

Frédéric Pitout

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44
papers

530
citations

14
h-index

20
g-index

45
ext. papers

589
ext. citations

2.4
avg, IF

2.75
L-index

#	Paper	IF	Citations
44	The science case for the EISCAT_3D radar. <i>Progress in Earth and Planetary Science</i> , 2015 , 2,	3.9	42
43	Coordinated Cluster/Double Star observations of dayside reconnection signatures. <i>Annales Geophysicae</i> , 2005 , 23, 2867-2875	2	42
42	Cluster observations of a field aligned current at the dawn flank of a bursty bulk flow. <i>Annales Geophysicae</i> , 2007 , 25, 1405-1415	2	37
41	The plasma sheet and boundary layers under northward IMF: A multi-point and multi-instrument perspective. <i>Advances in Space Research</i> , 2008 , 41, 1619-1629	2.4	35
40	Cluster survey of the mid-altitude cusp: 1. size, location, and dynamics. <i>Annales Geophysicae</i> , 2006 , 24, 3011-3026	2	30
39	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. <i>Annales Geophysicae</i> , 2001 , 19, 1613-1640	2	24
38	ESR and EISCAT observations of the response of the cusp and cleft to IMF orientation changes. <i>Annales Geophysicae</i> , 2000 , 18, 1009-1026	2	23
37	Effect of a northward turning of the interplanetary magnetic field on cusp precipitation as observed by Cluster. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		21
36	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	2	18
35	Temporal evolution of a staircase ion signature observed by Cluster in the mid-altitude polar cusp. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	16
34	Cluster survey of the mid-altitude cusp [Part 2: Large-scale morphology. <i>Annales Geophysicae</i> , 2009 , 27, 1875-1886	2	15
33	TC1 and Cluster observation of an FTE on 4 January 2005: A close conjunction. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	15
32	Electron density in the cusp ionosphere: increase or depletion?. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	15
31	Science data visualization in planetary and heliospheric contexts with 3DView. <i>Planetary and Space Science</i> , 2018 , 150, 111-130	2	15
30	Response of the mid-altitude cusp to rapid rotations of the IMF. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	13
29	Simultaneous high- and low-latitude reconnection: ESR and DMSP observations. <i>Annales Geophysicae</i> , 2002 , 20, 1311-1320	2	13
28	High-latitude ionospheric response to the solar eclipse of 1 August 2008: EISCAT observations and TRANSCAR simulation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013 , 105-106, 336-349	2	12

27	Double cusp encounter by Cluster: double cusp or motion of the cusp?. <i>Annales Geophysicae</i> , 2013 , 31, 713-723	2	11
26	Shape, size, velocity and field-aligned currents of dayside plasma injections: a multi-altitude study. <i>Annales Geophysicae</i> , 2009 , 27, 1251-1266	2	11
25	Ionospheric plasma density structures associated with magnetopause motion: a case study using the Cluster spacecraft and the EISCAT Svalbard Radar. <i>Annales Geophysicae</i> , 2004 , 22, 2369-2379	2	11
24	Statistical Analysis of Solar Events Associated with Storm Sudden Commencements over One Year of Solar Maximum During Cycle 23: Propagation from the Sun to the Earth and Effects. <i>Solar Physics</i> , 2018 , 293, 1	2.6	10
23	Electron structure of the magnetopause boundary layer: Cluster/Double Star observations. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		10
22	Coordinated ground-based, low altitude satellite and Cluster observations on global and local scales during a transient post-noon sector excursion of the magnetospheric cusp. <i>Annales Geophysicae</i> , 2001 , 19, 1367-1398	2	9
21	Observations of the cusp region under northward IMF. <i>Annales Geophysicae</i> , 2001 , 19, 1641-1653	2	9
20	Alfvén: magnetosphere-ionosphere connection explorers. <i>Experimental Astronomy</i> , 2012 , 33, 445-489	1.3	8
19	Asymmetrical response of dayside ion precipitation to a large rotation of the IMF. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 263-273	2.6	7
18	Overlapping ion structures in the mid-altitude cusp under northward IMF: signature of dual lobe reconnection?. <i>Annales Geophysicae</i> , 2012 , 30, 489-501	2	7
17	Two sources of magnetosheath ions observed by Cluster in the mid-altitude polar cusp. <i>Advances in Space Research</i> , 2008 , 41, 1528-1536	2.4	7
16	Dawn-dusk asymmetry in solar wind ion entry and dayside precipitation: Results from large-scale simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1549-1562	2.6	6
15	High-latitude dayside ionosphere response to Pc5 field line resonance. <i>Annales Geophysicae</i> , 2003 , 21, 1509-1520	2	6
14	The auroral red line polarisation: modelling and measurements. <i>Journal of Space Weather and Space Climate</i> , 2015 , 5, A26	2.5	5
13	Cusp observations during a sequence of fast IMF <math>B_z</math> reversals. <i>Annales Geophysicae</i> , 2009 , 27, 2721-2737	2	5
12	HF wave activity in the low and middle-altitude polar cusp. <i>Advances in Space Research</i> , 2009 , 43, 948-956.	4	4
11	Swarm and ESR observations of the ionospheric response to a field-aligned current system in the high-latitude midnight sector. <i>Geophysical Research Letters</i> , 2015 , 42, 4270-4279	4.9	3
10	Polarisation in the auroral red line during coordinated EISCAT Svalbard Radar/optical experiments. <i>Annales Geophysicae</i> , 2011 , 29, 1101-1112	2	3

9	Automated Multi-Dataset Analysis (AMDA): An on-line database and analysis tool for heliospheric and planetary plasma data. <i>Planetary and Space Science</i> , 2021 , 201, 105214	2	3
8	TREPS, a tool for coordinate and time transformations in space physics. <i>Planetary and Space Science</i> , 2018 , 150, 86-90	2	2
7	Coordinated Cluster and Double Star observations of the dayside magnetosheath and magnetopause at different latitudes near noon. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		2
6	The Polar Cusp Seen by Cluster. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029582		2
5	Solar surveillance with CLIMSO: instrumentation, database and on-going developments. <i>Journal of Space Weather and Space Climate</i> , 2020 , 10, 47	2.5	1
4	Thermospheric Neutral Winds Above the Oukaimeden Observatory: Effects of Geomagnetic Activity. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027383	2.6	1
3	Simultaneous Polar and Cluster Observations in the Northern and Southern Middle-Altitude Polar Cusps Around Equinox. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028346	2.6	1
2	Large-Scale Simulations of Solar Wind Ion Entry and Dayside Precipitation. <i>Geophysical Monograph Series</i> , 2017 , 41-48	1.1	
1	Cluster observations of high-altitude cusp during multiple fast-turning IMF. <i>Science Bulletin</i> , 2010 , 55, 1178-1185		