

# Hans Nilsson

## List of Publications by Year in descending order

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195  
papers

5,686  
citations

66234

42  
h-index

123241

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.	3.7	135
2	Heavy ion escape from Mars, influence from solar wind conditions and crustal magnetic fields. Icarus, 2011, 215, 475-484.	1.1	114
3	A comparison of global models for the solar wind interaction with Mars. Icarus, 2010, 206, 139-151.	1.1	108
4	Birth of a comet magnetosphere: A spring of water ions. Science, 2015, 347, aaa0571.	6.0	107
5	RPC-ICA: The Ion Composition Analyzer of the Rosetta Plasma Consortium. Space Science Reviews, 2007, 128, 671-695.	3.7	104
6	Mass composition of the escaping plasma at Mars. Icarus, 2006, 182, 320-328.	1.1	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.	0.9	102
8	First detection of a diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 588, A24.	2.1	95
9	A comet-like escape of ionospheric plasma from Mars. Geophysical Research Letters, 2008, 35, .	1.5	94
10	Pumping out the atmosphere of Mars through solar wind pressure pulses. Geophysical Research Letters, 2010, 37, .	1.5	88
11	Interplanetary coronal mass ejection observed at STEREO-A, Mars, comet 67P/Churyumov-Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9 AU. Journal of Geophysical Research: Space Physics, 2017, 122, 7865-7890.	0.8	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.	1.5	84
13	The interaction between the Moon and the solar wind. Earth, Planets and Space, 2012, 64, 237-245.	0.9	80
14	Structure and evolution of the diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S459-S467.	1.6	79
15	Solar forcing and planetary ion escape from Mars. Geophysical Research Letters, 2008, 35, .	1.5	77
16	Evolution of the ion environment of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A20.	2.1	76
17	Ionospheric plasma of comet 67P probed by Rosetta at 3 AU from the Sun. Monthly Notices of the Royal Astronomical Society, 2016, 462, S331-S351.	1.6	75
18	Spatial distribution of low-energy plasma around comet 67P/CG from Rosetta measurements. Geophysical Research Letters, 2015, 42, 4263-4269.	1.5	74

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19	Ion escape from Mars as a function of solar wind conditions: A statistical study. <i>Icarus</i> , 2010, 206, 40-49.	1.1	72
20	High-latitude Sporadic-E and other Thin Layers – the Role of Magnetospheric Electric Fields. <i>Space Science Reviews</i> , 2000, 91, 579-613.	3.7	70
21	Observations of aurorae by SPICAM ultraviolet spectrograph on board Mars Express: Simultaneous ASPERA-3 and MARSIS measurements. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	70
22	Why an intrinsic magnetic field does not protect a planet against atmospheric escape. <i>Astronomy and Astrophysics</i> , 2018, 614, L3.	2.1	69
23	Observation of a new type of low-frequency waves at comet 67P/Churyumov-Gerasimenko. <i>Annales Geophysicae</i> , 2015, 33, 1031-1036.	0.6	66
24	RPC observation of the development and evolution of plasma interaction boundaries at 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S9-S22.	1.6	62
25	Statistical distribution of the storm-time proton ring current: POLAR measurements. <i>Geophysical Research Letters</i> , 2002, 29, 30-1-30-4.	1.5	61
26	Atmospheric erosion of Venus during stormy space weather. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	60
27	Solar cycle effects on the ion escape from Mars. <i>Geophysical Research Letters</i> , 2013, 40, 6028-6032.	1.5	58
28	Mass loading at 67P/Churyumov-Gerasimenko: A case study. <i>Geophysical Research Letters</i> , 2016, 43, 1411-1418.	1.5	58
29	The birth and growth of a solar wind cavity around a comet – Rosetta observations. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S396-S403.	1.6	57
30	On the origin of magnetosheath plasmoids and their relation to magnetosheath jets. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7390-7403.	0.8	56
31	Evolution of the ion environment of comet 67P during the Rosetta mission as seen by RPC-ICA. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S252-S261.	1.6	55
32	Characteristics of high altitude oxygen ion energization and outflow as observed by Cluster: a statistical study. <i>Annales Geophysicae</i> , 2006, 24, 1099-1112.	0.6	55
33	Evolution of water production of 67P/Churyumov-Gerasimenko: An empirical model and a multi-instrument study. <i>Monthly Notices of the Royal Astronomical Society</i> , 0, , stw2413.	1.6	54
34	Localized density enhancements in the magnetosheath: Three-dimensional morphology and possible importance for impulsive penetration. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	52
35	Estimating the capture and loss of cold plasma from ionospheric outflow. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	52
36	Diamagnetic region(s): structure of the unmagnetized plasma around Comet 67P/CG. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S372-S379.	1.6	51

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37	Atmospheric origin of cold ion escape from Mars. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	49
38	On the relation between plasma escape and the Martian crustal magnetic field. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	1.5	49
39	Hot and cold ion outflow: Spatial distribution of ion heating. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	48
40	Centrifugal acceleration in the magnetotail lobes. <i>Annales Geophysicae</i> , 2010, 28, 569-576.	0.6	47
41	Ion distributions in the vicinity of Mars: Signatures of heating and acceleration processes. <i>Earth, Planets and Space</i> , 2012, 64, 135-148.	0.9	47
42	Mass-loading, pile-up, and mirror-mode waves at comet 67P/Churyumov-Gerasimenko. <i>Annales Geophysicae</i> , 2016, 34, 1-15.	0.6	46
43	Atmospheric escape from unmagnetized bodies. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 2364-2385.	1.5	44
44	Global Mars-solar wind coupling and ion escape. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8051-8062.	0.8	43
45	CME impact on comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2016, 462, S45-S56.	1.6	42
46	Ionospheric signature of the cusp as seen by incoherent scatter radar. <i>Journal of Geophysical Research</i> , 1996, 101, 10947-10963.	3.3	39
47	Polar mesosphere summer echoes at Wasa, Antarctica (73°S): First observations and comparison with 68°N. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	39
48	Vertical structure of the near-surface expanding ionosphere of comet 67P probed by Rosetta. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S118-S129.	1.6	39
49	Measurements of the electrostatic potential of Rosetta at comet 67P. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S568-S581.	1.6	39
50	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.	0.6	38
51	Mass-loading of the solar wind at 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2016, 596, A42.	2.1	38
52	Ionospheric Response Observed by EISCAT During the 6-8 September 2017 Space Weather Event: Overview. <i>Space Weather</i> , 2018, 16, 1437-1450.	1.3	38
53	EISCAT-Cluster observations of quiet-time near-Earth magnetotail fast flows and their signatures in the ionosphere. <i>Annales Geophysicae</i> , 2011, 29, 299-319.	0.6	37
54	Hybrid modelling of cometary plasma environments. <i>Astronomy and Astrophysics</i> , 2017, 604, A73.	2.1	37

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55	Magnetic reconnection and cold plasma at the magnetopause. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	35
56	Proton and hydrogen atom transport in the Martian upper atmosphere with an induced magnetic field. <i>Journal of Geophysical Research</i> , 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. <i>Geophysical Research Letters</i> , 2013, 40, 477-481.	1.5	35
58	Effects of the crustal magnetic fields on the Martian atmospheric ion escape rate. <i>Geophysical Research Letters</i> , 2016, 43, 10,574.	1.5	34
59	The structure of high altitude O <sup>+</sup> energization and outflow: a case study. <i>Annales Geophysicae</i> , 2004, 22, 2497-2506.	0.6	33
60	Plasma penetration of the dayside magnetopause. <i>Physics of Plasmas</i> , 2012, 19, .	0.7	33
61	The atmosphere of comet 67P/Churyumov-Gerasimenko diagnosed by charge-exchanged solar wind alpha particles. <i>Astronomy and Astrophysics</i> , 2016, 587, A154.	2.1	33
62	Solar wind interaction with comet 67P: Impacts of corotating interaction regions. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 949-965.	0.8	33
63	Observational evidence of alpha <sup>+</sup> particle capture at Mars. <i>Geophysical Research Letters</i> , 2011, 38, .	1.5	32
64	The infant bow shock: a new frontier at a weak activity comet. <i>Astronomy and Astrophysics</i> , 2018, 619, L2.	2.1	32
65	Venus ion outflow estimates at solar minimum: Influence of reference frames and disturbed solar wind conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3592-3601.	0.8	30
66	Hot and cold ion outflow: Observations and implications for numerical models. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 105-117.	0.8	29
67	Effective ion speeds at $\sim 200$ – $250$ km from comet 67P/Churyumov-Gerasimenko near perihelion. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S142-S148.	1.6	29
68	Ion Escape From Mars Through Time: An Extrapolation of Atmospheric Loss Based on 10 Years of Mars Express Measurements. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 3051-3060.	1.5	29
69	Characteristics of terrestrial foreshock ULF waves: Cluster observations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	28
70	Auroral Plasma Acceleration Above Martian Magnetic Anomalies. <i>Space Science Reviews</i> , 2007, 126, 333-354.	3.7	28
71	A case study of proton precipitation at Mars: Mars Express observations and hybrid simulations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
72	Ion acoustic waves at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2017, 600, A3.	2.1	28

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73	Atmospheric loss from the dayside open polar region and its dependence on geomagnetic activity: implications for atmospheric escape on evolutionary timescales. <i>Annales Geophysicae</i> , 2017, 35, 721-731.	0.6	28
74	$H^{+}/O^{+}$ Escape Rate Ratio in the Venus Magnetotail and its Dependence on the Solar Cycle. <i>Geophysical Research Letters</i> , 2018, 45, 10,805.	1.5	28
75	Statistical evidence for $O^{+}$ energization and outflow caused by wave-particle interaction in the high altitude cusp and mantle. <i>Annales Geophysicae</i> , 2011, 29, 945-954.	0.6	26
76	Cold ion escape from the Martian ionosphere. <i>Planetary and Space Science</i> , 2015, 119, 92-102.	0.9	26
77	Rosetta measurements of lower hybrid frequency range electric field oscillations in the plasma environment of comet 67P. <i>Geophysical Research Letters</i> , 2017, 44, 1641-1651.	1.5	26
78	Size of a plasma cloud matters. <i>Astronomy and Astrophysics</i> , 2018, 616, A50.	2.1	26
79	Cometary plasma response to interplanetary corotating interaction regions during 2016 June–September: a quantitative study by the Rosetta Plasma Consortium. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 480, 4544-4556.	1.6	26
80	SERENA: Particle Instrument Suite for Determining the Sun-Mercury Interaction from BepiColombo. <i>Space Science Reviews</i> , 2021, 217, 11.	3.7	26
81	The Venusian Atmospheric Oxygen Ion Escape: Extrapolation to the Early Solar System. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006336.	1.5	25
82	Statistics of high-altitude and high-latitude $O^{+}$ ion outflows observed by Cluster/CIS. <i>Annales Geophysicae</i> , 2005, 23, 1909-1916.	0.6	25
83	The evolution of flux pileup regions in the plasma sheet: Cluster observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6279-6290.	0.8	24
84	A statistical study of proton precipitation onto the Martian upper atmosphere: Mars Express observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 1972-1983.	0.8	24
85	Investigating short-time-scale variations in cometary ions around comet 67P. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S522-S534.	1.6	24
86	Solar wind dynamics around a comet. <i>Astronomy and Astrophysics</i> , 2018, 620, A35.	2.1	23
87	Shear driven waves in the induced magnetosphere of Mars. <i>Plasma Physics and Controlled Fusion</i> , 2008, 50, 074018.	0.9	22
88	Evolution in space and time of the quasi-static acceleration potential of inverted-V aurora and its interaction with Alfvénic boundary processes. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	22
89	Evidence for the braking of flow bursts as they propagate toward the Earth. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9004-9018.	0.8	22
90	Proton and alpha particle precipitation onto the upper atmosphere of Venus. <i>Planetary and Space Science</i> , 2015, 113-114, 369-377.	0.9	22

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91	Cometary ion dynamics observed in the close vicinity of comet 67P/Churyumov-Gerasimenko during the intermediate activity period. <i>Astronomy and Astrophysics</i> , 2018, 613, A57.	2.1	22
92	On the origin of molecular oxygen in cometary comae. <i>Nature Communications</i> , 2018, 9, 2580.	5.8	22
93	The ionospheric signature of the cusp: A case study using Freja and the Sondrestrom radar. <i>Geophysical Research Letters</i> , 1994, 21, 1923-1926.	1.5	21
94	Dynamics and electric currents of morningside Sun-aligned auroral arcs. <i>Journal of Geophysical Research</i> , 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. <i>Geophysical Research Letters</i> , 2017, 44, 10,805.	1.5	21
96	Earth atmospheric loss through the plasma mantle and its dependence on solar wind parameters. <i>Earth, Planets and Space</i> , 2019, 71, .	0.9	21
97	Solar wind charge exchange in cometary atmospheres. <i>Astronomy and Astrophysics</i> , 2019, 630, A37.	2.1	21
98	Impact of a cometary outburst on its ionosphere. <i>Astronomy and Astrophysics</i> , 2017, 607, A34.	2.1	21
99	Rosetta and Mars Express observations of the influence of high solar wind pressure on the Martian plasma environment. <i>Annales Geophysicae</i> , 2009, 27, 4533-4545.	0.6	21
100	Source location of the wedge-like dispersed ring current in the morning sector during a substorm. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	20
101	Investigation of the Influence of Magnetic Anomalies on Ion Distributions at Mars. <i>Space Science Reviews</i> , 2007, 126, 355-372.	3.7	20
102	O <sup>+</sup> heating associated with strong wave activity in the high altitude cusp and mantle. <i>Annales Geophysicae</i> , 2011, 29, 931-944.	0.6	20
103	IMF dependence of the azimuthal direction of earthward magnetotail fast flows. <i>Geophysical Research Letters</i> , 2013, 40, 5598-5604.	1.5	20
104	O <sup>+</sup> Escape During the Extreme Space Weather Event of 4 <sup>th</sup> 10 September 2017. <i>Space Weather</i> , 2018, 16, 1363-1376.	1.3	20
105	Transients in oxygen outflow above the polar cap as observed by the Cluster spacecraft. <i>Annales Geophysicae</i> , 2008, 26, 3365-3373.	0.6	19
106	Backscattered solar wind protons by Phobos. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	19
107	A statistical study on O <sup>+</sup> flux in the dayside magnetosheath. <i>Annales Geophysicae</i> , 2013, 31, 1005-1010.	0.6	19
108	Plasma waves confined to the diamagnetic cavity of comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S84-S92.	1.6	19

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109	Dynamic unmagnetized plasma in the diamagnetic cavity around comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 475, 4140-4147.	1.6	19
110	MAVEN Observations of Periodic Low-altitude Plasma Clouds at Mars. <i>Astrophysical Journal Letters</i> , 2021, 922, L33.	3.0	19
111	Magnetic forces associated with bursty bulk flows in Earth's magnetotail. <i>Geophysical Research Letters</i> , 2015, 42, 3122-3128.	1.5	18
112	Azimuthal velocity shear within an Earthward fast flow – further evidence for magnetotail untwisting?. <i>Annales Geophysicae</i> , 2015, 33, 245-255.	0.6	18
113	Response of magnetotail twisting to variations in IMF $B_y$ : A THEMIS case study 1–2 January 2009. <i>Geophysical Research Letters</i> , 2016, 43, 7822-7830.	1.5	18
114	Oxygen energization by localized perpendicular electric fields at the cusp boundary. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	17
115	Spatiotemporal features of the auroral acceleration region as observed by Cluster. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	17
116	Inverted $\nabla V$ and low energy broadband electron acceleration features of multiple auroras within a large scale surge. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5543-5552.	0.8	17
117	$\nabla V$ transport in the dayside magnetosheath and its dependence on the IMF direction. <i>Annales Geophysicae</i> , 2015, 33, 301-307.	0.6	17
118	A new height for the summer mesopause: Antarctica, December 2007. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	16
119	The root of a comet tail: Rosetta ion observations at comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2018, 616, A21.	2.1	16
120	Average cometary ion flow pattern in the vicinity of comet 67P from moment data. <i>Monthly Notices of the Royal Astronomical Society</i> , 2020, 498, 5263-5272.	1.6	16
121	Observations of oxygen ions in the dayside magnetosheath associated with southward IMF. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	15
122	Magnetosphere-ionosphere coupling of global Pi2 pulsations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 2717-2739.	0.8	14
123	Cold Ion Outflow Modulated by the Solar Wind Energy Input and Tilt of the Geomagnetic Dipole. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,658.	0.8	14
124	Energy conversion in cometary atmospheres. <i>Astronomy and Astrophysics</i> , 2018, 616, A81.	2.1	14
125	Proton Temperature Anisotropies in the Plasma Environment of Venus. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3312-3330.	0.8	14
126	Flow pattern of accelerated cometary ions inside and outside the diamagnetic cavity of comet 67P/Churyumov-Gerasimenko. <i>Astronomy and Astrophysics</i> , 2019, 630, A43.	2.1	14



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127	Solar wind charge exchange in cometary atmospheres. <i>Astronomy and Astrophysics</i> , 2019, 630, A35.	2.1	14
128	Scaling behavior of auroral luminosity fluctuations observed by Auroral Large Imaging System (ALIS). <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	13
129	Simultaneous measurements of Martian plasma boundaries by Rosetta and Mars Express. <i>Planetary and Space Science</i> , 2009, 57, 1085-1096.	0.9	13
130	Solar cycle variation of ion escape from Mars. <i>Icarus</i> , 2023, 393, 114610.	1.1	13
131	Response of polar mesosphere summer echoes to geomagnetic disturbances in the Southern and Northern Hemispheres: the importance of nitric oxide. <i>Annales Geophysicae</i> , 2013, 31, 333-347.	0.6	12
132	Energy-angle dispersion of accelerated heavy ions at 67P/Churyumov-Gerasimenko: implication in the mass-loading mechanism. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S339-S345.	1.6	12
133	Hybrid modeling of cometary plasma environments. <i>Astronomy and Astrophysics</i> , 2019, 630, A45.	2.1	12
134	Cluster multipoint study of the acceleration potential pattern and electrodynamics of an auroral surge and its associated horn arc. <i>Journal of Geophysical Research</i> , 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. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3951-3962.	0.8	11
136	Oxygen ion response to proton bursty bulk flows. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7535-7546.	0.8	11
137	Current sheets in comet 67P/Churyumov-Gerasimenko's coma. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3308-3321.	0.8	11
138	Plasma density structures at comet 67P/Churyumov-Gerasimenko. <i>Monthly Notices of the Royal Astronomical Society</i> , 2018, 477, 1296-1307.	1.6	11
139	Solar wind charge exchange in cometary atmospheres. <i>Astronomy and Astrophysics</i> , 2019, 630, A36.	2.1	11
140	Numerical experiments on plasmoids entering a transverse magnetic field. <i>Physics of Plasmas</i> , 2009, 16, 112901.	0.7	10
141	Oxygen ion energization observed at high altitudes. <i>Annales Geophysicae</i> , 2010, 28, 907-916.	0.6	10
142	Reduced proton and alpha particle precipitations at Mars during solar wind pressure pulses: Mars Express results. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3421-3429.	0.8	10
143	Quantification of the total ion transport in the near-Earth plasma sheet. <i>Annales Geophysicae</i> , 2017, 35, 869-877.	0.6	10
144	The Oxygen Ion Circulation in The Outer Terrestrial Magnetosphere and Its Dependence on Geomagnetic Activity. <i>Geophysical Research Letters</i> , 2018, 45, 12,669.	1.5	10

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145	Mass Composition of the Escaping Flux at Mars: MEX Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8806-8822.	0.8	10
146	Unusually high magnetic fields in the coma of 67P/Churyumov-Gerasimenko during its high-activity phase. <i>Astronomy and Astrophysics</i> , 2019, 630, A38.	2.1	10
147	Acceleration of ions and nano dust at a comet in the solar wind. <i>Planetary and Space Science</i> , 2015, 119, 13-23.	0.9	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. <i>Journal of Physics: Conference Series</i> , 2015, 642, 012005.	0.3	9
149	Relative outflow enhancements during major geomagnetic storms – Cluster observations. <i>Annales Geophysicae</i> , 2017, 35, 1341-1352.	0.6	9
150	Warm protons at comet 67P/Churyumov-Gerasimenko – implications for the infant bow shock. <i>Annales Geophysicae</i> , 2021, 39, 379-396.	0.6	9
151	Plasma densities, flow, and solar EUV flux at comet 67P. <i>Astronomy and Astrophysics</i> , 2021, 653, A128.	2.1	9
152	Cluster observations of hot He <sup>+</sup> events in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 2706-2716.	0.8	8
153	Low-frequency oscillatory flow signatures and high-speed flows in the Earth's magnetotail. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7042-7056.	0.8	8
154	Momentum and Pressure Balance of a Comet Ionosphere. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088666.	1.5	8
155	Ion bulk speeds and temperatures in the diamagnetic cavity of comet 67P from RPC-ICA measurements. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 503, 2733-2745.	1.6	8
156	On the field-aligned currents in the vicinity of prenoon auroral arcs. <i>Geophysical Research Letters</i> , 2005, 32, n/a-n/a.	1.5	7
157	Low-altitude electron acceleration due to multiple flow bursts in the magnetotail. <i>Geophysical Research Letters</i> , 2014, 41, 777-784.	1.5	7
158	The Convective Electric Field Influence on the Cold Plasma and Diamagnetic Cavity of Comet 67P. <i>Astronomical Journal</i> , 2019, 158, 71.	1.9	7
159	Polarisation of a small-scale cometary plasma environment. <i>Astronomy and Astrophysics</i> , 2019, 631, A174.	2.1	7
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