

# Frédéric Pitout

## List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

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	Automated Multi-Dataset Analysis (AMDA): An on-line database and analysis tool for heliospheric and planetary plasma data. <i>Planetary and Space Science</i> , <b>2021</b> , 201, 105214	2	3
43	The Polar Cusp Seen by Cluster. <i>Journal of Geophysical Research: Space Physics</i> , <b>2021</b> , 126, e2021JA029582	2.6	2
42	Solar surveillance with CLIMSO: instrumentation, database and on-going developments. <i>Journal of Space Weather and Space Climate</i> , <b>2020</b> , 10, 47	2.5	1
41	Thermospheric Neutral Winds Above the Oukaimeden Observatory: Effects of Geomagnetic Activity. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2019JA027383	2.6	1
40	Simultaneous Polar and Cluster Observations in the Northern and Southern Middle-Altitude Polar Cusps Around Equinox. <i>Journal of Geophysical Research: Space Physics</i> , <b>2020</b> , 125, e2020JA028346	2.6	1
39	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> , <b>2018</b> , 293, 1	2.6	10
38	TREPS, a tool for coordinate and time transformations in space physics. <i>Planetary and Space Science</i> , <b>2018</b> , 150, 86-90	2	2
37	Science data visualization in planetary and heliospheric contexts with 3DView. <i>Planetary and Space Science</i> , <b>2018</b> , 150, 111-130	2	15
36	Large-Scale Simulations of Solar Wind Ion Entry and Dayside Precipitation. <i>Geophysical Monograph Series</i> , <b>2017</b> , 41-48	1.1	
35	Asymmetrical response of dayside ion precipitation to a large rotation of the IMF. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 263-273	2.6	7
34	The science case for the EISCAT_3D radar. <i>Progress in Earth and Planetary Science</i> , <b>2015</b> , 2,	3.9	42
33	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> , <b>2015</b> , 42, 4270-4279	4.9	3
32	The auroral red line polarisation: modelling and measurements. <i>Journal of Space Weather and Space Climate</i> , <b>2015</b> , 5, A26	2.5	5
31	Dawn-dusk asymmetry in solar wind ion entry and dayside precipitation: Results from large-scale simulations. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 1549-1562	2.6	6
30	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> , <b>2013</b> , 105-106, 336-349	2	12
29	Double cusp encounter by Cluster: double cusp or motion of the cusp?. <i>Annales Geophysicae</i> , <b>2013</b> , 31, 713-723	2	11
28	Alfvén: magnetosphere-ionosphere connection explorers. <i>Experimental Astronomy</i> , <b>2012</b> , 33, 445-489	1.3	8

27	Overlapping ion structures in the mid-altitude cusp under northward IMF: signature of dual lobe reconnection?. <i>Annales Geophysicae</i> , <b>2012</b> , 30, 489-501	2	7
26	Polarisation in the auroral red line during coordinated EISCAT Svalbard Radar/optical experiments. <i>Annales Geophysicae</i> , <b>2011</b> , 29, 1101-1112	2	3
25	Cluster observations of high-altitude cusp during multiple fast-turning IMF. <i>Science Bulletin</i> , <b>2010</b> , 55, 1178-1185		
24	Cusp observations during a sequence of fast IMF &I&t;B&t;sub&t;Z&t;/sub&t;&t;/I&t; reversals. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 2721-2737	2	5
23	HF wave activity in the low and middle-altitude polar cusp. <i>Advances in Space Research</i> , <b>2009</b> , 43, 948-956.	4	4
22	Shape, size, velocity and field-aligned currents of dayside plasma injections: a multi-altitude study. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 1251-1266	2	11
21	Cluster survey of the mid-altitude cusp [Part 2: Large-scale morphology. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 1875-1886	2	15
20	Coordinated Cluster and Double Star observations of the dayside magnetosheath and magnetopause at different latitudes near noon. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		2
19	Effect of a northward turning of the interplanetary magnetic field on cusp precipitation as observed by Cluster. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		21
18	Electron structure of the magnetopause boundary layer: Cluster/Double Star observations. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		10
17	The plasma sheet and boundary layers under northward IMF: A multi-point and multi-instrument perspective. <i>Advances in Space Research</i> , <b>2008</b> , 41, 1619-1629	2.4	35
16	Two sources of magnetosheath ions observed by Cluster in the mid-altitude polar cusp. <i>Advances in Space Research</i> , <b>2008</b> , 41, 1528-1536	2.4	7
15	TC1 and Cluster observation of an FTE on 4 January 2005: A close conjunction. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	15
14	Cluster observations of a field aligned current at the dawn flank of a bursty bulk flow. <i>Annales Geophysicae</i> , <b>2007</b> , 25, 1405-1415	2	37
13	Response of the mid-altitude cusp to rapid rotations of the IMF. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	13
12	Temporal evolution of a staircase ion signature observed by Cluster in the mid-altitude polar cusp. <i>Geophysical Research Letters</i> , <b>2006</b> , 33,	4.9	16
11	Cluster survey of the mid-altitude cusp: 1. size, location, and dynamics. <i>Annales Geophysicae</i> , <b>2006</b> , 24, 3011-3026	2	30
10	Coordinated Cluster/Double Star observations of dayside reconnection signatures. <i>Annales Geophysicae</i> , <b>2005</b> , 23, 2867-2875	2	42

9	Ionospheric plasma density structures associated with magnetopause motion: a case study using the Cluster spacecraft and the EISCAT Svalbard Radar. <i>Annales Geophysicae</i> , <b>2004</b> , 22, 2369-2379	2	11
8	Electron density in the cusp ionosphere: increase or depletion?. <i>Geophysical Research Letters</i> , <b>2003</b> , 30,	4-9	15
7	High-latitude dayside ionosphere response to Pc5 field line resonance. <i>Annales Geophysicae</i> , <b>2003</b> , 21, 1509-1520	2	6
6	Simultaneous high- and low-latitude reconnection: ESR and DMSP observations. <i>Annales Geophysicae</i> , <b>2002</b> , 20, 1311-1320	2	13
5	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> , <b>2001</b> , 19, 1589-1612	2	18
4	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> , <b>2001</b> , 19, 1613-1640	2	24
3	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> , <b>2001</b> , 19, 1367-1398	2	9
2	Observations of the cusp region under northward IMF. <i>Annales Geophysicae</i> , <b>2001</b> , 19, 1641-1653	2	9
1	ESR and EISCAT observations of the response of the cusp and cleft to IMF orientation changes. <i>Annales Geophysicae</i> , <b>2000</b> , 18, 1009-1026	2	23