

Michael Lockwood

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372
papers

12,768
citations

58
h-index

93
g-index

407
ext. papers

13,871
ext. citations

4.6
avg, IF

6.5
L-index

#	Paper	IF	Citations
372	SOLAR INFLUENCES ON CLIMATE. <i>Reviews of Geophysics</i> , 2010 , 48,	23.1	827
371	A doubling of the Sun's coronal magnetic field during the past 100 years. <i>Nature</i> , 1999 , 399, 437-439	50.4	431
370	The cleft ion fountain. <i>Journal of Geophysical Research</i> , 1985 , 90, 9736		219
369	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		214
368	A new source of suprathermal O ⁺ ions near the dayside polar cap boundary. <i>Journal of Geophysical Research</i> , 1985 , 90, 4099		195
367	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	2	159
366	Midday auroral breakup events and related energy and momentum transfer from the magnetosheath. <i>Journal of Geophysical Research</i> , 1990 , 95, 1039		155
365	First imaging of corotating interaction regions using the STEREO spacecraft. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	149
364	Production of polar cap electron density patches by transient magnetopause reconnection. <i>Geophysical Research Letters</i> , 1992 , 19, 1731-1734	4.9	149
363	The excitation of plasma convection in the high-latitude ionosphere. <i>Journal of Geophysical Research</i> , 1990 , 95, 7961		148
362	Are cold winters in Europe associated with low solar activity?. <i>Environmental Research Letters</i> , 2010 , 5, 024001	6.2	130
361	The dependence of high-latitude dayside ionospheric flows on the North-South component of the IMF: A high time resolution correlation analysis using EISCAT PolarB and AMPTE UKS and IRM data. <i>Planetary and Space Science</i> , 1988 , 36, 471-498	2	128
360	The Maunder minimum (1645-1715) was indeed a grand minimum: A reassessment of multiple datasets. <i>Astronomy and Astrophysics</i> , 2015 , 581, A95	5.1	127
359	THE RISE AND FALL OF OPEN SOLAR FLUX DURING THE CURRENT GRAND SOLAR MAXIMUM. <i>Astrophysical Journal</i> , 2009 , 700, 937-944	4.7	127
358	Low and middle altitude cusp particle signatures for general magnetopause reconnection rate variations: 1. Theory. <i>Journal of Geophysical Research</i> , 1994 , 99, 8531		127
357	Reconnection at the high-latitude magnetopause during northward interplanetary magnetic field conditions. <i>Journal of Geophysical Research</i> , 2001 , 106, 25467-25488		126
356	Earth's magnetospheric cusps. <i>Reviews of Geophysics</i> , 1996 , 34, 233-260	23.1	126

355	The variation of reconnection rate at the dayside magnetopause and cusp ion precipitation. <i>Journal of Geophysical Research</i> , 1992 , 97, 14841		126
354	Potential influences on the United Kingdom's floods of winter 2013/14. <i>Nature Climate Change</i> , 2014 , 4, 769-777	21.4	122
353	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	2.4	121
352	Upwelling O ⁺ ion source characteristics. <i>Journal of Geophysical Research</i> , 1986 , 91, 7019		117
351	Solar causes of the long-term increase in geomagnetic activity. <i>Journal of Geophysical Research</i> , 1999 , 104, 28325-28342		113
350	Pressure-driven magnetopause motions and attendant response on the ground. <i>Planetary and Space Science</i> , 1989 , 37, 589-607	2	113
349	Solar Influence on Global and Regional Climates. <i>Surveys in Geophysics</i> , 2012 , 33, 503-534	7.6	111
348	The cleft ion fountain: A two-dimensional kinetic model. <i>Journal of Geophysical Research</i> , 1985 , 90, 9749		110
347	The ionospheric signatures of flux transfer events and solar wind dynamic pressure changes. <i>Journal of Geophysical Research</i> , 1990 , 95, 17113		109
346	On the quasi-periodic nature of magnetopause flux transfer events. <i>Journal of Geophysical Research</i> , 1993 , 98, 5935-5940		108
345	On the importance of interplanetary magnetic field By on polar cap patch formation. <i>Journal of Geophysical Research</i> , 2011 , 116,		102
344	Stereoscopic imaging of an Earth-impacting solar coronal mass ejection: A major milestone for the STEREO mission. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	99
343	Ionospheric signatures of pulsed reconnection at the Earth's magnetopause. <i>Nature</i> , 1993 , 361, 424-428	50.4	98
342	Solar change and climate: an update in the light of the current exceptional solar minimum. <i>Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences</i> , 2010 , 466, 303-329	2.4	95
341	Direct observations of the evolution of polar cap ionization patches. <i>Science</i> , 2013 , 339, 1597-600	33.3	89
340	Enhanced signature of solar variability in Eurasian winter climate. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	89
339	Long-term drift of the coronal source magnetic flux and the total solar irradiance. <i>Geophysical Research Letters</i> , 1999 , 26, 2461-2464	4.9	89
338	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

337	Reconstruction and Prediction of Variations in the Open Solar Magnetic Flux and Interplanetary Conditions. <i>Living Reviews in Solar Physics</i> , 2013 , 10, 1	24.8	85
336	A Multispacecraft Analysis of a Small-Scale Transient Entrained by Solar Wind Streams. <i>Solar Physics</i> , 2009 , 256, 307-326	2.6	83
335	Results from the CERN pilot CLOUD experiment. <i>Atmospheric Chemistry and Physics</i> , 2010 , 10, 1635-1647	6.8	78
334	Effects of a mid-latitude solar eclipse on the thermosphere and ionosphere - A modelling study. <i>Geophysical Research Letters</i> , 1998 , 25, 3787-3790	4.9	78
333	Detection and Attribution of Climate Change: from Global to Regional	867-952	77
332	Low-altitude signatures of the cusp and flux transfer events. <i>Geophysical Research Letters</i> , 1989 , 16, 879-882	4.9	74
331	A New Calibrated Sunspot Group Series Since 1749: Statistics of Active Day Fractions. <i>Solar Physics</i> , 2016 , 291, 2685-2708	2.6	74
330	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
329	Superthermal ion signatures of auroral acceleration processes. <i>Journal of Geophysical Research</i> , 1985 , 90, 1611		71
328	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
327	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		70
326	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		70
325	the pulsating cusp. <i>Geophysical Research Letters</i> , 1990 , 17, 1069-1072	4.9	69
324	Non-Maxwellian ion velocity distributions observed using EISCAT. <i>Geophysical Research Letters</i> , 1987 , 14, 111-114	4.9	68
323	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		67
322	Dayside auroral activity and magnetic flux transfer from the solar wind. <i>Geophysical Research Letters</i> , 1989 , 16, 33-36	4.9	65
321	Flux transfer events at the magnetopause and in the ionosphere. <i>Geophysical Research Letters</i> , 1990 , 17, 2241-2244	4.9	63
320	Intermittent release of transients in the slow solar wind: 1. Remote sensing observations. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		62

319	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
318	The Evolution of the Sun's Open Magnetic Flux III. Full Solar Cycle Simulations. <i>Solar Physics</i> , 2002 , 209, 287-309	2.6	60
317	Plasma transfer processes at the magnetopause. <i>Space Science Reviews</i> , 1999 , 88, 207-283	7.5	60
316	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
315	Twenty-three cycles of changing open solar magnetic flux. <i>Journal of Geophysical Research</i> , 2003 , 108,		58
314	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
313	Solar wind-magnetosphere coupling functions on timescales of 1 day to 1 year. <i>Annales Geophysicae</i> , 2007 , 25, 495-506	2	55
312	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, n/a-n/a		54
311	Multi-instrument ground-based observations of a travelling convection vortices event. <i>Annales Geophysicae</i> , 1996 , 14, 162-181	2	54
310	On the origins and timescales of geoeffective IMF. <i>Space Weather</i> , 2016 , 14, 406-432	3.7	53
309	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 ²		53
308	Predicting space climate change. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	53
307	Evidence of component merging equatorward of the cusp. <i>Journal of Geophysical Research</i> , 1999 , 104, 22623-22633		52
306	Regional climate impacts of a possible future grand solar minimum. <i>Nature Communications</i> , 2015 , 6, 7535	17.4	51
305	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,	4.9	51
304	The Solar Orbiter magnetometer. <i>Astronomy and Astrophysics</i> , 2020 , 642, A9	5.1	51
303	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	2.6	50
302	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	2.6	49

301	How is open solar magnetic flux lost over the solar cycle?. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		49
300	The statistical cusp: a flux transfer event model. <i>Planetary and Space Science</i> , 1992 , 40, 1251-1268	2	49
299	Polar cap patch segmentation of the tongue of ionization in the morning convection cell. <i>Geophysical Research Letters</i> , 2013 , 40, 2918-2922	4.9	48
298	Excess open solar magnetic flux from satellite data: 2. A survey of kinematic effects. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		48
297	Heliospheric modulation of galactic cosmic rays during grand solar minima: Past and future variations. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	47
296	Events of enhanced convection and related dayside auroral activity. <i>Journal of Geophysical Research</i> , 1995 , 100, 23917		47
295	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	4.7	46
294	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	2	46
293	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	3.6	44
292	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
291	Intermittent release of transients in the slow solar wind: 2. In situ evidence. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		42
290	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		42
289	Coordinated Cluster/Double Star observations of dayside reconnection signatures. <i>Annales Geophysicae</i> , 2005 , 23, 2867-2875	2	42
288	On the cause of a magnetospheric flux transfer event. <i>Journal of Geophysical Research</i> , 1998 , 103, 26453-26478		42
287	Flow-aligned jets in the magnetospheric cusp: Results from the Geospace Environment Modeling Pilot Program. <i>Journal of Geophysical Research</i> , 1995 , 100, 7649		42
286	Flux transfer events at the dayside magnetopause: Transient reconnection or magnetosheath dynamic pressure pulses?. <i>Journal of Geophysical Research</i> , 1991 , 96, 5497		42
285	Non-thermal plasma observations using EISCAT: Aspect angle dependence. <i>Geophysical Research Letters</i> , 1987 , 14, 957-960	4.9	42
284	Coronal mass ejections are not coherent magnetohydrodynamic structures. <i>Scientific Reports</i> , 2017 , 7, 4152	4.9	40

283	Evidence for solar wind modulation of lightning. <i>Environmental Research Letters</i> , 2014 , 9, 055004	6.2	40
282	Variability of dayside convection and motions of the cusp/cleft aurora. <i>Geophysical Research Letters</i> , 1993 , 20, 1011-1014	4.9	40
281	Extended magnetic reconnection across the dayside magnetopause. <i>Physical Review Letters</i> , 2011 , 107, 025004	7.4	39
280	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	2	39
279	Ionospheric ion upwelling in the wake of flux transfer events at the dayside magnetopause. <i>Journal of Geophysical Research</i> , 1988 , 93, 5641		39
278	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> , 2009 , 464, 1847-1865	2.4	38
277	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	2	38
276	Global solar wind variations over the last four centuries. <i>Scientific Reports</i> , 2017 , 7, 41548	4.9	37
275	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		37
274	Ionospheric origin of magnetospheric O ⁺ ions. <i>Geophysical Research Letters</i> , 1981 , 8, 381-384	4.9	37
273	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	4.9	36
272	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,		36
271	The Evolution of the Sun's Open Magnetic Flux II. A Single Bipole. <i>Solar Physics</i> , 2002 , 207, 291-308	2.6	36
270	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	2.4	36
269	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	2.5	35
268	Top-down solar modulation of climate: evidence for centennial-scale change. <i>Environmental Research Letters</i> , 2010 , 5, 034008	6.2	35
267	The contribution of flux transfer events to convection. <i>Geophysical Research Letters</i> , 1995 , 22, 1185-1188	4.9	35
266	Implications of the altitude of transient 630-nm dayside auroral emissions. <i>Journal of Geophysical Research</i> , 1993 , 98, 15571		35

265	The modelled occurrence of non-thermal plasma in the ionospheric F-region and the possible consequences for ion outflows into the magnetosphere. <i>Geophysical Research Letters</i> , 1987 , 14, 371-374	4.9	35
264	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	2.6	34
263	The 22-Year Hale Cycle in Cosmic Ray Flux [Evidence for Direct Heliospheric Modulation. <i>Solar Physics</i> , 2014 , 289, 407-421	2.6	34
262	Large plasma velocities along the magnetic field line in the auroral zone. <i>Nature</i> , 1988 , 336, 231-232	50.4	34
261	The geomagnetic mass spectrometer [mass and energy dispersions of ionospheric ion flows into the magnetosphere. <i>Nature</i> , 1985 , 316, 612-613	50.4	34
260	Solar cycle 24: Implications for energetic particles and long-term space climate change. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	33
259	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 A.J. Ridley et al.. <i>Journal of Geophysical Research</i> , 1999 , 104, 4387-4391		33
258	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	2	32
257	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	2	32
256	Multiple, discrete arcs on sunward convecting field lines in the 14-15 MLT region. <i>Journal of Geophysical Research</i> , 1994 , 99, 6113		32
255	On flow reversal boundaries and transpolar voltage in average models of high-latitude convection. <i>Planetary and Space Science</i> , 1991 , 39, 397-409	2	32
254	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		32
253	Ion flows and heating at a contracting polar-cap boundary. <i>Planetary and Space Science</i> , 1988 , 36, 1229-1253		32
252	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	4.4	31
251	How the magnetopause transition parameter works. <i>Geophysical Research Letters</i> , 1997 , 24, 373-376	4.9	31
250	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	2	31
249	A comparison between large-scale irregularities and scintillations in the polar ionosphere. <i>Geophysical Research Letters</i> , 2016 , 43, 4790-4798	4.9	30
248	THE ACCURACY OF USING THE ULYSSES RESULT OF THE SPATIAL INVARIANCE OF THE RADIAL HELIOSPHERIC FIELD TO COMPUTE THE OPEN SOLAR FLUX. <i>Astrophysical Journal</i> , 2009 , 701, 964-973	4.7	30

247	An evaluation of the correlation between open solar flux and total solar irradiance. <i>Astronomy and Astrophysics</i> , 2002 , 382, 678-687	5.1	30
246	The SunEarth Connection in Time Scales from Years to Decades and Centuries. <i>Space Science Reviews</i> , 2001 , 95, 625-637	7.5	30
245	Modelling signatures of pulsed magnetopause reconnection in cusp ion dispersion signatures seen at middle altitudes. <i>Geophysical Research Letters</i> , 1998 , 25, 591-594	4.9	30
244	On the longitudinal extent of magnetopause reconnection pulses. <i>Annales Geophysicae</i> , 1996 , 14, 865-878		30
243	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	2.6	29
242	A statistical study of large field-aligned flows of thermal ions at high-latitudes. <i>Planetary and Space Science</i> , 1990 , 38, 1187-1201	2	29
241	On the determination of ion temperature in the auroral F-region ionosphere. <i>Planetary and Space Science</i> , 1988 , 36, 1295-1304	2	29
240	A numerical model of the ionospheric signatures of time-varying magnetic reconnection: I. ionospheric convection. <i>Annales Geophysicae</i> , 2004 , 22, 73-91	2	29
239	Earth's ion upflow associated with polar cap patches: Global and in situ observations. <i>Geophysical Research Letters</i> , 2016 , 43, 1845-1853	4.9	28
238	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	2.6	28
237	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, n/a-n/a		28
236	Reconstruction of geomagnetic activity and near-Earth interplanetary conditions over the past 167 yr [Part 2: A new reconstruction of the interplanetary magnetic field. <i>Annales Geophysicae</i> , 2013 , 31, 1979-1992	2	28
235	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	2.4	28
234	Cusp ion steps, field-aligned currents and poleward moving auroral forms. <i>Journal of Geophysical Research</i> , 2001 , 106, 29555-29569		28
233	Auroral and plasma flow transients at magnetic noon. <i>Planetary and Space Science</i> , 1990 , 38, 973-993	2	28
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231	Transpolar voltage and polar cap flux during the substorm cycle and steady convection events. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		27
230	Near-Earth heliospheric magnetic field intensity since 1750: 1. Sunspot and geomagnetic reconstructions. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6048-6063	2.6	27

- 229 Excess open solar magnetic flux from satellite data: 1. Analysis of the third perihelion Ulysses pass. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a 26
- 228 The dynamics and relationships of precipitation, temperature and convection boundaries in the dayside auroral ionosphere. *Annales Geophysicae*, **2004**, 22, 1973-1987 2 26
- 227 Comment on Mapping the dayside ionosphere to the magnetosphere according to particle precipitation characteristics by Newell and Meng. *Geophysical Research Letters*, **1993**, 20, 1739-1740 4.9 26
- 226 Incoherent scatter radar observations of non-Maxwellian ion velocity distributions in the auroral F-region. *Advances in Space Research*, **1989**, 9, 113-118 2.4 26
- 225 Reply [to Comment on Low-altitude signatures of the cusp and flux transfer events] *Geophysical Research Letters*, **1990**, 17, 305-306 4.9 26
- 224 Thermospheric control of the auroral source of O⁺ ions for the magnetosphere. *Journal of Geophysical Research*, **1984**, 89, 301-315 26
- 223 Polar cap hot patches: Enhanced density structures different from the classical patches in the ionosphere. *Geophysical Research Letters*, **2017**, 44, 8159-8167 4.9 24
- 222 Ionospheric measurements of relative coronal brightness during the total solar eclipses of 11 August, 1999 and 9 July, 1945. *Annales Geophysicae*, **2000**, 18, 182-190 2 24
- 221 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 2 24
- 220 Dayside moving auroral transients related to LLBL dynamics. *Geophysical Research Letters*, **1996**, 23, 3247-3250 2.4 24
- 219 Ion acceleration at both the interior and exterior Alfvén waves associated with the magnetopause reconnection site: Signatures in cusp precipitation. *Journal of Geophysical Research*, **1996**, 101, 21501-21513 24
- 218 The excitation of ionospheric convection. *Journal of Atmospheric and Solar-Terrestrial Physics*, **1991**, 53, 177-199 24
- 217 Galactic Cosmic Ray Modulation near the Heliospheric Current Sheet. *Solar Physics*, **2014**, 289, 2653-2668 2.6 23
- 216 Sunward Strahl: A Method to Unambiguously Determine Open Solar Flux from In Situ Spacecraft Measurements Using Suprathermal Electron Data. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 10,980-10,989 2.6 23
- 215 Modulation of UK lightning by heliospheric magnetic field polarity. *Environmental Research Letters*, **2014**, 9, 115009 6.2 23
- 214 ESR and EISCAT observations of the response of the cusp and cleft to IMF orientation changes. *Annales Geophysicae*, **2000**, 18, 1009-1026 2 23
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- 212 The distribution of the ring current: Cluster observations. *Annales Geophysicae*, **2011**, 29, 1655-1662 2 22

211	What do Cosmogenic Isotopes Tell us About Past Solar Forcing of Climate?. <i>Space Science Reviews</i> , 2007 , 125, 95-109	7.5	22
210	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		22
209	Transient reconnection: Search for ionospheric signatures. <i>Eos</i> , 1990 , 71, 709	1.5	22
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