Hans Nilsson

List of Publications by Year
in descending order

195 papers	5,686 citations	66343 42 h-index	123424 61 g-index
227 all docs	227 docs citations	227 times ranked	2538 citing authors

#	Article	IF	Citations
1	RPC: The Rosetta Plasma Consortium. Space Science Reviews, 2007, 128, 629-647.	8.1	135
2	Heavy ion escape from Mars, influence from solar wind conditions and crustal magnetic fields. Icarus, 2011, 215, 475-484.	2.5	114
3	A comparison of global models for the solar wind interaction with Mars. Icarus, 2010, 206, 139-151.	2.5	108
4	Birth of a comet magnetosphere: A spring of water ions. Science, 2015, 347, aaa0571.	12.6	107
5	RPC-ICA: The Ion Composition Analyzer of the Rosetta Plasma Consortium. Space Science Reviews, 2007, 128, 671-695.	8.1	104
6	Mass composition of the escaping plasma at Mars. Icarus, 2006, 182, 320-328.	2.5	103
7	Mars Express and Venus Express multi-point observations of geoeffective solar flare events in December 2006. Planetary and Space Science, 2008, 56, 873-880.	1.7	102
8	First detection of a diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 588, A24.	5.1	95
9	A cometâ€like escape of ionospheric plasma from Mars. Geophysical Research Letters, 2008, 35, .	4.0	94
10	Pumping out the atmosphere of Mars through solar wind pressure pulses. Geophysical Research Letters, 2010, 37, .	4.0	88
11	Interplanetary coronal mass ejection observed at STEREOâ€A, Mars, comet 67P/Churyumovâ€Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9Â AU. Journal of Geophysical Research: Space Physics, 2017, 122, 7865-7890.	2.4	87
12	The Martian atmospheric ion escape rate dependence on solar wind and solar EUV conditions: 1. Seven years of Mars Express observations. Journal of Geophysical Research E: Planets, 2015, 120, 1298-1309.	3.6	84
13	The interaction between the Moon and the solar wind. Earth, Planets and Space, 2012, 64, 237-245.	2.5	80
14	Structure and evolution of the diamagnetic cavity at comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S459-S467.	4.4	79
15	Solar forcing and planetary ion escape from Mars. Geophysical Research Letters, 2008, 35, .	4.0	77
16	Evolution of the ion environment of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A20.	5.1	76
17	Ionospheric plasma of comet 67P probed by<i>Rosetta</i>at 3Âau from the Sun. Monthly Notices of the Royal Astronomical Society, 2016, 462, S331-S351.	4.4	75
18	Spatial distribution of lowâ€energy plasma around comet 67P/CG from Rosetta measurements. Geophysical Research Letters, 2015, 42, 4263-4269.	4.0	74

#	Article	IF	Citations
19	Ion escape from Mars as a function of solar wind conditions: A statistical study. Icarus, 2010, 206, 40-49.	2.5	72
20	High-latitude Sporadic-E and other Thin Layers â€“ the Role of Magnetospheric Electric Fields. Space Science Reviews, 2000, 91, 579-613.	8.1	70
21	Observations of aurorae by SPICAM ultraviolet spectrograph on board Mars Express: Simultaneous ASPERAâ€3 and MARSIS measurements. Journal of Geophysical Research, 2008, 113, .	3.3	70
22	Why an intrinsic magnetic field does not protect a planet against atmospheric escape. Astronomy and Astrophysics, 2018, 614, L3.	5.1	69
23	Observation of a new type of low-frequency waves at comet 67P/Churyumov-Gerasimenko. Annales Geophysicae, 2015, 33, 1031-1036.	1.6	66
24	RPC observation of the development and evolution of plasma interaction boundaries at 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S9-S22.	4.4	62
25	Statistical distribution of the storm-time proton ring current: POLAR measurements. Geophysical Research Letters, 2002, 29, 30-1-30-4.	4.0	61
26	Atmospheric erosion of Venus during stormy space weather. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	60
27	Solar cycle effects on the ion escape from Mars. Geophysical Research Letters, 2013, 40, 6028-6032.	4.0	58
28	Mass loading at 67P/Churyumovâ€Gerasimenko: A case study. Geophysical Research Letters, 2016, 43, 1411-1418.	4.0	58
29	The birth and growth of a solar wind cavity around a comet â€“ Rosetta observations. Monthly Notices of the Royal Astronomical Society, 2017, 469, S396-S403.	4.4	57
30	On the origin of magnetosheath plasmoids and their relation to magnetosheath jets. Journal of Geophysical Research: Space Physics, 2015, 120, 7390-7403.	2.4	56
31	Evolution of the ion environment of comet 67P during the Rosetta mission as seen by RPC-ICA. Monthly Notices of the Royal Astronomical Society, 2017, 469, S252-S261.	4.4	55
32	Characteristics of high altitude oxygen ion energization and outflow as observed by Cluster: a statistical study. Annales Geophysicae, 2006, 24, 1099-1112.	1.6	55
33	Evolution of water production of 67P/Churyumov-Gerasimenko: An empirical model and a multi-instrument study. Monthly Notices of the Royal Astronomical Society, 0, , stw2413.	4.4	54
34	Localized density enhancements in the magnetosheath: Threeâ€dimensional morphology and possible importance for impulsive penetration. Journal of Geophysical Research, 2012, 117, .	3.3	52
35	Estimating the capture and loss of cold plasma from ionospheric outflow. Journal of Geophysical Research, 2012, 117, .	3.3	52
36	Diamagnetic region(s): structure of the unmagnetized plasma around Comet 67P/CG. Monthly Notices of the Royal Astronomical Society, 2017, 469, S372-S379.	4.4	51

#	Article	IF	Citations
37	Atmospheric origin of cold ion escape from Mars. Geophysical Research Letters, 2009, 36, .	4.0	49
38	On the relation between plasma escape and the Martian crustal magnetic field. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	49
39	Hot and cold ion outflow: Spatial distribution of ion heating. Journal of Geophysical Research, 2012, 117, .	3.3	48
40	Centrifugal acceleration in the magnetotail lobes. Annales Geophysicae, 2010, 28, 569-576.	1.6	47
41	Ion distributions in the vicinity of Mars: Signatures of heating and acceleration processes. Earth, Planets and Space, 2012, 64, 135-148.	2.5	47
42	Mass-loading, pile-up, and mirror-mode waves at comet 67P/Churyumov-Gerasimenko. Annales Geophysicae, 2016, 34, 1-15.	1.6	46
43	Atmospheric escape from unmagnetized bodies. Journal of Geophysical Research E: Planets, 2016, 121, 2364-2385.	3.6	44
44	Global Marsâ€solar wind coupling and ion escape. Journal of Geophysical Research: Space Physics, 2017, 122, 8051-8062.	2.4	43
45	CME impact on comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S45-S56.	4.4	42
46	Ionospheric signature of the cusp as seen by incoherent scatter radar. Journal of Geophysical Research, 1996, 101, 10947-10963.	3.3	39
47	Polar mesosphere summer echoes at Wasa, Antarctica (73Â°S): First observations and comparison with 68Â°N. Geophysical Research Letters, 2007, 34, .	4.0	39
48	Vertical structure of the near-surface expanding ionosphere of comet 67P probed by Rosetta. Monthly Notices of the Royal Astronomical Society, 2017, 469, S118-S129.	4.4	39
49	Measurements of the electrostatic potential of Rosetta at comet 67P. Monthly Notices of the Royal Astronomical Society, 2017, 469, S568-S581.	4.4	39
50	An assessment of the role of the centrifugal acceleration mechanism in high altitude polar cap oxygen ion outflow. Annales Geophysicae, 2008, 26, 145-157.	1.6	38
51	Mass-loading of the solar wind at 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 596, A42.	5.1	38
52	Ionospheric Response Observed by EISCAT During the 6â€"8 September 2017 Space Weather Event: Overview. Space Weather, 2018, 16, 1437-1450.	3.7	38
53	EISCAT-Cluster observations of quiet-time near-Earth magnetotail fast flows and their signatures in the ionosphere. Annales Geophysicae, 2011, 29, 299-319.	1.6	37
54	Hybrid modelling of cometary plasma environments. Astronomy and Astrophysics, 2017, 604, A73.	5.1	37

#	Article	IF	Citations
55	Magnetic reconnection and cold plasma at the magnetopause. Geophysical Research Letters, 2010, 37, .	4.0	35
56	Proton and hydrogen atom transport in the Martian upper atmosphere with an induced magnetic field. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	35
57	Phobos 2/ASPERA data revisited: Planetary ion escape rate from Mars near the 1989 solar maximum. Geophysical Research Letters, 2013, 40, 477-481.	4.0	35
58	Effects of the crustal magnetic fields on the Martian atmospheric ion escape rate. Geophysical Research Letters, 2016, 43, 10,574.	4.0	34
59	The structure of high altitude O⁺ energization and outflow: a case study. Annales Geophysicae, 2004, 22, 2497-2506.	1.6	33
60	Plasma penetration of the dayside magnetopause. Physics of Plasmas, 2012, 19, .	1.9	33
61	The atmosphere of comet 67P/Churyumov-Gerasimenko diagnosed by charge-exchanged solar wind alpha particles. Astronomy and Astrophysics, 2016, 587, A154.	5.1	33
62	Solar wind interaction with comet 67P: Impacts of corotating interaction regions. Journal of Geophysical Research: Space Physics, 2016, 121, 949-965.	2.4	33
63	Observational evidence of alphaâ€particle capture at Mars. Geophysical Research Letters, 2011, 38, .	4.0	32
64	The infant bow shock: a new frontier at a weak activity comet. Astronomy and Astrophysics, 2018, 619, L2.	5.1	32
65	Venus ion outflow estimates at solar minimum: Influence of reference frames and disturbed solar wind conditions. Journal of Geophysical Research: Space Physics, 2013, 118, 3592-3601.	2.4	30
66	Hot and cold ion outflow: Observations and implications for numerical models. Journal of Geophysical Research: Space Physics, 2013, 118, 105-117.	2.4	29
67	Effective ion speeds at â^¼200â€"250Âkm from comet 67P/Churyumovâ€"Gerasimenko near perihelion. Monthly Notices of the Royal Astronomical Society, 2017, 469, S142-S148.	4.4	29
68	Ion Escape From Mars Through Time: An Extrapolation of Atmospheric Loss Based on 10 Years of Mars Express Measurements. Journal of Geophysical Research E: Planets, 2018, 123, 3051-3060.	3.6	29
69	Characteristics of terrestrial foreshock ULF waves: Cluster observations. Journal of Geophysical Research, 2007, 112, .	3.3	28
70	Auroral Plasma Acceleration Above Martian Magnetic Anomalies. Space Science Reviews, 2007, 126, 333-354.	8.1	28
71	A case study of proton precipitation at Mars: Mars Express observations and hybrid simulations. Journal of Geophysical Research, 2012, 117, .	3.3	28
72	Ion acoustic waves at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2017, 600, A3.	5.1	28

#	Article	IF	Citations
73	Atmospheric loss from the dayside open polar region and its dependence on geomagnetic activity: implications for atmospheric escape on evolutionary timescales. Annales Geophysicae, 2017, 35, 721-731.	1.6	28
74	H⁺/O⁺ Escape Rate Ratio in the Venus Magnetotail and its Dependence on the Solar Cycle. Geophysical Research Letters, 2018, 45, 10,805.	4.0	28
75	Statistical evidence for O⁺ energization and outflow caused by wave-particle interaction in the high altitude cusp and mantle. Annales Geophysicae, 2011, 29, 945-954.	1.6	26
76	Cold ion escape from the Martian ionosphere. Planetary and Space Science, 2015, 119, 92-102.	1.7	26
77	Rosetta measurements of lower hybrid frequency range electric field oscillations in the plasma environment of comet 67P. Geophysical Research Letters, 2017, 44, 1641-1651.	4.0	26
78	Size of a plasma cloud matters. Astronomy and Astrophysics, 2018, 616, A50.	5.1	26
79	Cometary plasma response to interplanetary corotating interaction regions during 2016 Juneâ€"September: a quantitative study by the Rosetta Plasma Consortium. Monthly Notices of the Royal Astronomical Society, 2018, 480, 4544-4556.	4.4	26
80	SERENA: Particle Instrument Suite for Determining the Sun-Mercury Interaction from BepiColombo. Space Science Reviews, 2021, 217, 11.	8.1	26
81	The Venusian Atmospheric Oxygen Ion Escape: Extrapolation to the Early Solar System. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006336.	3.6	25
82	Statistics of high-altitude and high-latitude O⁺ ion outflows observed by Cluster/CIS. Annales Geophysicae, 2005, 23, 1909-1916.	1.6	25
83	The evolution of flux pileup regions in the plasma sheet: Cluster observations. Journal of Geophysical Research: Space Physics, 2013, 118, 6279-6290.	2.4	24
84	A statistical study of proton precipitation onto the Martian upper atmosphere: Mars Express observations. Journal of Geophysical Research: Space Physics, 2013, 118, 1972-1983.	2.4	24
85	Investigating short-time-scale variations in cometary ions around comet 67P. Monthly Notices of the Royal Astronomical Society, 2017, 469, S522-S534.	4.4	24
86	Solar wind dynamics around a comet. Astronomy and Astrophysics, 2018, 620, A35.	5.1	23
87	Shear driven waves in the induced magnetosphere of Mars. Plasma Physics and Controlled Fusion, 2008, 50, 074018.	2.1	22
88	Evolution in space and time of the quasi-static acceleration potential of inverted-V aurora and its interaction with AlfvÃ©nic boundary processes. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	22
89	Evidence for the braking of flow bursts as they propagate toward the Earth. Journal of Geophysical Research: Space Physics, 2014, 119, 9004-9018.	2.4	22
90	Proton and alpha particle precipitation onto the upper atmosphere of Venus. Planetary and Space Science, 2015, 113-114, 369-377.	1.7	22

#	Article	IF	Citations
91	Cometary ion dynamics observed in the close vicinity of comet 67P/Churyumovâ€“Gerasimenko during the intermediate activity period. Astronomy and Astrophysics, 2018, 613, A57.	5.1	22
92	On the origin of molecular oxygen in cometary comae. Nature Communications, 2018, 9, 2580.	12.8	22
93	The ionospheric signature of the cusp: A case study using Freja and the Sondrestrom radar. Geophysical Research Letters, 1994, 21, 1923-1926.	4.0	21
94	Dynamics and electric currents of morningside Sun-aligned auroral arcs. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	21
95	Mars Under Primordial Solar Wind Conditions: Mars Express Observations of the Strongest CME Detected at Mars Under Solar Cycle #24 and its Impact on Atmospheric Ion Escape. Geophysical Research Letters, 2017, 44, 10,805.	4.0	21
96	Earth atmospheric loss through the plasma mantle and its dependence on solar wind parameters. Earth, Planets and Space, 2019, 71, .	2.5	21
97	Solar wind charge exchange in cometary atmospheres. Astronomy and Astrophysics, 2019, 630, A37.	5.1	21
98	Impact of a cometary outburst on its ionosphere. Astronomy and Astrophysics, 2017, 607, A34.	5.1	21
99	Rosetta and Mars Express observations of the influence of high solar wind pressure on the Martian plasma environment. Annales Geophysicae, 2009, 27, 4533-4545.	1.6	21
100	Source location of the wedge-like dispersed ring current in the morning sector during a substorm. Journal of Geophysical Research, 2006, 111, .	3.3	20
101	Investigation of the Influence of Magnetic Anomalies on Ion Distributions at Mars. Space Science Reviews, 2007, 126, 355-372.	8.1	20
102	O⁺ heating associated with strong wave activity in the high altitude cusp and mantle. Annales Geophysicae, 2011, 29, 931-944.	1.6	20
103	IMF dependence of the azimuthal direction of earthward magnetotail fast flows. Geophysical Research Letters, 2013, 40, 5598-5604.	4.0	20
104	O⁺ Escape During the Extreme Space Weather Event of 4â€“10 September 2017. Space Weather, 2018, 16, 1363-1376.	3.7	20
105	Transients in oxygen outflow above the polar cap as observed by the Cluster spacecraft. Annales Geophysicae, 2008, 26, 3365-3373.	1.6	19
106	Backscattered solar wind protons by Phobos. Journal of Geophysical Research, 2010, 115, .	3.3	19
107	A statistical study on O⁺ flux in the dayside magnetosheath. Annales Geophysicae, 2013, 31, 1005-1010.	1.6	19
108	Plasma waves confined to the diamagnetic cavity of comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S84-S92.	4.4	19

#	Article	IF	Citations
109	Dynamic unmagnetized plasma in the diamagnetic cavity around comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2018, 475, 4140-4147.	4.4	19
110	MAVEN Observations of Periodic Low-altitude Plasma Clouds at Mars. Astrophysical Journal Letters, 2021, 922, L33.	8.3	19
111	Magnetic forces associated with bursty bulk flows in Earth's magnetotail. Geophysical Research Letters, 2015, 42, 3122-3128.	4.0	18
112	Azimuthal velocity shear within an Earthward fast flow â€“ further evidence for magnetotail untwisting?. Annales Geophysicae, 2015, 33, 245-255.	1.6	18
113	Response of magnetotail twisting to variations in IMF <i>B</i>_{<i>y</i>}: A THEMIS case study 1â€“2 January 2009. Geophysical Research Letters, 2016, 43, 7822-7830.	4.0	18
114	Oxygen energization by localized perpendicular electric fields at the cusp boundary. Geophysical Research Letters, 2010, 37, .	4.0	17
115	Spatiotemporal features of the auroral acceleration region as observed by Cluster. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	17
116	Invertedâ€V and lowâ€energy broadband electron acceleration features of multiple auroras within a largeâ€scale surge. Journal of Geophysical Research: Space Physics, 2013, 118, 5543-5552.	2.4	17
117	O⁺ transport in the dayside magnetosheath and its dependence on the IMF direction. Annales Geophysicae, 2015, 33, 301-307.	1.6	17
118	A new height for the summer mesopause: Antarctica, December 2007. Geophysical Research Letters, 2008, 35, .	4.0	16
119	The root of a comet tail: Rosetta ion observations at comet 67P/Churyumovâ€“Gerasimenko. Astronomy and Astrophysics, 2018, 616, A21.	5.1	16
120	Average cometary ion flow pattern in the vicinity of comet 67P from moment data. Monthly Notices of the Royal Astronomical Society, 2020, 498, 5263-5272.	4.4	16
121	Observations of oxygen ions in the dayside magnetosheath associated with southward IMF. Journal of Geophysical Research, 2012, 117, .	3.3	15
122	Magnetosphereâ€ionosphere coupling of global Pi2 pulsations. Journal of Geophysical Research: Space Physics, 2014, 119, 2717-2739.	2.4	14
123	Cold Ion Outflow Modulated by the Solar Wind Energy Input and Tilt of the Geomagnetic Dipole. Journal of Geophysical Research: Space Physics, 2017, 122, 10,658.	2.4	14
124	Energy conversion in cometary atmospheres. Astronomy and Astrophysics, 2018, 616, A81.	5.1	14
125	Proton Temperature Anisotropies in the Plasma Environment of Venus. Journal of Geophysical Research: Space Physics, 2019, 124, 3312-3330.	2.4	14
126	Flow pattern of accelerated cometary ions inside and outside the diamagnetic cavity of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A43.	5.1	14

#	Article	IF	Citations
127	Solar wind charge exchange in cometary atmospheres. Astronomy and Astrophysics, 2019, 630, A35.	5.1	14
128	Scaling behavior of auroral luminosity fluctuations observed by Auroral Large Imaging System (ALIS). Journal of Geophysical Research, 2008, 113, .	3.3	13
129	Simultaneous measurements of Martian plasma boundaries by Rosetta and Mars Express. Planetary and Space Science, 2009, 57, 1085-1096.	1.7	13
130	Solar cycle variation of ion escape from Mars. Icarus, 2023, 393, 114610.	2.5	13
131	Response of polar mesosphere summer echoes to geomagnetic disturbances in the Southern and Northern Hemispheres: the importance of nitric oxide. Annales Geophysicae, 2013, 31, 333-347.	1.6	12
132	Energyâ€"angle dispersion of accelerated heavy ions at 67P/Churyumovâ€"Gerasimenko: implication in the mass-loading mechanism. Monthly Notices of the Royal Astronomical Society, 2017, 469, S339-S345.	4.4	12
133	Hybrid modeling of cometary plasma environments. Astronomy and Astrophysics, 2019, 630, A45.	5.1	12
134	Cluster multipoint study of the acceleration potential pattern and electrodynamics of an auroral surge and its associated horn arc. Journal of Geophysical Research, 2012, 117, .	3.3	11
135	Statistical features of the global polarity reversal of the Venusian induced magnetosphere in response to the polarity change in interplanetary magnetic field. Journal of Geophysical Research: Space Physics, 2016, 121, 3951-3962.	2.4	11
136	Oxygen ion response to proton bursty bulk flows. Journal of Geophysical Research: Space Physics, 2016, 121, 7535-7546.	2.4	11
137	Current sheets in comet 67P/Churyumovâ€Gerasimenko's coma. Journal of Geophysical Research: Space Physics, 2017, 122, 3308-3321.	2.4	11
138	Plasma density structures at comet 67P/Churyumovâ€"Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1296-1307.	4.4	11
139	Solar wind charge exchange in cometary atmospheres. Astronomy and Astrophysics, 2019, 630, A36.	5.1	11
140	Numerical experiments on plasmoids entering a transverse magnetic field. Physics of Plasmas, 2009, 16, 112901.	1.9	10
141	Oxygen ion energization observed at high altitudes. Annales Geophysicae, 2010, 28, 907-916.	1.6	10
142	Reduced proton and alpha particle precipitations at Mars during solar wind pressure pulses: Mars Express results. Journal of Geophysical Research: Space Physics, 2013, 118, 3421-3429.	2.4	10
143	Quantification of the total ion transport in the near-Earth plasma sheet. Annales Geophysicae, 2017, 35, 869-877.	1.6	10
144	The Oxygen Ion Circulation in The Outer Terrestrial Magnetosphere and Its Dependence on Geomagnetic Activity. Geophysical Research Letters, 2018, 45, 12,669.	4.0	10

#	Article	IF	Citations
145	Mass Composition of the Escaping Flux at Mars: MEX Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 8806-8822.	2.4	10
146	Unusually high magnetic fields in the coma of 67P/Churyumov-Gerasimenko during its high-activity phase. Astronomy and Astrophysics, 2019, 630, A38.	5.1	10
147	Acceleration of ions and nano dust at a comet in the solar wind. Planetary and Space Science, 2015, 119, 13-23.	1.7	9
148	Ion pickup observed at comet 67P with the Rosetta Plasma Consortium (RPC) particle sensors: similarities with previous observations and AMPTE releases, and effects of increasing activity. Journal of Physics: Conference Series, 2015, 642, 012005.	0.4	9
149	Relative outflow enhancements during major geomagnetic storms â€“ Cluster observations. Annales Geophysicae, 2017, 35, 1341-1352.	1.6	9
150	Warm protons at comet 67P/Churyumovâ€“Gerasimenko â€“ implications for the infant bow shock. Annales Geophysicae, 2021, 39, 379-396.	1.6	9
151	Plasma densities, flow, and solar EUV flux at comet 67P. Astronomy and Astrophysics, 2021, 653, A128.	5.1	9
152	Cluster observations of hot He⁺ events in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 2706-2716.	2.4	8
153	Lowâ€frequency oscillatory flow signatures and highâ€speed flows in the Earth's magnetotail. Journal of Geophysical Research: Space Physics, 2017, 122, 7042-7056.	2.4	8
154	Momentum and Pressure Balance of a Comet Ionosphere. Geophysical Research Letters, 2020, 47, e2020GL088666.	4.0	8
155	Ion bulk speeds and temperatures in the diamagnetic cavity of comet 67P from RPC-ICA measurements. Monthly Notices of the Royal Astronomical Society, 2021, 503, 2733-2745.	4.4	8
156	On the field-aligned currents in the vicinity of prenoon auroral arcs. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	7
157	Lowâ€altitude electron acceleration due to multiple flow bursts in the magnetotail. Geophysical Research Letters, 2014, 41, 777-784.	4.0	7
158	The Convective Electric Field Influence on the Cold Plasma and Diamagnetic Cavity of Comet 67P. Astronomical Journal, 2019, 158, 71.	4.7	7
159	Polarisation of a small-scale cometary plasma environment. Astronomy and Astrophysics, 2019, 631, A174.	5.1	7
160	Remote sensing of cometary bow shocks: modelled asymmetric outgassing and pickup ion observations. Monthly Notices of the Royal Astronomical Society, 2021, 506, 4735-4749.	4.4	7
161	Simultaneous observations of Polar Mesosphere Summer Echoes at two different latitudes in Antarctica. Annales Geophysicae, 2008, 26, 3783-3792.	1.6	6
162	Influence of the Interplanetary Convective Electric Field on the Distribution of Heavy Pickup Ions Around Mars. Journal of Geophysical Research: Space Physics, 2018, 123, 473-484.	2.4	6

#	Article	IF	Citations
163	Global Venusâ€Solar Wind Coupling and Oxygen Ion Escape. Geophysical Research Letters, 2021, 48, e2020GL091213.	4.0	6
164	Interaction of Space Weather Phenomena with Mars Plasma Environment During Solar Minimum 23/24. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028442.	2.4	6
165	Classifying the Magnetosheath Behind the Quasiâ€Parallel and Quasiâ€Perpendicular Bow Shock by Local Measurements. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029269.	2.4	6
166	Observations of an enhanced convection flow channel for northward turning IMF. Geophysical Research Letters, 1997, 24, 3137-3140.	4.0	5
167	A comparison study between observations and simulation results of Barghouthi model for O⁺ and H⁺ outflows in the polar wind. Annales Geophysicae, 2011, 29, 2061-2079.	1.6	5
168	Two years of solar wind and pickup ion measurements at comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S262-S267.	4.4	5
169	Estimating the Kinetic Energy Budget of the Polar Wind Outflow. Journal of Geophysical Research: Space Physics, 2018, 123, 7917-7929.	2.4	5
170	Flow directions of low-energy ions in and around the diamagnetic cavity of comet 67P. Monthly Notices of the Royal Astronomical Society, 2021, 507, 4900-4913.	4.4	5
171	Oxygen ion energization by waves in the high altitude cusp and mantle. Annales Geophysicae, 2012, 30, 1309-1314.	1.6	4
172	Spatial characteristics of wave-like structures in diffuse aurora obtained using optical observations. Annales Geophysicae, 2012, 30, 1693-1701.	1.6	4
173	Centrifugal acceleration at high altitudes above the polar cap: A Monte Carlo simulation. Journal of Geophysical Research: Space Physics, 2015, 120, 6409-6426.	2.4	4
174	Dawnâ€“dusk asymmetry induced by the Parker spiral angle in the plasma dynamics around comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2018, 478, 1570-1575.	4.4	4
175	Electron acceleration at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A40.	5.1	4
176	Heavy Ion Flows in the Upper Ionosphere of the Venusian North Pole. Journal of Geophysical Research: Space Physics, 2019, 124, 4597-4607.	2.4	4
177	Electric field measurements at the plasma frequency around comet 67P by RPC-MIP on board Rosetta. Astronomy and Astrophysics, 2021, 652, A73.	5.1	4
178	Dynamic field line draping at comet 67P/Churyumov-Gerasimenko during the Rosetta dayside excursion. Astronomy and Astrophysics, 2019, 630, A44.	5.1	4
179	Solar wind charge exchange in cometary atmospheres. Astronomy and Astrophysics, 2020, 640, C3.	5.1	4
180	Plasma Density and Magnetic Field Fluctuations in the Ion Gyroâ€Frequency Range Near the Diamagnetic Cavity of Comet 67P. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028592.	2.4	4

#	Article	IF	Citations
181	Complex study of the auroral arc dynamics and ionospheric plasma convection in prenoon hours. Geomagnetism and Aeronomy, 2006, 46, 473-484.	0.8	3
182	Ion acoustic waves near a comet nucleus: Rosetta observations at comet 67P/Churyumovâ€“Gerasimenko. Annales Geophysicae, 2021, 39, 53-68.	1.6	3
183	Cometary plasma science. Experimental Astronomy, 2022, 54, 1129-1167.	3.7	3
184	Upstream solar wind speed at comet 67P. Reconstruction method, model comparison, and results. Astronomy and Astrophysics, 0, , .	5.1	3
185	Development of a cometosheath at comet 67P/Churyumov-Gerasimenko. A case study comparison of Rosetta observations. Astronomy and Astrophysics, 0, , .	5.1	3
186	Comparison between the simulation results of Barghouthi model for ion outflows in the polar wind and auroral regions. Journal of the Association of Arab Universities for Basic and Applied Sciences, 2012, 12, 1-10.	1.0	2
187	O + and H + above the polar cap: Observations and semikinetic simulations. Journal of Geophysical Research: Space Physics, 2016, 121, 459-474.	2.4	2
188	The fate of O⁺ ions observed in the plasma mantle: particle tracing modelling and cluster observations. Annales Geophysicae, 2020, 38, 645-656.	1.6	2
189	3D MHD reconnection model coupled with Cluster multiâ€spacecraft data. Journal of Geophysical Research, 2008, 113, .	3.3	1
190	O⁺ and H⁺ ion heat fluxes at high altitudes and high latitudes. Annales Geophysicae, 2014, 32, 1043-1057.	1.6	1
191	First negative system of N₂⁺ in aurora: simultaneous space-borne and ground-based measurements and modeling results. Annales Geophysicae, 2014, 32, 499-506.	1.6	1
192	Foreshock ions observed behind the Martian bow shock. Planetary and Space Science, 2016, 127, 15-32.	1.7	1
193	Oscillatory Flows in the Magnetotail Plasma Sheet: Cluster Observations of the Distribution Function. Journal of Geophysical Research: Space Physics, 2019, 124, 2736-2754.	2.4	1
194	Oxygen Ion Flow Reversals in Earth's Magnetotail: A Cluster Statistical Study. Journal of Geophysical Research: Space Physics, 2019, 124, 8928-8942.	2.4	0
195	Observations of Modulation of Ion flux in the Coma of Comet 67P/Churyumovâ€Gerasimenko. Geophysical Research Letters, 0, , .	4.0	0