

J-A Sauvaud

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203
papers

8,695
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87
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206
ext. papers

9,487
ext. citations

5.5
avg. IF

4.79
L-index

#	Paper	IF	Citations
203	Fast Plasma Investigation for Magnetospheric Multiscale. <i>Space Science Reviews</i> , 2016 , 199, 331-406	7.5	712
202	Magnetic Field and Plasma Observations at Mars: Initial Results of the Mars Global Surveyor Mission. <i>Science</i> , 1998 , 279, 1676-80	33.3	571
201	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. <i>Space Science Reviews</i> , 2015 , 195, 3-48	7.5	405
200	Rosina (Rosetta Orbiter Spectrometer for Ion and Neutral Analysis). <i>Space Science Reviews</i> , 2007 , 128, 745-801	7.5	278
199	Martian atmospheric erosion rates. <i>Science</i> , 2007 , 315, 501-3	33.3	215
198	The Analyzer of Space Plasmas and Energetic Atoms (ASPERA-3) for the Mars Express Mission. <i>Space Science Reviews</i> , 2007 , 126, 113-164	7.5	196
197	Local structure of the magnetotail current sheet: 2001 Cluster observations. <i>Annales Geophysicae</i> , 2006 , 24, 247-262	2	185
196	Negative ions in the coma of comet Halley. <i>Nature</i> , 1991 , 349, 393-396	50.4	183
195	Solar wind-induced atmospheric erosion at Mars: first results from ASPERA-3 on Mars Express. <i>Science</i> , 2004 , 305, 1933-6	33.3	181
194	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	2	175
193	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	4.9	158
192	The MAVEN Solar Wind Electron Analyzer. <i>Space Science Reviews</i> , 2016 , 200, 495-528	7.5	149
191	Electric current and magnetic field geometry in flapping magnetotail current sheets. <i>Annales Geophysicae</i> , 2005 , 23, 1391-1403	2	142
190	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015 , 350, aad0210	33.3	131
189	Dynamics of single-particle orbits during substorm expansion phase. <i>Journal of Geophysical Research</i> , 1990 , 95, 20853		119
188	Venus-like interaction of the solar wind with Mars. <i>Geophysical Research Letters</i> , 1999 , 26, 2685-2688	4.9	102
187	Transient and localized processes in the magnetotail: a review. <i>Annales Geophysicae</i> , 2008 , 26, 955-1006	2	100

186	Plasma acceleration above martian magnetic anomalies. <i>Science</i> , 2006 , 311, 980-3	33.3	100
185	Cometary science. Birth of a comet magnetosphere: a spring of water ions. <i>Science</i> , 2015 , 347, aaa0571	33.3	94
184	Carbon dioxide photoelectron energy peaks at Mars. <i>Icarus</i> , 2006 , 182, 371-382	3.8	94
183	RPC-ICA: The Ion Composition Analyzer of the Rosetta Plasma Consortium. <i>Space Science Reviews</i> , 2007 , 128, 671-695	7.5	93
182	Mass composition of the escaping plasma at Mars. <i>Icarus</i> , 2006 , 182, 320-328	3.8	89
181	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	2	88
180	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	4.9	87
179	Statistical study of magnetic cloud erosion by magnetic reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 43-60	2.6	84
178	A Multispacecraft Analysis of a Small-Scale Transient Entrained by Solar Wind Streams. <i>Solar Physics</i> , 2009 , 256, 307-326	2.6	83
177	Multi-spacecraft observation of plasma dipolarization/injection in the inner magnetosphere. <i>Annales Geophysicae</i> , 2007 , 25, 801-814	2	82
176	Radiation belt electron precipitation due to VLF transmitters: Satellite observations. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	80
175	Evidence for chain molecules enriched in carbon, hydrogen, and oxygen in comet halley. <i>Science</i> , 1987 , 237, 626-8	33.3	78
174	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015 , 350, aad0459	33.3	77
173	Comet Halley solar wind interaction from electron measurements aboard Giotto. <i>Nature</i> , 1986 , 321, 349-352	50.4	74
172	THE SOLAR ORIGIN OF SMALL INTERPLANETARY TRANSIENTS. <i>Astrophysical Journal</i> , 2011 , 734, 7	4.7	72
171	Dynamics of thin current sheets: Cluster observations. <i>Annales Geophysicae</i> , 2007 , 25, 1365-1389	2	72
170	Structure of the martian wake. <i>Icarus</i> , 2006 , 182, 329-336	3.8	71
169	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. <i>Geophysical Research Letters</i> , 2016 , 43, 3042-3050	4.9	65

168	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	2	64
167	Statistical studies of geomagnetic storm dependencies on solar and interplanetary events: a review. <i>Planetary and Space Science</i> , 2005 , 53, 189-196	2	63
166	Multispacecraft Observations of Magnetic Clouds and Their Solar Origins between 19 and 23 May 2007. <i>Solar Physics</i> , 2009 , 254, 325-344	2.6	62
165	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	2	62
164	Radiation belt electron precipitation by man-made VLF transmissions. <i>Journal of Geophysical Research</i> , 2008 , 113,		52
163	Location of the bow shock and ion composition boundaries at Venus: initial determinations from Venus Express ASPERA-4. <i>Planetary and Space Science</i> , 2008 , 56, 780-784	2	52
162	Mass spectra of heavy ions near comet Halley. <i>Nature</i> , 1986 , 321, 335-336	50.4	51
161	Numerical interpretation of high-altitude photoelectron observations. <i>Icarus</i> , 2006 , 182, 383-395	3.8	50
160	Gross deformation of the dayside magnetopause. <i>Geophysical Research Letters</i> , 1998 , 25, 453-456	4.9	49
159	Electron oscillations in the induced martian magnetosphere. <i>Icarus</i> , 2006 , 182, 360-370	3.8	48
158	Sporadic plasma sheet ion injections into the high-altitude auroral bulge: Satellite observations. <i>Journal of Geophysical Research</i> , 1999 , 104, 28565-28586		47
157	Probable detection of organic-dust-borne aromatic C ₃ H ₃ ⁺ ions in the coma of comet Halley. <i>Nature</i> , 1989 , 337, 53-55	50.4	47
156	First ENA observations at Mars: ENA emissions from the martian upper atmosphere. <i>Icarus</i> , 2006 , 182, 424-430	3.8	46
155	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		46
154	Ionospheric plasma acceleration at Mars: ASPERA-3 results. <i>Icarus</i> , 2006 , 182, 308-319	3.8	45
153	Evidence for impulsive solar wind plasma penetration through the dayside magnetopause. <i>Annales Geophysicae</i> , 2003 , 21, 457-472	2	45
152	On the altitude dependence of transversely heated O ⁺ distributions in the cusp/cleft. <i>Annales Geophysicae</i> , 2004 , 22, 1787-1798	2	45
151	Characteristics of high altitude oxygen ion energization and outflow as observed by Cluster: a statistical study. <i>Annales Geophysicae</i> , 2006 , 24, 1099-1112	2	45

150	Seasonal variation of Martian pick-up ions: Evidence of breathing exosphere. <i>Planetary and Space Science</i> , 2015 , 119, 54-61	2	44
149	Ionospheric photoelectrons at Venus: Initial observations by ASPERA-4 ELS. <i>Planetary and Space Science</i> , 2008 , 56, 802-806	2	44
148	Electron dynamics in a subproton-gyroscale magnetic hole. <i>Geophysical Research Letters</i> , 2016 , 43, 4112-4118	4.1	44
147	Electric fields within the martian magnetosphere and ion extraction: ASPERA-3 observations. <i>Icarus</i> , 2006 , 182, 337-342	3.8	43
146	A statistical analysis of properties of small transients in the solar wind 2007-2009: STEREO and Wind observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 689-708	2.6	40
145	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	2.6	39
144	Ion multi-nose structures observed by Cluster in the inner Magnetosphere. <i>Annales Geophysicae</i> , 2007 , 25, 171-190	2	39
143	The exterior cusp and its boundary with the magnetosheath: Cluster multi-event analysis. <i>Annales Geophysicae</i> , 2004 , 22, 3039-3054	2	38
142	First ENA observations at Mars: Subsolar ENA jet. <i>Icarus</i> , 2006 , 182, 413-423	3.8	37
141	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	2	36
140	Analysis of suprathermal electron properties at the magnetic pile-up boundary of comet P/Halley. <i>Geophysical Research Letters</i> , 1989 , 16, 1035-1038	4.9	36
139	Altitude dependence of nightside Martian suprathermal electron depletions as revealed by MAVEN observations. <i>Geophysical Research Letters</i> , 2015 , 42, 8877-8884	4.9	35
138	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	2	35
137	TARANIS Satellite Project Dedicated to the Physics of TLEs and TGFs. <i>Space Science Reviews</i> , 2008 , 137, 301-315	7.5	34
136	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	2	33
135	First ENA observations at Mars: Charge exchange ENAs produced in the magnetosheath. <i>Icarus</i> , 2006 , 182, 431-438	3.8	33
134	Observations of magnetic anomaly signatures in Mars Express ASPERA-3 ELS data. <i>Icarus</i> , 2006 , 182, 396-405	3.8	32
133	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	7.5	31

132	Plasma intrusion above Mars crustal fields Mars Express ASPERA-3 observations. <i>Icarus</i> , 2006 , 182, 406-412	3.8	31
131	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	2.6	30
130	Observation of a Complex Solar Wind Reconnection Exhaust from Spacecraft Separated by over 1800 R E. <i>Solar Physics</i> , 2009 , 256, 379-392	2.6	30
129	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		30
128	Ion flow and momentum transfer in the Venus plasma environment. <i>Icarus</i> , 2011 , 215, 751-758	3.8	29
127	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	3.8	29
126	Bow shock specularly reflected ions in the presence of low-frequency electromagnetic waves: a case study. <i>Annales Geophysicae</i> , 2004 , 22, 2325-2335	2	29
125	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	4.9	28
124	The Apparent Layered Structure of the Heliospheric Current Sheet: Multi-Spacecraft Observations. <i>Solar Physics</i> , 2009 , 259, 389-416	2.6	28
123	Morning sector ion precipitation following substorm injections. <i>Journal of Geophysical Research</i> , 1981 , 86, 3430		27
122	PLASMOID RELEASES IN THE HELIOSPHERIC CURRENT SHEET AND ASSOCIATED CORONAL HOLE BOUNDARY LAYER EVOLUTION. <i>Astrophysical Journal</i> , 2011 , 737, 16	4.7	26
121	Signatures of interchange reconnection: STEREO, ACE and Hinode observations combined. <i>Annales Geophysicae</i> , 2009 , 27, 3883-3897	2	26
120	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	2.6	25
119	Survey of energetic O^{+} ions near the dayside mid-latitude magnetopause with Cluster. <i>Annales Geophysicae</i> , 2005 , 23, 1281-1294	2	25
118	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	2.6	24
117	Statistical study of foreshock cavitons. <i>Annales Geophysicae</i> , 2013 , 31, 2163-2178	2	24
116	The structure of high altitude O^{+} energization and outflow: a case study. <i>Annales Geophysicae</i> , 2004 , 22, 2497-2506	2	24
115	Bifurcated current sheet: model and Cluster observations. <i>Planetary and Space Science</i> , 2005 , 53, 229-235		24

114	Giotto measurements of cometary and solar wind plasma at the Comet Halley bow shock. <i>Nature</i> , 1987 , 327, 489-492	50.4	24
113	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	2.6	23
112	Energetic Charged Particles Above Thunderclouds. <i>Surveys in Geophysics</i> , 2013 , 34, 1-41	7.6	23
111	Two types of ion spectral gaps in the quiet inner magnetosphere: Interball-2 observations and modeling. <i>Annales Geophysicae</i> , 2002 , 20, 349-364	2	23
110	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	2.6	22
109	Statistics of counter-streaming solar wind suprathermal electrons at solar minimum: STEREO observations. <i>Annales Geophysicae</i> , 2010 , 28, 233-246	2	22
108	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	2	22
107	First ENA observations at Mars: Solar-wind ENAs on the nightside. <i>Icarus</i> , 2006 , 182, 439-447	3.8	22
106	Cluster observations of complex 3D magnetic structures at the magnetopause. <i>Geophysical Research Letters</i> , 2004 , 31,	4.9	22
105	The Martian Photoelectron Boundary as Seen by MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,472-10,485	2.6	21
104	Equator-S observations of He+ energization by EMIC waves in the dawnside equatorial magnetosphere. <i>Geophysical Research Letters</i> , 2002 , 29, 74-1-74-4	4.9	21
103	Magnetosheath-cusp interface. <i>Annales Geophysicae</i> , 2004 , 22, 183-212	2	21
102	Testing linear theory of EMIC waves in the inner magnetosphere: Cluster observations. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1004-1027	2.6	20
101	Solar wind plasma protrusion into the martian magnetosphere: ASPERA-3 observations. <i>Icarus</i> , 2006 , 182, 343-349	3.8	20
100	Magnetosheath Interaction with the High Latitude Magnetopause. <i>Surveys in Geophysics</i> , 2005 , 26, 95-133	3.6	20
99	A multi-satellite study of accelerated ionospheric ion beams above the polar cap. <i>Annales Geophysicae</i> , 2006 , 24, 1665-1684	2	20
98	Comparison of accelerated ion populations observed upstream of the bow shocks at Venus and Mars. <i>Annales Geophysicae</i> , 2011 , 29, 511-528	2	19
97	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	3.8	19

96	Stationary Nose Structures of Protons in the Inner Magnetosphere: Observations by the ION Instrument onboard the Interball-2 Satellite and Modeling. <i>Cosmic Research</i> , 2003 , 41, 3-12	0.6	19
95	Cusp structures: combining multi-spacecraft observations with ground-based observations. <i>Annales Geophysicae</i> , 2003 , 21, 2031-2041	2	19
94	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	2.6	18
93	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	2	18
92	A multisatellite study of the plasma sheet dynamics at substorm onset. <i>Geophysical Research Letters</i> , 1984 , 11, 500-503	4.9	18
91	The Heliospheric Plasma Sheet Observed in situ by Three Spacecraft over Four Solar Rotations. <i>Solar Physics</i> , 2012 , 281, 423	2.6	17
90	Cusp and boundary layer observations by INTERBALL. <i>Advances in Space Research</i> , 1997 , 20, 823-832	2.4	17
89	Transients in oxygen outflow above the polar cap as observed by the Cluster spacecraft. <i>Annales Geophysicae</i> , 2008 , 26, 3365-3373	2	17
88	Modeling transverse heating and outflow of ionospheric ions from the dayside cusp/cleft. 2 Applications. <i>Annales Geophysicae</i> , 2003 , 21, 1773-1791	2	17
87	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	2.6	15
86	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	2	15
85	Solar-Wind Bulk Velocity Throughout the Inner Heliosphere from Multi-Spacecraft Measurements. <i>Solar Physics</i> , 2010 , 264, 377-382	2.6	15
84	Unexpected Very Low Frequency (VLF) Radio Events Recorded by the Ionospheric Satellite DEMETER. <i>Surveys in Geophysics</i> , 2015 , 36, 483-511	7.6	14
83	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	4.9	14
82	Ionospheric density perturbations recorded by DEMETER above intense thunderstorms. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5169-5176	2.6	14
81	A hot flow anomaly at Mars. <i>Geophysical Research Letters</i> , 2015 , 42, 9121-9127	4.9	14
80	Cross-scale: multi-scale coupling in space plasmas. <i>Experimental Astronomy</i> , 2009 , 23, 1001-1015	1.3	14
79	CLUSTER observations of electron outflowing beams carrying downward currents above the polar cap by northward IMF. <i>Annales Geophysicae</i> , 2007 , 25, 953-969	2	14

78	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		14
77	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	4.9	14
76	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	4.9	14
75	Pulsed flows at the high-altitude cusp poleward boundary, and associated ionospheric convection and particle signatures, during a Cluster - FAST - SuperDARN- SØdrestreñ conjunction under a southwest IMF. <i>Annales Geophysicae</i> , 2004 , 22, 2891-2905	2	13
74	Drift boundaries and ULF wave generation near noon at geostationary orbit. <i>Geophysical Research Letters</i> , 1983 , 10, 639-642	4.9	13
73	Correlated Interball/ground-based observations of isolated substorm: The pseudobreakup phase. <i>Annales Geophysicae</i> , 2001 , 19, 687-698	2	13
72	Three-dimensional current systems and ionospheric effects associated with small dipolarization fronts. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 3739-3757	2.6	12
71	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	7.4	12
70	Multipoint analysis of the spatio-temporal coherence of dayside O⁺ outflows with Cluster. <i>Annales Geophysicae</i> , 2004 , 22, 2507-2514	2	12
69	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	2.6	11
68	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	2.6	11
67	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	3.9	11
66	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	7.5	11
65	On the problem of Plasma Sheet Boundary Layer identification from plasma moments in Earth's magnetotail. <i>Annales Geophysicae</i> , 2012 , 30, 1331-1343	2	11
64	A large-scale flow vortex in the Venus plasma tail and its fluid dynamic interpretation. <i>Geophysical Research Letters</i> , 2013 , 40, 1273-1278	4.9	10
63	The Mercury Electron Analyzers for the Bepi Colombo mission. <i>Advances in Space Research</i> , 2010 , 46, 1139-1148	2.4	10
62	Advanced method to derive the IMF direction near Mars from cycloidal proton distributions. <i>Planetary and Space Science</i> , 2008 , 56, 1145-1154	2	10
61	The Giotto electron plasma experiment. <i>Journal of Physics E: Scientific Instruments</i> , 1987 , 20, 721-731		10

60	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	4.9	9
59	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	2.6	9
58	Accelerated particles from turbulent boundary layer. <i>Advances in Space Research</i> , 2002 , 30, 1723-1730	2.4	9
57	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		9
56	Signatures of impulsive convection in the magnetospheric lobes. <i>Geophysical Research Letters</i> , 1996 , 23, 129-132	4.9	9
55	Energetic Electrons Below the Inner Radiation Belt. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5421-5440	2.6	8
54	Solar wind control of the terrestrial magnetotail as seen by STEREO. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6342-6355	2.6	8
53	On the Temporal Variability of the Btrahl and Its Relationship with Solar Wind Characteristics: STEREO SWEA Observations. <i>Solar Physics</i> , 2009 , 259, 311-321	2.6	8
52	Spatial and Temporal Cusp Structures Observed by Multiple Spacecraft and Ground Based Observations. <i>Surveys in Geophysics</i> , 2005 , 26, 281-305	7.6	8
51	Gyro-phase effects near the storm-time boundary of energetic plasma. <i>Geophysical Research Letters</i> , 1991 , 18, 1485-1488	4.9	8
50	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		8
49	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	1.5	7
48	Oxygen foreshock of Mars. <i>Planetary and Space Science</i> , 2015 , 119, 48-53	2	7
47	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	2	7
46	Ninety degrees pitch angle enhancements of suprathermal electrons associated with interplanetary shocks. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 7038-7060	2.6	6
45	Ion acceleration by multiple reflections at Martian bow shock. <i>Earth, Planets and Space</i> , 2012 , 64, 61-71	2.9	6
44	Two-point measurement of hot plasma structures in the magnetotail lobes. <i>Advances in Space Research</i> , 1997 , 20, 993-997	2.4	6
43	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	2.4	6

42	Large Scale Dynamics of the Magnetospheric Tail Induced by Substorms: A Multisatellite Study. <i>Journal of Geomagnetism and Geoelectricity</i> , 1996 , 48, 675-686		6
41	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	2.6	5
40	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	2.6	5
39	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	2	5
38	Density profile in the magnetosheath adjacent to the magnetopause. <i>Advances in Space Research</i> , 2002 , 30, 1693-1703	2.4	5
37	On the origin of the high-latitude boundary layer. <i>Advances in Space Research</i> , 2002 , 30, 2763-2770	2.4	5
36	Magnetospheric plasma boundaries: a test of the frozen-in magnetic field theorem. <i>Annales Geophysicae</i> , 2005 , 23, 2565-2578	2	5
35	Plasma sheet fast flows and auroral dynamics during substorm: a case study. <i>Annales Geophysicae</i> , 2002 , 20, 341-347	2	5
34	INTERBALL-Auroral observations of 0.1-12 keV ion gaps in the diffuse auroral zone. <i>Annales Geophysicae</i> , 1999 , 17, 734	2	5
33	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	2.6	5
32	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	2	5
31	Latitudinal Dependence of the Kelvin-Helmholtz Instability and Beta Dependence of Vortex-Induced High-Guide Field Magnetic Reconnection. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027333	2.6	4
30	Solar wind-driven thermospheric winds over the Venus North Polar region. <i>Geophysical Research Letters</i> , 2014 , 41, 4413-4419	4.9	4
29	Energetic particle injections into the outer cusp during compression events. <i>Earth, Planets and Space</i> , 2005 , 57, 125-130	2.9	4
28	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	2.4	4
27	Spatial structure of beamlets according to Cluster observations. <i>Planetary and Space Science</i> , 2005 , 53, 245-254	2	4
26	Scientific objectives of the DYNAMO mission. <i>Advances in Space Research</i> , 2001 , 27, 1851-1860	2.4	4
25	Solar wind-driven plasma fluxes from the Venus ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7497-7506	2.6	3

24	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	2.4	3
23	Auroral signatures of transient processes in the outer magnetosphere. <i>Advances in Space Research</i> , 2002 , 30, 2701-2711	2.4	3
22	Centrifugal trapping in the magnetotail. <i>Annales Geophysicae</i> , 1995 , 13, 242-246	2	3
21	The Day-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	2
20	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	2.6	2
19	Special Topic. <i>Annales Geophysicae</i> , 1997 , 15, 511	2	2
18	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	2.6	2
17	AMBRE: A Compact Instrument to Measure Thermal Ions, Electrons and Electrostatic Charging Onboard Spacecraft 2019 ,		1
16	Thick escaping magnetospheric ion layer in magnetopause reconnection with MMS observations. <i>Geophysical Research Letters</i> , 2016 , 43, 6028-6035	4.9	1
15	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	2.4	1
14	Interconnection of high-latitude and low-latitude boundary layers when IMF BY is dominant. <i>Advances in Space Research</i> , 2002 , 30, 2771-2779	2.4	1
13	A physical 4D radiation belt model including a time dependent magnetic field. <i>Advances in Space Research</i> , 2000 , 25, 2303-2306	2.4	1
12	Evidence for storm-time ionospheric ion precipitation in the cusp with magnetosheath energy. <i>Annales Geophysicae</i> , 2004 , 22, 1765-1771	2	0
11	A case study of dayside reconnection under extremely low solar wind density conditions. <i>Annales Geophysicae</i> , 2008 , 26, 3571-3583	2	
10	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	2	
9	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	2.4	
8	A low-power timing discriminator for space instrumentation. <i>Review of Scientific Instruments</i> , 2004 , 75, 5100-5105	1.7	
7	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	2.4	

- 6 Accelerated electrons in the LLBL as observed by Interball on February 15, 1996. *Planetary and Space Science*, **2005**, 53, 149-156 2
- 5 Formation of the flank LLBL: A case study. *European Physical Journal D*, **2005**, 55, 1293-1301
- 4 Plasma characteristics of high-altitude cusp for steady southward-dawnward IMF. *Advances in Space Research*, **2000**, 25, 1435-1444 2.4
- 3 Multi-spacecraft observations of series of substorms on December 22⁰³, 1996. *Advances in Space Research*, **2000**, 25, 1697-1701 2.4
- 2 Mid-latitude reflection of ion upflows during substorm dipolarization. *Geophysical Research Letters*, **2001**, 28, 475-478 4.9
- 1 Characterization of Jason-3 Spacecraft Surface Charging in LEO Polar Regions From AMBER Observations. *IEEE Transactions on Plasma Science*, **2022**, 1-11 1.3