

Michael Lockwood

List of Publications by Year in descending order

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396
papers

16,123
citations

16411

64
h-index

30010

103
g-index

408
all docs

408
docs citations

408
times ranked

6260
citing authors

#	ARTICLE	IF	CITATIONS
1	SOLAR INFLUENCES ON CLIMATE. <i>Reviews of Geophysics</i> , 2010, 48, .	9.0	1,014
2	A doubling of the Sun's coronal magnetic field during the past 100 years. <i>Nature</i> , 1999, 399, 437-439.	13.7	501
3	Dependence of convective flows and particle precipitation in the high-latitude dayside ionosphere on the X and Y components of the interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 1991, 96, 5557-5564.	3.3	269
4	The cleft ion fountain. <i>Journal of Geophysical Research</i> , 1985, 90, 9736-9748.	3.3	241
5	A new source of suprathermal O^{+} ions near the dayside polar cap boundary. <i>Journal of Geophysical Research</i> , 1985, 90, 4099-4116.	3.3	215
6	Midday auroral breakup events and related energy and momentum transfer from the magnetosheath. <i>Journal of Geophysical Research</i> , 1990, 95, 1039-1060.	3.3	188
7	Interplanetary magnetic field control of dayside auroral activity and the transfer of momentum across the dayside magnetopause. <i>Planetary and Space Science</i> , 1989, 37, 1347-1365.	0.9	179
8	Production of polar cap electron density patches by transient magnetopause reconnection. <i>Geophysical Research Letters</i> , 1992, 19, 1731-1734.	1.5	178
9	The excitation of plasma convection in the high-latitude ionosphere. <i>Journal of Geophysical Research</i> , 1990, 95, 7961-7972.	3.3	176
10	First imaging of corotating interaction regions using the STEREO spacecraft. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	165
11	Earth's magnetospheric cusps. <i>Reviews of Geophysics</i> , 1996, 34, 233-260.	9.0	164
12	The variation of reconnection rate at the dayside magnetopause and cusp ion precipitation. <i>Journal of Geophysical Research</i> , 1992, 97, 14841-14847.	3.3	160
13	Reconnection at the high-latitude magnetopause during northward interplanetary magnetic field conditions. <i>Journal of Geophysical Research</i> , 2001, 106, 25467-25488.	3.3	158
14	The Maunder minimum (1645–1715) was indeed a grand minimum: A reassessment of multiple datasets. <i>Astronomy and Astrophysics</i> , 2015, 581, A95.	2.1	158
15	Low and middle altitude cusp particle signatures for general magnetopause reconnection rate variations: 1. Theory. <i>Journal of Geophysical Research</i> , 1994, 99, 8531.	3.3	152
16	Potential influences on the United Kingdom's floods of winter 2013/14. <i>Nature Climate Change</i> , 2014, 4, 769-777.	8.1	149
17	Recent oppositely directed trends in solar climate forcings and the global mean surface air temperature. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2007, 463, 2447-2460.	1.0	148
18	Are cold winters in Europe associated with low solar activity?. <i>Environmental Research Letters</i> , 2010, 5, 024001.	2.2	148

#	ARTICLE	IF	CITATIONS
19	Detection and Attribution of Climate Change: from Global to Regional. , 2014, , 867-952.		144
20	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. Planetary and Space Science, 1988, 36, 471-498.	0.9	138
21	THE RISE AND FALL OF OPEN SOLAR FLUX DURING THE CURRENT GRAND SOLAR MAXIMUM. Astrophysical Journal, 2009, 700, 937-944.	1.6	137
22	The Solar Orbiter magnetometer. Astronomy and Astrophysics, 2020, 642, A9.	2.1	136
23	Solar Influence on Global and Regional Climates. Surveys in Geophysics, 2012, 33, 503-534.	2.1	135
24	Solar causes of the long-term increase in geomagnetic activity. Journal of Geophysical Research, 1999, 104, 28325-28342.	3.3	133
25	On the quasi-periodic nature of magnetopause flux transfer events. Journal of Geophysical Research, 1993, 98, 5935-5940.	3.3	132
26	The ionospheric signatures of flux transfer events and solar wind dynamic pressure changes. Journal of Geophysical Research, 1990, 95, 17113-17135.	3.3	130
27	Pressure-driven magnetopause motions and attendant response on the ground. Planetary and Space Science, 1989, 37, 589-607.	0.9	127
28	Upwelling O ⁺ ion source characteristics. Journal of Geophysical Research, 1986, 91, 7019-7031.	3.3	122
29	Solar change and climate: an update in the light of the current exceptional solar minimum. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2010, 466, 303-329.	1.0	119
30	The cleft ion fountain: A two-dimensional kinetic model. Journal of Geophysical Research, 1985, 90, 9749-9762.	3.3	116
31	Ionospheric signatures of pulsed reconnection at the Earth's magnetopause. Nature, 1993, 361, 424-428.	13.7	115
32	On the importance of interplanetary magnetic field B_y on polar cap patch formation. Journal of Geophysical Research, 2011, 116, .	3.3	114
33	Direct Observations of the Evolution of Polar Cap Ionization Patches. Science, 2013, 339, 1597-1600.	6.0	111
34	Stereoscopic imaging of an Earth-impacting solar coronal mass ejection: A major milestone for the STEREO mission. Geophysical Research Letters, 2009, 36, .	1.5	110
35	Long-term drift of the coronal source magnetic flux and the total solar irradiance. Geophysical Research Letters, 1999, 26, 2461-2464.	1.5	109
36	Enhanced signature of solar variability in Eurasian winter climate. Geophysical Research Letters, 2010, 37, .	1.5	108

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37	Reconstruction and Prediction of Variations in the Open Solar Magnetic Flux and Interplanetary Conditions. <i>Living Reviews in Solar Physics</i> , 2013, 10, 1.	7.8	101
38	A New Calibrated Sunspot Group Series Since 1749: Statistics of Active Day Fractions. <i>Solar Physics</i> , 2016, 291, 2685-2708.	1.0	101
39	Results from the CERN pilot CLOUD experiment. <i>Atmospheric Chemistry and Physics</i> , 2010, 10, 1635-1647.	1.9	96
40	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.	0.9	95
41	A Multispacecraft Analysis of a Small-Scale Transient Entrained by Solar Wind Streams. <i>Solar Physics</i> , 2009, 256, 307-326.	1.0	93
42	Effects of a mid-latitude solar eclipse on the thermosphere and ionosphere - A modelling study. <i>Geophysical Research Letters</i> , 1998, 25, 3787-3790.	1.5	89
43	Flux transfer events at the magnetopause and in the ionosphere. <i>Geophysical Research Letters</i> , 1990, 17, 2241-2244.	1.5	88
44	Low-altitude signatures of the cusp and flux transfer events. <i>Geophysical Research Letters</i> , 1989, 16, 879-882.	1.5	83
45	Centennial changes in the solar wind speed and in the open solar flux. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	82
46	Dayside auroral activity and magnetic flux transfer from the solar wind. <i>Geophysical Research Letters</i> , 1989, 16, 33-36.	1.5	81
47	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.	1.5	80
48	Intermittent release of transients in the slow solar wind: 1. Remote sensing observations. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	80
49	Long-term variations in the magnetic fields of the Sun and the heliosphere: Their origin, effects, and implications. <i>Journal of Geophysical Research</i> , 2001, 106, 16021-16038.	3.3	79
50	Non-Maxwellian ion velocity distributions observed using EISCAT. <i>Geophysical Research Letters</i> , 1987, 14, 111-114.	1.5	78
51	the pulsating cusp. <i>Geophysical Research Letters</i> , 1990, 17, 1069-1072.	1.5	78
52	Superthermal ion signatures of auroral acceleration processes. <i>Journal of Geophysical Research</i> , 1985, 90, 1611-1618.	3.3	77
53	EISCAT observations of bursts of rapid flow in the high latitude dayside ionosphere. <i>Geophysical Research Letters</i> , 1986, 13, 909-912.	1.5	76
54	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.	3.3	75

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55	Regional climate impacts of a possible future grand solar minimum. <i>Nature Communications</i> , 2015, 6, 7535.	5.8	75
56	Relationship of dayside auroral precipitations to the open-closed separatrix and the pattern of convective flow. <i>Journal of Geophysical Research</i> , 1997, 102, 17475-17487.	3.3	73
57	Multi-instrument ground-based observations of a travelling convection vortices event. <i>Annales Geophysicae</i> , 1996, 14, 162-181.	0.6	70
58	The Evolution of the Sun's Open Magnetic Flux – II. Full Solar Cycle Simulations. <i>Solar Physics</i> , 2002, 209, 287-309.	1.0	70
59	Events of enhanced convection and related dayside auroral activity. <i>Journal of Geophysical Research</i> , 1995, 100, 23917.	3.3	69
60	Plasma transfer processes at the magnetopause. <i>Space Science Reviews</i> , 1999, 88, 207-283.	3.7	69
61	Variability of the interplanetary medium at 1 a.u. over 24 years: 1963–1986. <i>Planetary and Space Science</i> , 1991, 39, 411-423.	0.9	68
62	Twenty-three cycles of changing open solar magnetic flux. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	67
63	Reconfiguration and closure of lobe flux by reconnection during northward IMF: possible evidence for signatures in cusp/cleft auroral emissions. <i>Annales Geophysicae</i> , 1999, 17, 996-1011.	0.6	66
64	Variability of dayside convection and motions of the cusp/cleft aurora. <i>Geophysical Research Letters</i> , 1993, 20, 1011-1014.	1.5	65
65	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, .	3.3	65
66	Predicting space climate change. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	65
67	INFERRING THE STRUCTURE OF THE SOLAR CORONA AND INNER HELIOSPHERE DURING THE MAUNDER MINIMUM USING GLOBAL THERMODYNAMIC MAGNETOHYDRODYNAMIC SIMULATIONS. <i>Astrophysical Journal</i> , 2015, 802, 105.	1.6	65
68	On the origins and timescales of geoeffective IMF. <i>Space Weather</i> , 2016, 14, 406-432.	1.3	65
69	Coronal mass ejections are not coherent magnetohydrodynamic structures. <i>Scientific Reports</i> , 2017, 7, 4152.	1.6	65
70	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, 19373-19380.	3.3	64
71	Cyclic loss of open solar flux since 1868: The link to heliospheric current sheet tilt and implications for the Maunder Minimum. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	64
72	Evidence of component merging equatorward of the cusp. <i>Journal of Geophysical Research</i> , 1999, 104, 22623-22633.	3.3	62

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73	Solar wind-magnetosphere coupling functions on timescales of 1 day to 1 year. <i>Annales Geophysicae</i> , 2007, 25, 495-506.	0.6	62
74	Heliospheric modulation of galactic cosmic rays during grand solar minima: Past and future variations. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	61
75	Direct observations of the full Dungey convection cycle in the polar ionosphere for southward interplanetary magnetic field conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4519-4530.	0.8	61
76	Excess open solar magnetic flux from satellite data: 2. A survey of kinematic effects. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	60
77	Solar origin of heliospheric magnetic field inversions: Evidence for coronal loop opening within pseudostreamers. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1868-1879.	0.8	60
78	Reconstruction of geomagnetic activity and near-Earth interplanetary conditions over the past 167 yr – Part 4: Near-Earth solar wind speed, IMF, and open solar flux. <i>Annales Geophysicae</i> , 2014, 32, 383-399.	0.6	60
79	Comment on “A statistical study of the ionospheric convection response to changing interplanetary magnetic field conditions using the assimilative mapping of ionospheric electrodynamics technique” by Å.J. Ridley et al.. <i>Journal of Geophysical Research</i> , 1999, 104, 4387-4391.	3.3	59
80	Effects of solar wind magnetosphere coupling recorded at different geomagnetic latitudes: Separation of directly-driven and storage/release systems. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	59
81	How is open solar magnetic flux lost over the solar cycle?. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	56
82	Polar cap patch segmentation of the tongue of ionization in the morning convection cell. <i>Geophysical Research Letters</i> , 2013, 40, 2918-2922.	1.5	56
83	The statistical cusp: a flux transfer event model. <i>Planetary and Space Science</i> , 1992, 40, 1251-1268.	0.9	54
84	The Maunder minimum and the Little Ice Age: an update from recent reconstructions and climate simulations. <i>Journal of Space Weather and Space Climate</i> , 2017, 7, A33.	1.1	54
85	Open solar flux estimates from near-Earth measurements of the interplanetary magnetic field: comparison of the first two perihelion passes of the Ulysses spacecraft. <i>Annales Geophysicae</i> , 2004, 22, 1395-1405.	0.6	53
86	The 22-Year Hale Cycle in Cosmic Ray Flux – Evidence for Direct Heliospheric Modulation. <i>Solar Physics</i> , 2014, 289, 407-421.	1.0	53
87	Implications of the altitude of transient 630-nm dayside auroral emissions. <i>Journal of Geophysical Research</i> , 1993, 98, 15571-15587.	3.3	52
88	On the cause of a magnetospheric flux transfer event. <i>Journal of Geophysical Research</i> , 1998, 103, 26453-26478.	3.3	52
89	Intermittent release of transients in the slow solar wind: 2. In situ evidence. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	52
90	Global solar wind variations over the last four centuries. <i>Scientific Reports</i> , 2017, 7, 41548.	1.6	52

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91	Centennial variations in sunspot number, open solar flux, and streamer belt width: 1. Correction of the sunspot number record since 1874. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5172-5182.	0.8	51
92	Flow-aligned jets in the magnetospheric cusp: Results from the Geospace Environment Modeling Pilot Program. <i>Journal of Geophysical Research</i> , 1995, 100, 7649.	3.3	50
93	Flux transfer events at the dayside magnetopause: Transient reconnection or magnetosheath dynamic pressure pulses?. <i>Journal of Geophysical Research</i> , 1991, 96, 5497-5509.	3.3	49
94	On the longitudinal extent of magnetopause reconnection pulses. <i>Annales Geophysicae</i> , 1996, 14, 865-878.	0.6	49
95	Evidence for solar wind modulation of lightning. <i>Environmental Research Letters</i> , 2014, 9, 055004.	2.2	49
96	Coordinated Cluster/Double Star observations of dayside reconnection signatures. <i>Annales Geophysicae</i> , 2005, 23, 2867-2875.	0.6	47
97	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.	0.9	46
98	Oscillations in the open solar magnetic flux with a period of 1.68 years: imprint on galactic cosmic rays and implications for heliospheric shielding. <i>Annales Geophysicae</i> , 2004, 22, 4381-4395.	0.6	45
99	Recent oppositely directed trends in solar climate forcings and the global mean surface air temperature. II. Different reconstructions of the total solar irradiance variation and dependence on response time scale. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008, 464, 1367-1385.	1.0	45
100	Centennial changes in the heliospheric magnetic field and open solar flux: The consensus view from geomagnetic data and cosmogenic isotopes and its implications. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	45
101	The persistence of solar activity indicators and the descent of the Sun into Maunder Minimum conditions. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	45
102	The contribution of flux transfer events to convection. <i>Geophysical Research Letters</i> , 1995, 22, 1185-1188.	1.5	44
103	Solar cycle 24: Implications for energetic particles and long-term space climate change. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	44
104	A Computationally Efficient, Time-Dependent Model of the Solar Wind for Use as a Surrogate to Three-Dimensional Numerical Magnetohydrodynamic Simulations. <i>Solar Physics</i> , 2020, 295, 1.	1.0	44
105	Non-thermal plasma observations using EISCAT: Aspect angle dependence. <i>Geophysical Research Letters</i> , 1987, 14, 957-960.	1.5	43
106	Ionospheric origin of magnetospheric O ⁺ ions. <i>Geophysical Research Letters</i> , 1981, 8, 381-384.	1.5	42
107	On flow reversal boundaries and transpolar voltage in average models of high-latitude convection. <i>Planetary and Space Science</i> , 1991, 39, 397-409.	0.9	42
108	Top-down solar modulation of climate: evidence for centennial-scale change. <i>Environmental Research Letters</i> , 2010, 5, 034008.	2.2	42

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109	Semi-annual, annual and Universal Time variations in the magnetosphere and in geomagnetic activity: 1. Geomagnetic data. <i>Journal of Space Weather and Space Climate</i> , 2020, 10, 23.	1.1	42
110	The modelled occurrence of non-thermal plasma in the ionospheric F ₂ region and the possible consequences for ion outflows into the magnetosphere. <i>Geophysical Research Letters</i> , 1987, 14, 371-374.	1.5	41
111	The Evolution of the Sun's Open Magnetic Flux " I. A Single Bipole. <i>Solar Physics</i> , 2002, 207, 291-308.	1.0	41
112	Comment on "The IDV index: Its derivation and use in inferring long-term variations of the interplanetary magnetic field strength" by Leif Svalgaard and Edward W. Cliver. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	41
113	Extended Magnetic Reconnection across the Dayside Magnetopause. <i>Physical Review Letters</i> , 2011, 107, 025004.	2.9	41
114	Possible impacts of a future grand solar minimum on climate: Stratospheric and global circulation changes. <i>Journal of Geophysical Research D: Atmospheres</i> , 2015, 120, 9043-9058.	1.2	41
115	A numerical model of the ionospheric signatures of time-varying magnetic reconnection: I. ionospheric convection. <i>Annales Geophysicae</i> , 2004, 22, 73-91.	0.6	41
116	Large plasma velocities along the magnetic field line in the auroral zone. <i>Nature</i> , 1988, 336, 231-232.	13.7	40
117	Multiple, discrete arcs on sunward convecting field lines in the 14-15 MLT region. <i>Journal of Geophysical Research</i> , 1994, 99, 6113.	3.3	40
118	Modelling signatures of pulsed magnetopause reconnection in cusp ion dispersion signatures seen at middle altitudes. <i>Geophysical Research Letters</i> , 1998, 25, 591-594.	1.5	40
119	Solar cycle evolution of dipolar and pseudostreamer belts and their relation to the slow solar wind. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 36-46.	0.8	40
120	Observations at the magnetopause and in the auroral ionosphere of momentum transfer from the solar wind. <i>Advances in Space Research</i> , 1988, 8, 281-299.	1.2	39
121	Ion flows and heating at a contracting polar-cap boundary. <i>Planetary and Space Science</i> , 1988, 36, 1229-1253.	0.9	39
122	Ionospheric ion upwelling in the wake of flux transfer events at the dayside magnetopause. <i>Journal of Geophysical Research</i> , 1988, 93, 5641-5654.	3.3	39
123	Motion of the dayside polar cap boundary during substorm cycles: II. Generation of poleward-moving events and polar cap patches by pulses in the magnetopause reconnection rate. <i>Annales Geophysicae</i> , 2005, 23, 3513-3532.	0.6	39
124	A comparison between large-scale irregularities and scintillations in the polar ionosphere. <i>Geophysical Research Letters</i> , 2016, 43, 4790-4798.	1.5	39
125	Interplanetary magnetic field properties and variability near Mercury's orbit. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7907-7924.	0.8	39
126	ESR and EISCAT observations of the response of the cusp and cleft to IMF orientation changes. <i>Annales Geophysicae</i> , 2000, 18, 1009-1026.	0.6	38

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127	The Sun's Earth Connection in Time Scales from Years to Decades and Centuries. <i>Space Science Reviews</i> , 2001, 95, 625-637.	3.7	38
128	An evaluation of the correlation between open solar flux and total solar irradiance. <i>Astronomy and Astrophysics</i> , 2002, 382, 678-687.	2.1	38
129	Transpolar voltage and polar cap flux during the substorm cycle and steady convection events. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	38
130	Reconstruction of geomagnetic activity and near-Earth interplanetary conditions over the past 167 yr - Part 1: A new geomagnetic data composite. <i>Annales Geophysicae</i> , 2013, 31, 1957-1977.	0.6	38
131	How the magnetopause transition parameter works. <i>Geophysical Research Letters</i> , 1997, 24, 373-376.	1.5	37
132	Thermal ion flows in the topside auroral ionosphere and the effects of low-altitude, transverse acceleration. <i>Planetary and Space Science</i> , 1982, 30, 595-609.	0.9	36
133	The geomagnetic mass spectrometer's mass and energy dispersions of ionospheric ion flows into the magnetosphere. <i>Nature</i> , 1985, 316, 612-613.	13.7	36
134	Recent changes in solar outputs and the global mean surface temperature. III. Analysis of contributions to global mean air surface temperature rise. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2008, 464, 1387-1404.	1.0	36
135	What influence will future solar activity changes over the 21st century have on projected global near-surface temperature changes?. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	36
136	A statistical study of large field-aligned flows of thermal ions at high-latitudes. <i>Planetary and Space Science</i> , 1990, 38, 1187-1201.	0.9	35
137	Dayside moving auroral transients related to LLBL dynamics. <i>Geophysical Research Letters</i> , 1996, 23, 3247-3250.	1.5	35
138	Simultaneous optical and radar signatures of poleward-moving auroral forms. <i>Annales Geophysicae</i> , 2000, 18, 1054-1066.	0.6	35
139	Centennial variations in sunspot number, open solar flux and streamer belt width: 3. Modeling. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5193-5209.	0.8	35
140	The Development of a Space Climatology: 1. Solar Wind Magnetosphere Coupling as a Function of Timescale and the Effect of Data Gaps. <i>Space Weather</i> , 2019, 17, 133-156.	1.3	35
141	The excitation of ionospheric convection. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1991, 53, 177-199.	0.9	34
142	Ion acceleration at both the interior and exterior Alfvén waves associated with the magnetopause reconnection site: Signatures in cusp precipitation. <i>Journal of Geophysical Research</i> , 1996, 101, 21501-21513.	3.3	34
143	Plasma structure within poleward-moving cusp/cleft auroral transients: EISCAT Svalbard radar observations and an explanation in terms of large local time extent of events. <i>Annales Geophysicae</i> , 2000, 18, 1027-1042.	0.6	34
144	Cusp ion steps, field-aligned currents and poleward moving auroral forms. <i>Journal of Geophysical Research</i> , 2001, 106, 29555-29569.	3.3	34

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145	The dynamics and relationships of precipitation, temperature and convection boundaries in the dayside auroral ionosphere. <i>Annales Geophysicae</i> , 2004, 22, 1973-1987.	0.6	34
146	THE ACCURACY OF USING THE<i>ULYSSES</i> RESULT OF THE SPATIAL INVARIANCE OF THE RADIAL HELIOSPHERIC FIELD TO COMPUTE THE OPEN SOLAR FLUX. <i>Astrophysical Journal</i> , 2009, 701, 964-973.	1.6	34
147	Earth's ion upflow associated with polar cap patches: Global and in situ observations. <i>Geophysical Research Letters</i> , 2016, 43, 1845-1853.	1.5	34
148	AN ASSESSMENT OF SUNSPOT NUMBER DATA COMPOSITES OVER 1845â€“2014. <i>Astrophysical Journal</i> , 2016, 824, 54.	1.6	34
149	Tests of Sunspot Number Sequences: 3. Effects of Regression Procedures on the Calibration of Historic Sunspot Data. <i>Solar Physics</i> , 2016, 291, 2829-2841.	1.0	34
150	Sunward Strahl: A Method to Unambiguously Determine Open Solar Flux from In Situ Spacecraft Measurements Using Suprathermal Electron Data. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,980.	0.8	34
151	Hourly weather observations from the Scottish Highlands (1883â€“1904) rescued by volunteer citizen scientists. <i>Geoscience Data Journal</i> , 2019, 6, 160-173.	1.8	34
152	Analysis of incoherent scatter radar data from non-thermal F-region plasma. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1989, 51, 483-495.	0.9	33
153	Location and characteristics of the reconnection X line deduced from low-altitude satellite and ground-based observations: 1. Theory. <i>Journal of Geophysical Research</i> , 1995, 100, 21791-21802.	3.3	33
154	Excess open solar magnetic flux from satellite data: 1. Analysis of the third perihelion Ulysses pass. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	33
155	Nearâ€Earth heliospheric magnetic field intensity since 1750: 1. Sunspot and geomagnetic reconstructions. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6048-6063.	0.8	33
156	On the determination of ion temperature in the auroral F-region ionosphere. <i>Planetary and Space Science</i> , 1988, 36, 1295-1304.	0.9	32
157	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.	0.6	32
158	Reconstruction of geomagnetic activity and near-Earth interplanetary conditions over the past 167 yr â€“ Part 2: A new reconstruction of the interplanetary magnetic field. <i>Annales Geophysicae</i> , 2013, 31, 1979-1992.	0.6	32
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