K M Laundal

List of Publications by Citations

52	900	18	28
papers	citations	h-index	g-index

59	1,161	3.9	4.53
ext. papers	ext. citations	avg, IF	L-index

#	Paper	IF	Citations
52	Magnetic Coordinate Systems. *Space Science Reviews*, **2017**, 206, 27-59	7.5	114
51	Asymmetric auroral intensities in the Earth's Northern and Southern hemispheres. *Nature*, **2009**, 460, 491-493	50.4	67
50	Overview of Solar Wind–Magnetosphere–Ionosphere–Atmosphere Coupling and the Generation of Magnetospheric Currents. *Space Science Reviews*, **2017**, 206, 547-573	7.5	64
49	How the IMF By induces a By component in the closed magnetosphere and how it leads to asymmetric currents and convection patterns in the two hemispheres. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 9368-9384	2.6	64
48	North–South Asymmetries in Earth's Magnetic Field. *Space Science Reviews*, **2017**, 206, 225-257	7.5	52
47	The impact of sunlight on high-latitude equivalent currents. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 2715-2726	2.6	34
46	Solar Wind and Seasonal Influence on Ionospheric Currents From Swarm and CHAMP Measurements. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 4402-4429	2.6	34
45	Interhemispherical asymmetry of substorm onset locations and the interplanetary magnetic field. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	29
44	Birkeland current effects on high-latitude ground magnetic field perturbations. *Geophysical Research Letters*, **2015**, 42, 7248-7254	4.9	26
43	Magnetospheric response and reconfiguration times following IMF By reversals. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 417-431	2.6	24
42	On the non-conjugacy of nightside aurora and their generator mechanisms. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 3394-3406	2.6	24
41	What is the appropriate coordinate system for magnetometer data when analyzing ionospheric currents?. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 8637-8647	2.6	22
40	North-south asymmetries in cold plasma density in the magnetotail lobes: Cluster observations. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 136-149	2.6	21
39	Intensity asymmetries in the dusk sector of the poleward auroral oval due to IMF Bx. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 9497-9507	2.6	21
38	Sunlight effects on the 3D polar current system determined from low Earth orbit measurements. *Earth, Planets and Space*, **2016**, 68,	2.9	20
37	Evolution of auroral asymmetries in the conjugate hemispheres during two substorms. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	19
36	Interhemispheric observations of emerging polar cap asymmetries. *Journal of Geophysical Research*, **2010**, 115,		19

35	Dynamic effects of restoring footpoint symmetry on closed magnetic field lines. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 3963-3977	2.6	18
34	How the IMF By Induces a Local By Component During Northward IMF Bz and Characteristic Timescales. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 3333-3348	2.6	17
33	Coincident particle and optical observations of nightside subauroral proton precipitation. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 1112-1122	2.6	17
32	Persistent global proton aurora caused by high solar wind dynamic pressure. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		17
31	Observations of Asymmetries in Ionospheric Return Flow During Different Levels of Geomagnetic Activity. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 4638-4651	2.6	15
30	Magnetic Field Perturbations from Currents in the Dark Polar Regions During Quiet Geomagnetic Conditions. *Space Science Reviews*, **2017**, 206, 281-297	7.5	14
29	Dayside and nightside magnetic field responses at 780 km altitude to dayside reconnection. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 1670-1689	2.6	13
28	Auroral Asymmetries in the Conjugate Hemispheres and Interhemispheric Currents. *Geophysical Monograph Series*, **2013**, 99-112	1.1	13
27	The asymmetric geospace as displayed during the geomagnetic storm on 17 August 2001. *Annales Geophysicae*, **2018**, 36, 1577-1596	2	12
26	Evolution of Asymmetrically Displaced Footpoints During Substorms. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 10,030	2.6	11
25	Snakes on a Spaceship An Overview of Python in Heliophysics. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 10,384	2.6	11
24	Timescales of Dayside and Nightside Field-Aligned Current Response to Changes in Solar Wind-Magnetosphere Coupling. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 7307-7319	2.6	10
23	Interplanetary Magnetic Field Bx Component Influence on Horizontal and Field-Aligned Currents in the Ionosphere. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 3360-3379	2.6	9
22	Seasonal and interplanetary magnetic field dependent polar cap contraction during substorm expansion phase. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		9
21	Magnetic Effects of Plasma Pressure Gradients in the Upper F Region. *Geophysical Research Letters*, **2019**, 46, 2355-2363	4.9	7
20	An Explicit IMF B Dependence on Solar Wind-Magnetosphere Coupling. *Geophysical Research Letters*, **2020**, 47, e2019GL086062	4.9	7
19	IMF By Influence on Magnetospheric Convection in Earth's Magnetotail Plasma Sheet. *Geophysical Research Letters*, **2019**, 46, 11698-11708	4.9	7
18	Separation and Quantification of Ionospheric Convection Sources: 2. The Dipole Tilt Angle Influence on Reverse Convection Cells During Northward IMF. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 6182-6194	2.6	6

17	Observations of Asymmetric Lobe Convection for Weak and Strong Tail Activity. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 9999-10017	2.6	6
16	Seasonal and Hemispheric Asymmetries of F Region Polar Cap Plasma Density: Swarm and CHAMP Observations. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028084	2.6	5
15	The asymmetric geospace as displayed during the geomagnetic storm on August 17, 2001 **2018**,		4
14	In Situ Monitoring of Growth Interfaces: A Review of Noninvasive Methods. *Jom*, **2012**, 64, 96-101	2.1	4
13	Time-scale dependence of solar wind-based regression models of ionospheric electrodynamics. *Scientific Reports*, **2020**, 10, 16406	4.9	4
12	Separation and Quantification of Ionospheric Convection Sources: 1. A New Technique. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 6343-6357	2.6	2
11	Seasonal and Solar Cycle Variations of Thermally Excited 630.0 nm Emissions in the Polar Ionosphere. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 7029-7039	2.6	2
10	Magnetic Coordinate Systems. *Space Sciences Series of ISSI*, **2018**, 29-61	0.1	2
9	The Relationship Between Cusp Region Ion Outflows and East-West Magnetic Field Fluctuations at 4,000-km Altitude. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027454	2.6	1
8	Quantifying the lobe reconnection rate during dominant IMF By periods and different dipole tilt orientations. *Journal of Geophysical Research: Space Physics*,e2021JA029742	2.6	1
7	Electrojet Estimates From Mesospheric Magnetic Field Measurements. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028644	2.6	1
6	Evolution of IMF By Induced Asymmetries: The Role of Tail Reconnection. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029577	2.6	0
5	Exploring solar-terrestrial interactions via multiple imaging observers. *Experimental Astronomy*,1	1.3	0
4	Possible Ionospheric Influence on Substorm Onset Location. *Geophysical Research Letters*, **2022**, 49,	4.9	0
3	North South Asymmetries in Earth Magnetic Field. *Space Sciences Series of ISSI*, **2018**, 231-263	0.1	
2	Magnetic Field Perturbations from Currents in the Dark Polar Regions During Quiet Geomagnetic Conditions. *Space Sciences Series of ISSI*, **2018**, 289-305	0.1	
1	Overview of Solar Wind Magnetosphere Ionosphere Atmosphere Coupling and the Generation of Magnetospheric Currents. *Space Sciences Series of ISSI*, **2018**, 555-581	0.1	