electricity Transmission Infrastructure Failure Due to Space Weather: An Application to the United Kingdom. Risk Analysis, 2019, 39, 1022-1043.	1.5	43
21	SpaceXâ€”Sailing Close to the Space Weather?. Space Weather, 2022, 20, .	1.3	43
22	Development of Space Weather Reasonable Worstâ€Case Scenarios for the UK National Risk Assessment. Space Weather, 2021, 19, e2020SW002593.	1.3	41
23	Quantifying the Economic Value of Space Weather Forecasting for Power Grids: An Exploratory Study. Space Weather, 2018, 16, 2052-2067.	1.3	40
24	How the magnetopause transition parameter works. Geophysical Research Letters, 1997, 24, 373-376.	1.5	37
25	Reâ€ordered electron data in the lowâ€latitude boundary layer. Geophysical Research Letters, 1990, 17, 2043-2046.	1.5	36
26	Coordinated Cluster, ground-based instrumentation and low-altitude satellite observations of transient poleward-moving events in the ionosphere and in the tail lobe. Annales Geophysicae, 2001, 19, 1589-1612.	0.6	32
27	The interaction of a flowing plasma with a dipole magnetic field: measurements and modelling of a diamagnetic cavity relevant to spacecraft protection. Plasma Physics and Controlled Fusion, 2008, 50, 124025.	0.9	31
28	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. Annales Geophysicae, 2001, 19, 1613-1640.	0.6	30
29	Toolkit for Updating Interplanetary Proton Cumulated Fluence Models. Journal of Spacecraft and Rockets, 2005, 42, 1077-1090.	1.3	27
30	An equinoctial asymmetry in the high-latitude thermosphere and ionosphere. Journal of Geophysical Research, 1996, 101, 15713-15722.	3.3	26
31	A comparison of Cluster magnetic data with the Tsyganenko 2001 model. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	24
32	IR observation of a persistent meteor train. Nature, 1980, 286, 582-583.	13.7	22
33	HELIO: The Heliophysics Integrated Observatory. Advances in Space Research, 2011, 47, 2235-2239.	1.2	20
34	Solar And Cosmic Ray Physics And The Space Environment: Studies For And With LISA. AIP Conference Proceedings, 2006, , .	0.3	19
35	Two-station television observations of Perseid meteors. Monthly Notices of the Royal Astronomical Society, 1982, 201, 569-577.	1.6	18
36	Dynamical processes in space: Cluster results. Annales Geophysicae, 2013, 31, 1045-1059.	0.6	18

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37	Satellite navigationâ€"Amazing technology but insidious risk: Why everyone needs to understand space weather. Space Weather, 2017, 15, 545-548.	1.3	18
38	The Rough Guide to the Moon and Mars. Astronomy and Geophysics, 2007, 48, 6.11-6.17.	0.1	17
39	Assessment and recommendations for a consolidated European approach to space weather â€“ as part of a global space weather effort. Journal of Space Weather and Space Climate, 2019, 9, A37.	1.1	17
40	On the voltage and distance across the low latitude boundary layer. Geophysical Research Letters, 1993, 20, 145-148.	1.5	16
41	Rapid changes in LLBL thickness. Geophysical Research Letters, 1995, 22, 77-80.	1.5	16
42	The transition from the magnetosheath to the magnetosphere. Geophysical Research Letters, 1990, 17, 2039-2042.	1.5	15
43	Data Citation and Availability: Striking a Balance Between the Ideal and the Practical. Space Weather, 2016, 14, 919-920.	1.3	14
44	Threeâ€dimensional simulation of dust charging and dusty plasma using SPIS. Journal of Geophysical Research: Space Physics, 2013, 118, 6723-6735.	0.8	13
45	Modelling long-term trends in lunar exposure to the Earth's plasmasheet. Annales Geophysicae, 2007, 25, 2037-2044.	0.6	13
46	The ESPAS e-infrastructure: Access to data from near-Earth space. Advances in Space Research, 2016, 58, 1177-1200.	1.2	12
47	The effect of atmospheric screening on the visible border of noctilucent clouds. Journal of Atmospheric and Solar-Terrestrial Physics, 1984, 46, 363-372.	0.9	11
48	Fragmentation of a meteor in near-Earth space. Nature, 1981, 290, 384-386.	13.7	9
49	Shortâ€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. Geophysical Research Letters, 1990, 17, 1825-1828.	1.5	9
50	AlfvÃ©n: magnetosphereâ€"ionosphere connection explorers. Experimental Astronomy, 2012, 33, 445-489.	1.6	9
51	Communicating Uncertainty and Reliability in Space Weather Data, Models, and Applications. Space Weather, 2018, 16, 1453-1454.	1.3	7
52	The Joint Science Operations Centre. , 1997, , 487-525.		7
53	On the potential of interplanetary scintillation for predicting geomagnetic activity. Geophysical Research Letters, 1994, 21, 637-640.	1.5	6
54	Renewed Support Dawns in Europe: An Action to Develop Space Weather Products and Services. Space Weather, 2009, 7, n/a-n/a.	1.3	6

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55	Ionospheric correction of space radar data. Acta Geophysica, 2010, 58, 453-467.	1.0	6
56	Cluster After 20 Years of Operations: Science Highlights and Technical Challenges. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029474.	0.8	6
57	Space physics coordinate transformations: the role of precession. Annales Geophysicae, 1995, 13, 713-716.	0.6	5
58	THE JOINT SCIENCE OPERATIONS CENTRE. Space Science Reviews, 1997, 79, 487-1-2.	3.7	4
59	Plan management system for space science mission systems. Advances in Space Research, 2009, 44, 1-22.	1.2	4
60	Technological Impacts of Space Weather. , 2019, , 251-264.		4
61	Space Weather. , 0, , .		4
62	Ionospheric Science: An Example of the Importance of Diversity in Approaches to Scientific Research. Atmosphere, 2022, 13, 394.	1.0	4
63	Space Weather: What are Policymakers Seeking?. , 2018, , 657-682.		3
64	The Impact of Space Weather on Human Missions to Mars: The Need for Good Engineering and Good Forecasts. Space and Society, 2019, , 69-91.	1.6	3
65	The low-latitude boundary layer: Application of ISTP advances to past data. Geophysical Monograph Series, 1999, , 103-111.	0.1	3
66	A narrow auroral arc observed with EISCAT. Journal of Atmospheric and Solar-Terrestrial Physics, 1987, 49, 49-55.	0.9	2
67	Machineâ€Learning Research in the Space Weather Journal: Prospects, Scope, and Limitations. Space Weather, 2021, 19, .	1.3	2
68	Planetary magnetospheric physics I. Planetary and Space Science, 1992, 40, 1299.	0.9	1
69	Space exploration and the RAS. Astronomy and Geophysics, 2007, 48, 6.9-6.10.	0.1	1
70	Science operations planning expertise: A neglected component of mission design. Advances in Space Research, 2011, 48, 971-978.	1.2	1
71	Generic procedure for designing and implementing plan management systems for space science missions operations. Advances in Space Research, 2011, 48, 955-970.	1.2	1
72	The Science of the Cluster Mission. Thirty Years of Astronomical Discovery With UKIRT, 2015, , 159-179.	0.3	1

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73	<i>Editorial</i>The science of space weather. Annales Geophysicae, 2002, 20, 875-877.	0.6	1
74	Legal protection of databases -- necessary, or just more bureaucracy?. Astronomy and Geophysics, 1998, 39, 2.8-2.8.	0.1	0
75	Impact factors - signal or noise?. Astronomy and Geophysics, 2005, 46, 2.15-2.15.	0.1	0
76	Promoting planetary science. Astronomy and Geophysics, 2005, 46, 5.30-5.31.	0.1	0
77	A welcome opportunity to foster interdisciplinary research. Astronomy and Geophysics, 2006, 47, 3.9-3.9.	0.1	0
78	Shields for the starship Enterprise. Astronomy and Geophysics, 2007, 48, 6.18-6.23.	0.1	0
79	Recognizing Reviewers and Contributors. Space Weather, 2016, 14, 272-274.	1.3	0
80	Maintaining a Strong Signal and Strong Impact. Space Weather, 2017, 15, 1560-1561.	1.3	0
81	Thank You to Space Weather Peer Reviewers. Space Weather, 2017, 15, 542-544.	1.3	0
82	Thank You to Space Weather Peer Reviewers. Space Weather, 2018, 16, 424-427.	1.3	0
83	Thank You to Our 2018 Peer Reviewers. Space Weather, 2019, 17, 372-374.	1.3	0
84	Thank You to Our 2019 Reviewers. Space Weather, 2020, 18, e2020SW002481.	1.3	0
85	Thank You to Our 2020 Reviewers. Space Weather, 2021, 19, e2021SW002756.	1.3	0
86	Thank You to Our 2021 Peer Reviewers. Space Weather, 2022, 20, .	1.3	0