

# J-A Sauvaud

## List of Publications by Year in descending order

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205  
papers

10,550  
citations

34105

52  
h-index

37204

96  
g-index

206  
all docs

206  
docs citations

206  
times ranked

4521  
citing authors

#	ARTICLE	IF	CITATIONS
1	Fast Plasma Investigation for Magnetospheric Multiscale. <i>Space Science Reviews</i> , 2016, 199, 331-406.	8.1	960
2	Magnetic Field and Plasma Observations at Mars: Initial Results of the Mars Global Surveyor Mission. <i>Science</i> , 1998, 279, 1676-1680.	12.6	670
3	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. <i>Space Science Reviews</i> , 2015, 195, 3-48.	8.1	563
4	Rosina – Rosetta Orbiter Spectrometer for Ion and Neutral Analysis. <i>Space Science Reviews</i> , 2007, 128, 745-801.	8.1	331
5	Martian Atmospheric Erosion Rates. <i>Science</i> , 2007, 315, 501-503.	12.6	248
6	The Analyzer of Space Plasmas and Energetic Atoms (ASPERA-3) for the Mars Express Mission. <i>Space Science Reviews</i> , 2007, 126, 113-164.	8.1	241
7	Local structure of the magnetotail current sheet: 2001 Cluster observations. <i>Annales Geophysicae</i> , 2006, 24, 247-262.	1.6	220
8	The MAVEN Solar Wind Electron Analyzer. <i>Space Science Reviews</i> , 2016, 200, 495-528.	8.1	217
9	The Analyser of Space Plasmas and Energetic Atoms (ASPERA-4) for the Venus Express mission. <i>Planetary and Space Science</i> , 2007, 55, 1772-1792.	1.7	214
10	Solar Wind-Induced Atmospheric Erosion at Mars: First Results from ASPERA-3 on Mars Express. <i>Science</i> , 2004, 305, 1933-1936.	12.6	204
11	Negative ions in the coma of comet Halley. <i>Nature</i> , 1991, 349, 393-396.	27.8	203
12	Location and propagation of the magnetotail current disruption during substorm expansion: Analysis and simulation of an ISEE multi-onset event. <i>Geophysical Research Letters</i> , 1991, 18, 389-392.	4.0	173
13	Electric current and magnetic field geometry in flapping magnetotail current sheets. <i>Annales Geophysicae</i> , 2005, 23, 1391-1403.	1.6	171
14	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015, 350, aad0210.	12.6	166
15	Dynamics of single-particle orbits during substorm expansion phase. <i>Journal of Geophysical Research</i> , 1990, 95, 20853-20865.	3.3	135
16	Venus-like interaction of the solar wind with Mars. <i>Geophysical Research Letters</i> , 1999, 26, 2685-2688.	4.0	114
17	Transient and localized processes in the magnetotail: a review. <i>Annales Geophysicae</i> , 2008, 26, 955-1006.	1.6	112
18	Plasma Acceleration Above Martian Magnetic Anomalies. <i>Science</i> , 2006, 311, 980-983.	12.6	111

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19	Birth of a comet magnetosphere: A spring of water ions. <i>Science</i> , 2015, 347, aaa0571.	12.6	107
20	Statistical study of magnetic cloud erosion by magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 43-60.	2.4	106
21	Carbon dioxide photoelectron energy peaks at Mars. <i>Icarus</i> , 2006, 182, 371-382.	2.5	105
22	Radiation belt electron precipitation due to VLF transmitters: Satellite observations. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	105
23	RPC-ICA: The Ion Composition Analyzer of the Rosetta Plasma Consortium. <i>Space Science Reviews</i> , 2007, 128, 671-695.	8.1	104
24	Mass composition of the escaping plasma at Mars. <i>Icarus</i> , 2006, 182, 320-328.	2.5	103
25	Mars Express and Venus Express multi-point observations of geoeffective solar flare events in December 2006. <i>Planetary and Space Science</i> , 2008, 56, 873-880.	1.7	102
26	Tailward propagating cross-tail current disruption and dynamics of near-Earth Tail: A multi-point measurement analysis. <i>Geophysical Research Letters</i> , 1993, 20, 983-986.	4.0	99
27	A Multispacecraft Analysis of a Small-Scale Transient Entrained by Solar Wind Streams. <i>Solar Physics</i> , 2009, 256, 307-326.	2.5	93
28	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015, 350, aad0459.	12.6	90
29	THE SOLAR ORIGIN OF SMALL INTERPLANETARY TRANSIENTS. <i>Astrophysical Journal</i> , 2011, 734, 7.	4.5	89
30	Multi-spacecraft observation of plasma dipolarization/injection in the inner magnetosphere. <i>Annales Geophysicae</i> , 2007, 25, 801-814.	1.6	88
31	Evidence for Chain Molecules Enriched in Carbon, Hydrogen, and Oxygen in Comet Halley. <i>Science</i> , 1987, 237, 626-628.	12.6	84
32	Dynamics of thin current sheets: Cluster observations. <i>Annales Geophysicae</i> , 2007, 25, 1365-1389.	1.6	83
33	Structure of the martian wake. <i>Icarus</i> , 2006, 182, 329-336.	2.5	81
34	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. <i>Geophysical Research Letters</i> , 2016, 43, 3042-3050.	4.0	81
35	Comet Halley's solar wind interaction from electron measurements aboard Giotto. <i>Nature</i> , 1986, 321, 349-352.	27.8	78
36	Statistical studies of geomagnetic storm dependencies on solar and interplanetary events: a review. <i>Planetary and Space Science</i> , 2005, 53, 189-196.	1.7	76

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37	The HIA instrument on board the Tan Ce 1 Double Star near-equatorial spacecraft and its first results. <i>Annales Geophysicae</i> , 2005, 23, 2757-2774.	1.6	76
38	Radiation belt electron precipitation by man-made VLF transmissions. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	73
39	The INTERBALL-Tail ELECTRON experiment: initial results on the low-latitude boundary layer of the dawn magnetosphere. <i>Annales Geophysicae</i> , 1997, 15, 587-595.	1.6	72
40	Multispacecraft Observations of Magnetic Clouds and Their Solar Origins between 19 and 23 May 2007. <i>Solar Physics</i> , 2009, 254, 325-344.	2.5	68
41	Location of the bow shock and ion composition boundaries at Venus's initial determinations from Venus Express ASPERA-4. <i>Planetary and Space Science</i> , 2008, 56, 780-784.	1.7	64
42	On the altitude dependence of transversely heated O <sup>+</sup> distributions in the cusp/cleft. <i>Annales Geophysicae</i> , 2004, 22, 1787-1798.	1.6	62
43	Mass spectra of heavy ions near comet Halley. <i>Nature</i> , 1986, 321, 335-336.	27.8	61
44	Numerical interpretation of high-altitude photoelectron observations. <i>Icarus</i> , 2006, 182, 383-395.	2.5	56
45	Seasonal variation of Martian pick-up ions: Evidence of breathing exosphere. <i>Planetary and Space Science</i> , 2015, 119, 54-61.	1.7	56
46	Characteristics of high altitude oxygen ion energization and outflow as observed by Cluster: a statistical study. <i>Annales Geophysicae</i> , 2006, 24, 1099-1112.	1.6	55
47	Electric fields within the martian magnetosphere and ion extraction: ASPERA-3 observations. <i>Icarus</i> , 2006, 182, 337-342.	2.5	54
48	Electron oscillations in the induced martian magnetosphere. <i>Icarus</i> , 2006, 182, 360-370.	2.5	54
49	Gross deformation of the dayside magnetopause. <i>Geophysical Research Letters</i> , 1998, 25, 453-456.	4.0	53
50	Sporadic plasma sheet ion injections into the high-altitude auroral bulge: Satellite observations. <i>Journal of Geophysical Research</i> , 1999, 104, 28565-28586.	3.3	53
51	Coordinated Wind, Interball/tail, and ground observations of Kelvin-Helmholtz waves at the near-tail, equatorial magnetopause at dusk: January 11, 1997. <i>Journal of Geophysical Research</i> , 2000, 105, 7639-7667.	3.3	53
52	First ENA observations at Mars: ENA emissions from the martian upper atmosphere. <i>Icarus</i> , 2006, 182, 424-430.	2.5	53
53	Probable detection of organic-dust-borne aromatic C <sub>3</sub> H <sub>3</sub> <sup>+</sup> ions in the coma of comet Halley. <i>Nature</i> , 1989, 337, 53-55.	27.8	51
54	Evidence for impulsive solar wind plasma penetration through the dayside magnetopause. <i>Annales Geophysicae</i> , 2003, 21, 457-472.	1.6	51

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55	A statistical analysis of properties of small transients in the solar wind 2007â€“2009: STEREO and Wind observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 689-708.	2.4	51
56	Electron dynamics in a subprotonâ€“gyroscale magnetic hole. <i>Geophysical Research Letters</i> , 2016, 43, 4112-4118.	4.0	49
57	Ionospheric plasma acceleration at Mars: ASPERA-3 results. <i>Icarus</i> , 2006, 182, 308-319.	2.5	48
58	Ionospheric photoelectrons at Venus: Initial observations by ASPERA-4 ELS. <i>Planetary and Space Science</i> , 2008, 56, 802-806.	1.7	48
59	Inner radiation belt particle acceleration and energy structuring by drift resonance with ULF waves during geomagnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1723-1736.	2.4	48
60	Analysis of suprathermal electron properties at the magnetic pileâ€“up boundary of comet P/Halley. <i>Geophysical Research Letters</i> , 1989, 16, 1035-1038.	4.0	47
61	The ion experiment onboard the Interball-Aurora satellite; initial results on velocity-dispersed structures in the cleft and inside the auroral oval. <i>Annales Geophysicae</i> , 1998, 16, 1056-1069.	1.6	47
62	The exterior cusp and its boundary with the magnetosheath: Cluster multi-event analysis. <i>Annales Geophysicae</i> , 2004, 22, 3039-3054.	1.6	47
63	Ion flow and momentum transfer in the Venus plasma environment. <i>Icarus</i> , 2011, 215, 751-758.	2.5	46
64	First ENA observations at Mars: Subsolar ENA jet. <i>Icarus</i> , 2006, 182, 413-423.	2.5	42
65	Ion multi-nose structures observed by Cluster in the inner Magnetosphere. <i>Annales Geophysicae</i> , 2007, 25, 171-190.	1.6	42
66	TARANISâ€“A Satellite Project Dedicated to the Physics of TLEs and TGFs. <i>Space Science Reviews</i> , 2008, 137, 301-315.	8.1	41
67	Determining the spectra of radiation belt electron losses: Fitting DEMETER electron flux observations for typical and storm times. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7611-7623.	2.4	41
68	Altitude dependence of nightside Martian suprathermal electron depletions as revealed by MAVEN observations. <i>Geophysical Research Letters</i> , 2015, 42, 8877-8884.	4.0	41
69	Testing electric field models using ring current ion energy spectra from the Equator-S ion composition (ESIC) instrument. <i>Annales Geophysicae</i> , 1999, 17, 1611-1621.	1.6	39
70	First ENA observations at Mars: Charge exchange ENAs produced in the magnetosheath. <i>Icarus</i> , 2006, 182, 431-438.	2.5	39
71	Observation of a Complex Solar Wind Reconnection Exhaust from Spacecraft Separated by over 1800 R <sub>E</sub> . <i>Solar Physics</i> , 2009, 256, 379-392.	2.5	39
72	An assessment of the role of the centrifugal acceleration mechanism in high altitude polar cap oxygen ion outflow. <i>Annales Geophysicae</i> , 2008, 26, 145-157.	1.6	38

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73	Electric Mars: The first direct measurement of an upper limit for the Martian "polar wind" electric potential. <i>Geophysical Research Letters</i> , 2015, 42, 9128-9134.	4.0	38
74	Plasma sheet ion injections into the auroral bulge: Correlative study of spacecraft and ground observations. <i>Journal of Geophysical Research</i> , 2000, 105, 18465-18481.	3.3	37
75	Observations of magnetic anomaly signatures in Mars Express ASPERA-3 ELS data. <i>Icarus</i> , 2006, 182, 396-405.	2.5	36
76	Plasma intrusion above Mars crustal fields "Mars Express ASPERA-3 observations. <i>Icarus</i> , 2006, 182, 406-412.	2.5	35
77	Signatures of complex magnetic topologies from multiple reconnection sites induced by Kelvin-Helmholtz instability. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9926-9939.	2.4	35
78	Magnetic Reconnection at a Thin Current Sheet Separating Two Interlaced Flux Tubes at the Earth's Magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1779-1793.	2.4	35
79	Magnetosheath-cusp interface. <i>Annales Geophysicae</i> , 2004, 22, 183-212.	1.6	35
80	Bow shock specularly reflected ions in the presence of low-frequency electromagnetic waves: a case study. <i>Annales Geophysicae</i> , 2004, 22, 2325-2335.	1.6	34
81	Ion escape at Mars: Comparison of a 3-D hybrid simulation with Mars Express IMA/ASPERA-3 measurements. <i>Icarus</i> , 2006, 182, 350-359.	2.5	34
82	Morning sector ion precipitation following substorm injections. <i>Journal of Geophysical Research</i> , 1981, 86, 3430-3438.	3.3	33
83	The structure of high altitude O <sup>+</sup> energization and outflow: a case study. <i>Annales Geophysicae</i> , 2004, 22, 2497-2506.	1.6	33
84	Transition from substorm growth to substorm expansion phase as observed with a radial configuration of ISTP and Cluster spacecraft. <i>Annales Geophysicae</i> , 2005, 23, 2183-2198.	1.6	33
85	Non-adiabatic Ion Acceleration in the Earth Magnetotail and Its Various Manifestations in the Plasma Sheet Boundary Layer. <i>Space Science Reviews</i> , 2011, 164, 133-181.	8.1	33
86	PLASMOID RELEASES IN THE HELIOSPHERIC CURRENT SHEET AND ASSOCIATED CORONAL HOLE BOUNDARY LAYER EVOLUTION. <i>Astrophysical Journal</i> , 2011, 737, 16.	4.5	32
87	Current sheet structure and kinetic properties of plasma flows during a near-Earth magnetic reconnection under the presence of a guide field. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3265-3287.	2.4	29
88	Statistical study of foreshock cavitons. <i>Annales Geophysicae</i> , 2013, 31, 2163-2178.	1.6	29
89	Modeling transverse heating and outflow of ionospheric ions from the dayside cusp/cleft. 2 Applications. <i>Annales Geophysicae</i> , 2003, 21, 1773-1791.	1.6	29
90	Signatures of interchange reconnection: STEREO, ACE and Hinode observations combined. <i>Annales Geophysicae</i> , 2009, 27, 3883-3897.	1.6	29

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91	Giotto measurements of cometary and solar wind plasma at the Comet Halley bow shock. <i>Nature</i> , 1987, 327, 489-492.	27.8	28
92	Two types of ion spectral gaps in the quiet inner magnetosphere: Interball-2 observations and modeling. <i>Annales Geophysicae</i> , 2002, 20, 349-364.	1.6	28
93	The Apparent Layered Structure of the Heliospheric Current Sheet: Multi-Spacecraft Observations. <i>Solar Physics</i> , 2009, 259, 389-416.	2.5	28
94	The Martian Photoelectron Boundary as Seen by MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,472.	2.4	28
95	Comparative study of the Martian suprathermal electron depletions based on Mars Global Surveyor, Mars Express, and Mars Atmosphere and Volatile Evolution mission observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 857-873.	2.4	28
96	Survey of energetic $O^{+}$ ions near the dayside mid-latitude magnetopause with Cluster. <i>Annales Geophysicae</i> , 2005, 23, 1281-1294.	1.6	27
97	First ENA observations at Mars: Solar-wind ENAs on the nightside. <i>Icarus</i> , 2006, 182, 439-447.	2.5	27
98	A multi-satellite study of accelerated ionospheric ion beams above the polar cap. <i>Annales Geophysicae</i> , 2006, 24, 1665-1684.	1.6	27
99	Energetic Charged Particles Above Thunderclouds. <i>Surveys in Geophysics</i> , 2013, 34, 1-41.	4.6	26
100	Testing linear theory of EMIC waves in the inner magnetosphere: Cluster observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1004-1027.	2.4	26
101	Bifurcated current sheet: model and Cluster observations. <i>Planetary and Space Science</i> , 2005, 53, 229-235.	1.7	25
102	Cosmic Ray Albedo Neutron Decay (CRAND) as a Source of Inner Belt Electrons: Energy Spectrum Study. <i>Geophysical Research Letters</i> , 2019, 46, 544-552.	4.0	25
103	Title is missing!. <i>Cosmic Research</i> , 2003, 41, 3-12.	0.6	24
104	Cluster observations of complex 3D magnetic structures at the magnetopause. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	24
105	Statistics of counter-streaming solar wind suprathermal electrons at solar minimum: STEREO observations. <i>Annales Geophysicae</i> , 2010, 28, 233-246.	1.6	24
106	Equator-S observations of He <sup>+</sup> energization by EMIC waves in the dawnside equatorial magnetosphere. <i>Geophysical Research Letters</i> , 2002, 29, 74-1-74-4.	4.0	23
107	Pulsed flows at the high-altitude cusp poleward boundary, and associated ionospheric convection and particle signatures, during a Cluster - FAST - SuperDARN- SAMRESTRAM conjunction under a southwest IMF. <i>Annales Geophysicae</i> , 2004, 22, 2891-2905.	1.6	23
108	Magnetosheath Interaction with the High Latitude Magnetopause. <i>Surveys in Geophysics</i> , 2005, 26, 95-133.	4.6	23

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109	Energetic Neutral Atoms (ENA) at Mars: Properties of the hydrogen atoms produced upstream of the martian bow shock and implications for ENA sounding technique around non-magnetized planets. <i>Icarus</i> , 2006, 182, 448-463.	2.5	22
110	The Venusian induced magnetosphere: A case study of plasma and magnetic field measurements on the Venus Express mission. <i>Planetary and Space Science</i> , 2008, 56, 796-801.	1.7	22
111	Comparison of accelerated ion populations observed upstream of the bow shocks at Venus and Mars. <i>Annales Geophysicae</i> , 2011, 29, 511-528.	1.6	22
112	Cusp and boundary layer observations by INTERBALL. <i>Advances in Space Research</i> , 1997, 20, 823-832.	2.6	21
113	Solar wind plasma protrusion into the martian magnetosphere: ASPERA-3 observations. <i>Icarus</i> , 2006, 182, 343-349.	2.5	21
114	A multisatellite study of the plasma sheet dynamics at substorm onset. <i>Geophysical Research Letters</i> , 1984, 11, 500-503.	4.0	20
115	A study of ion injections at the dawn and dusk polar edges of the auroral oval. <i>Journal of Geophysical Research</i> , 2001, 106, 29619-29631.	3.3	20
116	Cluster observations of whistler waves correlated with ion-scale magnetic structures during the 17 August 2003 substorm event. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6072-6089.	2.4	20
117	A hot flow anomaly at Mars. <i>Geophysical Research Letters</i> , 2015, 42, 9121-9127.	4.0	20
118	On the Ubiquity of Magnetic Reconnection Inside Flux Transfer Event-Like Structures at the Earth's Magnetopause. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086726.	4.0	20
119	Cusp structures: combining multi-spacecraft observations with ground-based observations. <i>Annales Geophysicae</i> , 2003, 21, 2031-2041.	1.6	20
120	Transients in oxygen outflow above the polar cap as observed by the Cluster spacecraft. <i>Annales Geophysicae</i> , 2008, 26, 3365-3373.	1.6	19
121	The Heliospheric Plasma Sheet Observed in situ by Three Spacecraft over Four Solar Rotations. <i>Solar Physics</i> , 2012, 281, 423.	2.5	19
122	Cross-scale: multi-scale coupling in space plasmas. <i>Experimental Astronomy</i> , 2009, 23, 1001-1015.	3.7	18
123	CLUSTER observations of electron outflowing beams carrying downward currents above the polar cap by northward IMF. <i>Annales Geophysicae</i> , 2007, 25, 953-969.	1.6	17
124	Solar-Wind Bulk Velocity Throughout the Inner Heliosphere from Multi-Spacecraft Measurements. <i>Solar Physics</i> , 2010, 264, 377-382.	2.5	17
125	The effects and correction of the geometric factor for the POES/MEPED electron flux instrument using a multisatellite comparison. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6386-6404.	2.4	17
126	Shift of the magnetopause reconnection line to the winter hemisphere under southward IMF conditions: Geotail and MMS observations. <i>Geophysical Research Letters</i> , 2016, 43, 5581-5588.	4.0	17



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127	Precipitation of MeV and Sub-MeV Electrons Due to Combined Effects of EMIC and ULF Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7923-7935.	2.4	17
128	A large-scale flow vortex in the Venus plasma tail and its fluid dynamic interpretation. <i>Geophysical Research Letters</i> , 2013, 40, 1273-1278.	4.0	16
129	Three-dimensional current systems and ionospheric effects associated with small dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3739-3757.	2.4	16
130	Electric Mars: A large trans-terminator electric potential drop on closed magnetic field lines above Utopia Planitia. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2260-2271.	2.4	16
131	Drift boundaries and ULF wave generation near noon at geostationary orbit. <i>Geophysical Research Letters</i> , 1983, 10, 639-642.	4.0	15
132	A statistical study of the dynamics of the equatorward boundary of the diffuse aurora in the pre-midnight sector. <i>Geophysical Research Letters</i> , 1983, 10, 749-752.	4.0	15
133	Large-scale fluctuations of PSBL magnetic flux tubes induced by the field-aligned motion of highly accelerated ions. <i>Annales Geophysicae</i> , 2010, 28, 1273-1288.	1.6	15
134	Ionospheric density perturbations recorded by DEMETER above intense thunderstorms. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5169-5176.	2.4	15
135	Unexpected Very Low Frequency (VLF) Radio Events Recorded by the Ionospheric Satellite DEMETER. <i>Surveys in Geophysics</i> , 2015, 36, 483-511.	4.6	15
136	Energetic Electrons Below the Inner Radiation Belt. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 5421-5440.	2.4	15
137	Multipoint analysis of the spatio-temporal coherence of dayside O <sup>+</sup> outflows with Cluster. <i>Annales Geophysicae</i> , 2004, 22, 2507-2514.	1.6	14
138	The Mercury Electron Analyzers for the Bepi Colombo mission. <i>Advances in Space Research</i> , 2010, 46, 1139-1148.	2.6	14
139	THEMIS observations of the current sheet dynamics in response to the intrusion of the high-velocity plasma flow into the near-Earth magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6553-6568.	2.4	14
140	Signatures of impulsive convection in the magnetospheric lobes. <i>Geophysical Research Letters</i> , 1996, 23, 129-132.	4.0	13
141	Correlated Interball/ground-based observations of isolated substorm: The pseudobreakup phase. <i>Annales Geophysicae</i> , 2001, 19, 687-698.	1.6	13
142	On the problem of Plasma Sheet Boundary Layer identification from plasma moments in Earth's magnetotail. <i>Annales Geophysicae</i> , 2012, 30, 1331-1343.	1.6	12
143	Coupling Between Whistler Waves and Ion-Scale Solitary Waves: Cluster Measurements in the Magnetotail During a Substorm. <i>Physical Review Letters</i> , 2012, 109, 155005.	7.8	12
144	Comment on "Comparative study on earthquake and ground based transmitter induced radiation belt electron precipitation at middle latitude", by Sideropoulos et al. (2011). <i>Natural Hazards and Earth System Sciences</i> , 2014, 14, 1-9.	3.6	12

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145	The Giotto electron plasma experiment. <i>Journal of Physics E: Scientific Instruments</i> , 1987, 20, 721-731.	0.7	11
146	Gyro-phase effects near the storm-time boundary of energetic plasma. <i>Geophysical Research Letters</i> , 1991, 18, 1485-1488.	4.0	11
147	The IMPACT Solar Wind Electron Analyzer (SWEA): Reconstruction of the SWEA Transmission Function by Numerical Simulation and Data Analysis. <i>Space Science Reviews</i> , 2011, 161, 49-62.	8.1	11
148	The heavy ion analyser PICCA for the Comet Halley fly-by with Giotto. <i>Journal of Physics E: Scientific Instruments</i> , 1987, 20, 787-792.	0.7	10
149	Spatial and Temporal Cusp Structures Observed by Multiple Spacecraft and Ground Based Observations. <i>Surveys in Geophysics</i> , 2005, 26, 281-305.	4.6	10
150	Advanced method to derive the IMF direction near Mars from cycloidal proton distributions. <i>Planetary and Space Science</i> , 2008, 56, 1145-1154.	1.7	10
151	Solar wind control of the terrestrial magnetotail as seen by STEREO. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6342-6355.	2.4	10
152	TARANIS XGRE and IDEE detection capability of terrestrial gamma-ray flashes and associated electron beams. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2017, 6, 239-256.	1.6	10
153	Magnetic Reconnection Inside a Flux Transfer Event-Like Structure in Magnetopause Kelvin-Helmholtz Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027527.	2.4	10
154	Observation of energy-time dispersed ion structures in the magnetosheath by CLUSTER: possible signatures of transient acceleration processes at shock. <i>Annales Geophysicae</i> , 2003, 21, 1483-1495.	1.6	10
155	On the origin of sporadic keV ion injections observed by Interball-Auroral during the expansion phase of a substorm. <i>Journal of Geophysical Research</i> , 1999, 104, 24929-24937.	3.3	9
156	Accelerated particles from turbulent boundary layer. <i>Advances in Space Research</i> , 2002, 30, 1723-1730.	2.6	9
157	On the Temporal Variability of the "Strahl" and Its Relationship with Solar Wind Characteristics: STEREO SWEA Observations. <i>Solar Physics</i> , 2009, 259, 311-321.	2.5	9
158	Oxygen foreshock of Mars. <i>Planetary and Space Science</i> , 2015, 119, 48-53.	1.7	9
159	Large Scale Dynamics of the Magnetospheric Tail Induced by Substorms: A Multisatellite Study. <i>Journal of Geomagnetism and Geoelectricity</i> , 1996, 48, 675-686.	0.9	7
160	Plasma sheet fast flows and auroral dynamics during substorm: a case study. <i>Annales Geophysicae</i> , 2002, 20, 341-347.	1.6	7
161	Ninety degrees pitch angle enhancements of suprathermal electrons associated with interplanetary shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7038-7060.	2.4	7
162	Four Spacecraft Measurements of the Shape and Dimensionality of Magnetic Structures in the Near-Earth Plasma Environment. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6850-6868.	2.4	7

#	ARTICLE	IF	CITATIONS
163	Latitudinal Dependence of the Kelvinâ€Helmholtz Instability and Beta Dependence of Vortexâ€Induced Highâ€Guide Field Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027333.	2.4	7
164	INTERBALL-Auroral observations of 0.1-12â€keV ion gaps in the diffuse auroral zone. <i>Annales Geophysicae</i> , 1999, 17, 734.	1.6	7
165	Two-point measurement of hot plasma structures in the magnetotail lobes. <i>Advances in Space Research</i> , 1997, 20, 993-997.	2.6	6
166	Density profile in the magnetosheath adjacent to the magnetopause. <i>Advances in Space Research</i> , 2002, 30, 1693-1703.	2.6	6
167	On the origin of the high-latitude boundary layer. <i>Advances in Space Research</i> , 2002, 30, 2763-2770.	2.6	6
168	Fine structure of the polar cusp as deduced from the plasma wave and plasma measurements. <i>Advances in Space Research</i> , 2003, 32, 315-321.	2.6	6
169	Magnetospheric plasma boundaries: a test of the frozen-in magnetic field theorem. <i>Annales Geophysicae</i> , 2005, 23, 2565-2578.	1.6	6
170	Ion acceleration by multiple reflections at Martian bow shock. <i>Earth, Planets and Space</i> , 2012, 64, 61-71.	2.5	6
171	Solar windâ€driven plasma fluxes from the Venus ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 7497-7506.	2.4	6
172	Centrifugal trapping in the magnetotail. <i>Annales Geophysicae</i> , 1995, 13, 242-246.	1.6	5
173	Conjugate observation of sharp dynamical boundary in the inner magnetosphere by Cluster and DMSP spacecraft and ground network. <i>Annales Geophysicae</i> , 2008, 26, 2771-2780.	1.6	5
174	Temporal Evolution of the Solar-Wind Electron Core Density at Solar Minimum by Correlating SWEA Measurements from STEREO A and B. <i>Solar Physics</i> , 2010, 266, 369-377.	2.5	5
175	A statistical study over Europe of the relative locations of lightning and associated energetic burst of electrons from the radiation belt. <i>Annales Geophysicae</i> , 2016, 34, 157-164.	1.6	5
176	The Dayâ€Night Difference and Geomagnetic Activity Variation of Energetic Electron Fluxes in Region of South Atlantic Anomaly. <i>Space Weather</i> , 2020, 18, e2020SW002479.	3.7	5
177	Scientific objectives of the DYNAMO mission. <i>Advances in Space Research</i> , 2001, 27, 1851-1860.	2.6	4
178	Coupling of transient plasma structures observed in the plasma sheet boundary layer and in the auroral region. <i>Advances in Space Research</i> , 2003, 31, 1271-1276.	2.6	4
179	Spatial structure of beamlets according to Cluster observations. <i>Planetary and Space Science</i> , 2005, 53, 245-254.	1.7	4
180	Energetic particle injections into the outer cusp during compression events. <i>Earth, Planets and Space</i> , 2005, 57, 125-130.	2.5	4

#	ARTICLE	IF	CITATIONS
181	Solar wind-driven thermospheric winds over the Venus North Polar region. <i>Geophysical Research Letters</i> , 2014, 41, 4413-4419.	4.0	4
182	Long-Term Variations of Quasi-Trapped and Trapped Electrons in the Inner Radiation Belt Observed by DEMETER and SAMPEX. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028086.	2.4	4
183	Auroral signatures of transient processes in the outer magnetosphere. <i>Advances in Space Research</i> , 2002, 30, 2701-2711.	2.6	3
184	DYNAMO: a Mars upper atmosphere package for investigating solar wind interaction and escape processes, and mapping Martian fields. <i>Advances in Space Research</i> , 2004, 33, 2228-2235.	2.6	3
185	A physical 4D radiation belt model including a time dependent magnetic field. <i>Advances in Space Research</i> , 2000, 25, 2303-2306.	2.6	2
186	Low-Altitude Observations of Recurrent Short-Lived keV Ion Microinjections Inside the Diffuse Auroral Zone. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2054-2063.	2.4	2
187	Magnetopause boundary structure deduced from the high-time resolution particle experiment on the Equator-S spacecraft. <i>Annales Geophysicae</i> , 1999, 17, 1574-1581.	1.6	1
188	Plasma characteristics of high-altitude cusp for steady southward-dawnward IMF. <i>Advances in Space Research</i> , 2000, 25, 1435-1444.	2.6	1
189	Interconnection of high-latitude and low-latitude boundary layers when IMF BY is dominant. <i>Advances in Space Research</i> , 2002, 30, 2771-2779.	2.6	1
190	Evidence for storm-time ionospheric ion precipitation in the cusp with magnetosheath energy. <i>Annales Geophysicae</i> , 2004, 22, 1765-1771.	1.6	1
191	Observation of mixed ion populations deep inside earth magnetosphere as evidence for reconnection during northward IMF with substantial By component. <i>Advances in Space Research</i> , 2006, 37, 1394-1401.	2.6	1
192	A case study of dayside reconnection under extremely low solar wind density conditions. <i>Annales Geophysicae</i> , 2008, 26, 3571-3583.	1.6	1
193	Thick escaping magnetospheric ion layer in magnetopause reconnection with MMS observations. <i>Geophysical Research Letters</i> , 2016, 43, 6028-6035.	4.0	1
194	AMBRE: A Compact Instrument to Measure Thermal Ions, Electrons and Electrostatic Charging Onboard Spacecraft. , 2019, , .		1
195	Characterization of Jason-3 Spacecraft Surface Charging in LEO Polar Regions From AMBER Observations. <i>IEEE Transactions on Plasma Science</i> , 2022, 50, 965-975.	1.3	1
196	Multi-spacecraft observations of series of substorms on December 22-23, 1996. <i>Advances in Space Research</i> , 2000, 25, 1697-1701.	2.6	0
197	Mid-latitude reflection of ion upflows during substorm dipolarization. <i>Geophysical Research Letters</i> , 2001, 28, 475-478.	4.0	0
198	&lt;i>Introduction&lt;/i> The Interball project after 6 years of data analysis. <i>Annales Geophysicae</i> , 2002, 20, 289-291.	1.6	0

#	ARTICLE	IF	CITATIONS
199	The electron mixing and acceleration signatures as seen near the cusp and on the flank. <i>Advances in Space Research</i> , 2002, 30, 1731-1740.	2.6	0
200	A low-power timing discriminator for space instrumentation. <i>Review of Scientific Instruments</i> , 2004, 75, 5100-5105.	1.3	0
201	Accelerated electrons in the LLBL as observed by Interball on February 15, 1996. <i>Planetary and Space Science</i> , 2005, 53, 149-156.	1.7	0
202	Formation of the flank LLBL: A case study. <i>European Physical Journal D</i> , 2005, 55, 1293-1301.	0.4	0
203	Imprints of non-adiabatic ion acceleration in the earth's magnetotail: Interball observations and statistical analysis. <i>Advances in Space Research</i> , 2006, 38, 37-46.	2.6	0
204	The magnetic field near Mars: A comparison between a hybrid model, Mars Global Surveyor and Mars Express observations. <i>Planetary and Space Science</i> , 2008, 56, 828-831.	1.7	0
205	Special Topic. <i>Annales Geophysicae</i> , 1997, 15, 511.	1.6	0