FrÃ©dÃ©ric Pitout

List of Publications by Year
in descending order

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44 papers	716 citations	516681 16 h-index	580810 25 g-index
45 all docs	45 docs citations	45 times ranked	880 citing authors

#	Article	IF	Citations
1	Automated Multi-Dataset Analysis (AMDA): An on-line database and analysis tool for heliospheric and planetary plasma data. Planetary and Space Science, 2021, 201, 105214.	1.7	24
2	The Polar Cusp Seen by Cluster. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029582.	2.4	12
3	Ionosphere-thermosphere coupling during the 22â€“23 June 2015 geomagnetic storm: Swarm and FPI coordinated observations above the Oukaimeden observatory. , 2021, , .		0
4	Thermospheric Neutral Winds Above the Oukaimeden Observatory: Effects of Geomagnetic Activity. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027383.	2.4	7
5	Simultaneous Polar and Cluster Observations in the Northern and Southern Middleâ€Altitude Polar Cusps Around Equinox. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028346.	2.4	1
6	Solar surveillance with CLIMSO: instrumentation, database and on-going developments. Journal of Space Weather and Space Climate, 2020, 10, 47.	3.3	1
7	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. Solar Physics, 2018, 293, 1.	2.5	16
8	TREPS, a tool for coordinate and time transformations in space physics. Planetary and Space Science, 2018, 150, 86-90.	1.7	2
9	Science data visualization in planetary and heliospheric contexts with 3DView. Planetary and Space Science, 2018, 150, 111-130.	1.7	18
10	Asymmetrical response of dayside ion precipitation to a large rotation of the IMF. Journal of Geophysical Research: Space Physics, 2016, 121, 263-273.	2.4	8
11	The science case for the EISCAT_3D radar. Progress in Earth and Planetary Science, 2015, 2, .	3.0	60
12	Swarm and ESR observations of the ionospheric response to a fieldâ€aligned current system in the highâ€latitude midnight sector. Geophysical Research Letters, 2015, 42, 4270-4279.	4.0	7
13	The auroral red line polarisation: modelling and measurements. Journal of Space Weather and Space Climate, 2015, 5, A26.	3.3	8
14	Dawnâ€dusk asymmetry in solar wind ion entry and dayside precipitation: Results from largeâ€scale simulations. Journal of Geophysical Research: Space Physics, 2014, 119, 1549-1562.	2.4	7
15	High-latitude ionospheric response to the solar eclipse of 1 August 2008: EISCAT observations and TRANSCAR simulation. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 105-106, 336-349.	1.6	14
16	Double cusp encounter by Cluster: double cusp or motion of the cusp?. Annales Geophysicae, 2013, 31, 713-723.	1.6	13
17	Overlapping ion structures in the mid-altitude cusp under northward IMF: signature of dual lobe reconnection?. Annales Geophysicae, 2012, 30, 489-501.	1.6	8
18	AlfvÃ©n: magnetosphereâ€”ionosphere connection explorers. Experimental Astronomy, 2012, 33, 445-489.	3.7	9

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19	Polarisation in the auroral red line during coordinated EISCAT Svalbard Radar/optical experiments. Annales Geophysicae, 2011, 29, 1101-1112.	1.6	4
20	Cluster observations of high-altitude cusp during multiple fast-turning IMF. Science Bulletin, 2010, 55, 1178-1185.	1.7	0
21	Shape, size, velocity and field-aligned currents of dayside plasma injections: a multi-altitude study. Annales Geophysicae, 2009, 27, 1251-1266.	1.6	14
22	Cluster survey of the mid-altitude cusp â€“ Part 2: Large-scale morphology. Annales Geophysicae, 2009, 27, 1875-1886.	1.6	18
23	Cusp observations during a sequence of fast IMF <I>B_Z</I> reversals. Annales Geophysicae, 2009, 27, 2721-2737.	1.6	6
24	HF wave activity in the low and middle-altitude polar cusp. Advances in Space Research, 2009, 43, 948-956.	2.6	4
25	The plasma sheet and boundary layers under northward IMF: A multi-point and multi-instrument perspective. Advances in Space Research, 2008, 41, 1619-1629.	2.6	42
26	Two sources of magnetosheath ions observed by Cluster in the mid-altitude polar cusp. Advances in Space Research, 2008, 41, 1528-1536.	2.6	10
27	Coordinated Cluster and Double Star observations of the dayside magnetosheath and magnetopause at different latitudes near noon. Journal of Geophysical Research, 2008, 113, .	3.3	3
28	Effect of a northward turning of the interplanetary magnetic field on cusp precipitation as observed by Cluster. Journal of Geophysical Research, 2008, 113, .	3.3	24
29	Electron structure of the magnetopause boundary layer: Cluster/Double Star observations. Journal of Geophysical Research, 2008, 113, .	3.3	12
30	TC1 and Cluster observation of an FTE on 4 January 2005: A close conjunction. Geophysical Research Letters, 2007, 34, .	4.0	16
31	Cluster observations of a field aligned current at the dawn flank of a bursty bulk flow. Annales Geophysicae, 2007, 25, 1405-1415.	1.6	43
32	Response of the midâ€altitude cusp to rapid rotations of the IMF. Geophysical Research Letters, 2006, 33, .	4.0	18
33	Temporal evolution of a staircase ion signature observed by Cluster in the mid-altitude polar cusp. Geophysical Research Letters, 2006, 33, .	4.0	19
34	Cluster survey of the mid-altitude cusp: 1. size, location, and dynamics. Annales Geophysicae, 2006, 24, 3011-3026.	1.6	32
35	Coordinated Cluster/Double Star observations of dayside reconnection signatures. Annales Geophysicae, 2005, 23, 2867-2875.	1.6	47
36	Ionospheric plasma density structures associated with magnetopause motion: a case study using the Cluster spacecraft and the EISCAT Svalbard Radar. Annales Geophysicae, 2004, 22, 2369-2379.	1.6	12

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37	Electron density in the cusp ionosphere: increase or depletion?. Geophysical Research Letters, 2003, 30, .	4.0	20
38	High-latitude dayside ionosphere response to Pc5 field line resonance. Annales Geophysicae, 2003, 21, 1509-1520.	1.6	9
39	Simultaneous high- and low-latitude reconnection: ESR and DMSP observations. Annales Geophysicae, 2002, 20, 1311-1320.	1.6	15
40	Coordinated Cluster, ground-based instrumentation and low-altitude satellite observations of transient poleward-moving events in the ionosphere and in the tail lobe. Annales Geophysicae, 2001, 19, 1589-1612.	1.6	32
41	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.	1.6	30
42	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. Annales Geophysicae, 2001, 19, 1367-1398.	1.6	19
43	Observations of the cusp region under northward IMF. Annales Geophysicae, 2001, 19, 1641-1653.	1.6	14
44	ESR and EISCAT observations of the response of the cusp and cleft to IMF orientation changes. Annales Geophysicae, 2000, 18, 1009-1026.	1.6	38