

Dirk Lummerzheim

List of Publications by Year in descending order

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42
papers

1,382
citations

331259
21
h-index

329751
37
g-index

42
all docs

42
docs citations

42
times ranked

1325
citing authors

#	ARTICLE	IF	CITATIONS
1	Global energy deposition during the January 1997 magnetic cloud event. Journal of Geophysical Research, 1998, 103, 11685-11694.	3.3	159
2	Effect of solar wind pressure pulses on the size and strength of the auroral oval. Journal of Geophysical Research, 2003, 108, .	3.3	135
3	Remote determination of auroral energy characteristics during substorm activity. Geophysical Research Letters, 1997, 24, 995-998.	1.5	108
4	On magnetospheric electron impact ionisation and dynamics in Titan's ram-side and polar ionosphere – a Cassini case study. Annales Geophysicae, 2007, 25, 2359-2369.	0.6	78
5	Angular dependent transport of auroral electrons in the upper atmosphere. Planetary and Space Science, 1989, 37, 109-129.	0.9	66
6	The Effect of the January 10, 1997, pressure pulse on the magnetosphere-ionosphere current system. Geophysical Monograph Series, 2000, , 217-226.	0.1	66
7	Enhanced solar wind geoeffectiveness after a sudden increase in dynamic pressure during southward IMF orientation. Journal of Geophysical Research, 2005, 110, .	3.3	66
8	High time resolution study of the hemispheric power carried by energetic electrons into the ionosphere during the May 19/20,1996 auroral activity. Geophysical Research Letters, 1997, 24, 987-990.	1.5	65
9	Magnetospheric reconnection driven by solar wind pressure fronts. Annales Geophysicae, 2004, 22, 1367-1378.	0.6	61
10	Ionospheric conductances derived from DE-1 auroral images. Journal of Atmospheric and Solar-Terrestrial Physics, 1991, 53, 281-292.	0.9	56
11	The profile of the hydrogen H β emission line in proton aurora. Journal of Geophysical Research, 2001, 106, 23-31.	3.3	55
12	Localized ionization patches in the nighttime ionosphere of Mars and their electrodynamic consequences. Icarus, 2010, 206, 112-119.	1.1	54
13	Energy distribution of precipitating electrons estimated from optical and cosmic noise absorption measurements. Annales Geophysicae, 2004, 22, 1613-1622.	0.6	35
14	Initial comparison of POLAR UVI and Sondrestrom IS radar estimates for auroral electron energy flux. Geophysical Research Letters, 1997, 24, 999-1002.	1.5	27
15	Proton transport model in the ionosphere. 2. Influence of magnetic mirroring and collisions on the angular redistribution in a proton beam. Annales Geophysicae, 1998, 16, 1308-1321.	0.6	27
16	Proton impact ionization and a fast calculation method. Journal of Geophysical Research: Space Physics, 2013, 118, 5369-5378.	0.8	27
17	The application of spectroscopic studies of the aurora to thermospheric neutral composition. Planetary and Space Science, 1990, 38, 67-78.	0.9	25
18	Energy flux and characteristic energy of an elemental auroral structure. Geophysical Research Letters, 1994, 21, 2789-2792.	1.5	24

#	ARTICLE	IF	CITATIONS
19	Precipitation and total power consumption in the ionosphere: Global MHD simulation results compared with Polar and SNOE observations. <i>Annales Geophysicae</i> , 2006, 24, 861-872.	0.6	24
20	The arics auroral modelling campaign: characterization and modelling of an evening auroral arc observed from a rocket and a ground-based line of meridian scanners. <i>Planetary and Space Science</i> , 1991, 39, 1677-1705.	0.9	23
21	On wind-driven electrojets at magnetic cusps in the nightside ionosphere of Mars. <i>Earth, Planets and Space</i> , 2012, 64, 93-103.	0.9	23
22	Observations of the UARS Particle Environment Monitor and computation of ionization rates in the middle and upper atmosphere during a geomagnetic storm. <i>Geophysical Research Letters</i> , 1993, 20, 1319-1322.	1.5	17
23	Modelling of N ₂ ⁺ IP emission rates in aurora using various cross sections for excitation. <i>Annales Geophysicae</i> , 2009, 27, 2545-2553.	0.6	15
24	Electrodynamics of an omega-band as deduced from optical and magnetometer data. <i>Annales Geophysicae</i> , 2009, 27, 3367-3385.	0.6	15
25	Electron transport and energy degradation in the ionosphere: evaluation of the numerical solution, comparison with laboratory experiments and auroral observations. <i>Annales Geophysicae</i> , 1994, 12, 1039.	0.6	14
26	Atmosphere-magnetosphere-ionosphere system mami. <i>Space Science Reviews</i> , 1995, 71, 691-703.	3.7	13
27	The significance of resonant scatter in the measurement of N ₂ ⁺ first negative 0 ⁺ 1 emissions during auroral activity. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001, 63, 295-308.	0.6	11
28	Nightside flow enhancement associated with solar wind dynamic pressure driven reconnection. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	11
29	High resolution measurements and modeling of auroral hydrogen emission line profiles. <i>Annales Geophysicae</i> , 2003, 21, 1629-1643.	0.6	11
30	Rotational temperature of N ₂ ⁺ (0,2) ions from spectrographic measurements used to infer the energy of precipitation in different auroral forms and compared with radar measurements. <i>Annales Geophysicae</i> , 2008, 26, 853-866.	0.6	10
31	Determination of field-aligned currents using the Super Dual Auroral Radar Network and the UVI ultraviolet imager. <i>Journal of Geophysical Research</i> , 2001, 106, 18577-18587.	3.3	9
32	First ground-based optical analysis of H ₂ ⁺ Doppler profiles close to local noon in the cusp. <i>Annales Geophysicae</i> , 2006, 24, 2543-2552.	0.6	9
33	The dynamic cusp at low altitudes: a case study utilizing Viking, DMSP-F7, and Sondrestrom incoherent scatter radar observations. <i>Annales Geophysicae</i> , 1994, 12, 1144-1157.	0.6	7
34	Influence of the ionosphere on the altitude of discrete auroral arcs. <i>Annales Geophysicae</i> , 2005, 23, 759-766.	0.6	7
35	Comparison between CNA and energetic electron precipitation: simultaneous observation by Poker Flat Imaging Riometer and NOAA satellite. <i>Annales Geophysicae</i> , 2005, 23, 1555-1563.	0.6	6
36	Observation of O ⁺ (⁴P-⁴D⁰) lines in electron aurora over Svalbard. <i>Annales Geophysicae</i> , 2004, 22, 2805-2817.	0.6	5

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37	Magnetospheric application of high-altitude long-duration balloon technology: Daylight auroral observations. <i>Advances in Space Research</i> , 2008, 42, 1676-1682.	1.2	5
38	Changes in the Magnetic Field Topology and the Dayside/Nightside Reconnection Rates in Response to a Solar Wind Dynamic Pressure Front: A Case Study. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028768.	0.8	5
39	Feasibility of observing dayside aurora using NIR camera onboard high-altitude balloons. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	4
40	Balloons in the Earth's Auroral Scienceâ€”BALBOA's Modern Exploration. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027603.	0.8	2
41	Development of a nearâ€”infrared balloonâ€”borne camera for dayside and sunlit auroral observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4543-4552.	0.8	1
42	Role of ionospheric Pedersen conductance and its gradient in field-aligned currents. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2022, 233-234, 105813.	0.6	1