Hans Nilsson

List of Publications by Year
in descending order

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195	5,686	66343	123424
papers	citations	42 h-index	61 g-index

227	227	227	2538
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Solar cycle variation of ion escape from Mars. Icarus, 2023, 393, 114610.	2.5	13
2	Cometary plasma science. Experimental Astronomy, 2022, 54, 1129-1167.	3.7	3
3	Ion acoustic waves near a comet nucleus: Rosetta observations at comet 67P/Churyumovâ€“Gerasimenko. Annales Geophysicae, 2021, 39, 53-68.	1.6	3
4	SERENA: Particle Instrument Suite for Determining the Sun-Mercury Interaction from BepiColombo. Space Science Reviews, 2021, 217, 11.	8.1	26
5	Global Venusâ€“Solar Wind Coupling and Oxygen Ion Escape. Geophysical Research Letters, 2021, 48, e2020GL091213.	4.0	6
6	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
7	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
8	Warm protons at comet 67P/Churyumovâ€“Gerasimenko â€“ implications for the infant bow shock. Annales Geophysicae, 2021, 39, 379-396.	1.6	9
9	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
10	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
11	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
12	Plasma densities, flow, and solar EUV flux at comet 67P. Astronomy and Astrophysics, 2021, 653, A128.	5.1	9
13	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
14	MAVEN Observations of Periodic Low-altitude Plasma Clouds at Mars. Astrophysical Journal Letters, 2021, 922, L33.	8.3	19
15	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
16	Momentum and Pressure Balance of a Comet Ionosphere. Geophysical Research Letters, 2020, 47, e2020GL088666.	4.0	8
17	The Venusian Atmospheric Oxygen Ion Escape: Extrapolation to the Early Solar System. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006336.	3.6	25
18	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

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19	Solar wind charge exchange in cometary atmospheres. Astronomy and Astrophysics, 2020, 640, C3.	5.1	4
20	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
21	The Convective Electric Field Influence on the Cold Plasma and Diamagnetic Cavity of Comet 67P. Astronomical Journal, 2019, 158, 71.	4.7	7
22	Solar wind charge exchange in cometary atmospheres. Astronomy and Astrophysics, 2019, 630, A36.	5.1	11
23	Electron acceleration at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A40.	5.1	4
24	Earth atmospheric loss through the plasma mantle and its dependence on solar wind parameters. Earth, Planets and Space, 2019, 71, .	2.5	21
25	Hybrid modeling of cometary plasma environments. Astronomy and Astrophysics, 2019, 630, A45.	5.1	12
26	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
27	Proton Temperature Anisotropies in the Plasma Environment of Venus. Journal of Geophysical Research: Space Physics, 2019, 124, 3312-3330.	2.4	14
28	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
29	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
30	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
31	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
32	Solar wind charge exchange in cometary atmospheres. Astronomy and Astrophysics, 2019, 630, A37.	5.1	21
33	Polarisation of a small-scale cometary plasma environment. Astronomy and Astrophysics, 2019, 631, A174.	5.1	7
34	Solar wind charge exchange in cometary atmospheres. Astronomy and Astrophysics, 2019, 630, A35.	5.1	14
35	Dynamic field line draping at comet 67P/Churyumov-Gerasimenko during the Rosetta dayside excursion. Astronomy and Astrophysics, 2019, 630, A44.	5.1	4
36	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

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37	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
38	Solar wind dynamics around a comet. Astronomy and Astrophysics, 2018, 620, A35.	5.1	23
39	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
40	Plasma density structures at comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1296-1307.	4.4	11
41	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
42	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
43	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
44	The infant bow shock: a new frontier at a weak activity comet. Astronomy and Astrophysics, 2018, 619, L2.	5.1	32
45	Mass Composition of the Escaping Flux at Mars: MEX Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 8806-8822.	2.4	10
46	Size of a plasma cloud matters. Astronomy and Astrophysics, 2018, 616, A50.	5.1	26
47	Ionospheric Response Observed by EISCAT During the 6â€“8 September 2017 Space Weather Event: Overview. Space Weather, 2018, 16, 1437-1450.	3.7	38
48	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
49	Estimating the Kinetic Energy Budget of the Polar Wind Outflow. Journal of Geophysical Research: Space Physics, 2018, 123, 7917-7929.	2.4	5
50	O⁺ Escape During the Extreme Space Weather Event of 4â€“10 September 2017. Space Weather, 2018, 16, 1363-1376.	3.7	20
51	On the origin of molecular oxygen in cometary comae. Nature Communications, 2018, 9, 2580.	12.8	22
52	Why an intrinsic magnetic field does not protect a planet against atmospheric escape. Astronomy and Astrophysics, 2018, 614, L3.	5.1	69
53	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
54	The root of a comet tail: Rosetta ion observations at comet 67P/Churyumovâ€“Gerasimenko. Astronomy and Astrophysics, 2018, 616, A21.	5.1	16

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55	Energy conversion in cometary atmospheres. Astronomy and Astrophysics, 2018, 616, A81.	5.1	14
56	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
57	Current sheets in comet 67P/Churyumovâ€Gerasimenko's coma. Journal of Geophysical Research: Space Physics, 2017, 122, 3308-3321.	2.4	11
58	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
59	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
60	Ion acoustic waves at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2017, 600, A3.	5.1	28
61	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
62	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
63	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
64	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
65	Global Marsâ€solar wind coupling and ion escape. Journal of Geophysical Research: Space Physics, 2017, 122, 8051-8062.	2.4	43
66	Hybrid modelling of cometary plasma environments. Astronomy and Astrophysics, 2017, 604, A73.	5.1	37
67	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 9.9ÂAU. Journal of Geophysical Research: Space Physics, 2017, 122, 7865-7890.	2.4	87
68	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
69	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
70	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
71	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
72	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

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73	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
74	Relative outflow enhancements during major geomagnetic storms â€“ Cluster observations. Annales Geophysicae, 2017, 35, 1341-1352.	1.6	9
75	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
76	Quantification of the total ion transport in the near-Earth plasma sheet. Annales Geophysicae, 2017, 35, 869-877.	1.6	10
77	Measurements of the electrostatic potential of Rosetta at comet 67P. Monthly Notices of the Royal Astronomical Society, 2017, 469, S568-S581.	4.4	39
78	Impact of a cometary outburst on its ionosphere. Astronomy and Astrophysics, 2017, 607, A34.	5.1	21
79	Mass-loading, pile-up, and mirror-mode waves at comet 67P/Churyumov-Gerasimenko. Annales Geophysicae, 2016, 34, 1-15.	1.6	46
80	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
81	First detection of a diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 588, A24.	5.1	95
82	The atmosphere of comet 67P/Churyumov-Gerasimenko diagnosed by charge-exchanged solar wind alpha particles. Astronomy and Astrophysics, 2016, 587, A154.	5.1	33
83	Mass loading at 67P/Churyumovâ€Gerasimenko: A case study. Geophysical Research Letters, 2016, 43, 1411-1418.	4.0	58
84	Atmospheric escape from unmagnetized bodies. Journal of Geophysical Research E: Planets, 2016, 121, 2364-2385.	3.6	44
85	Solar wind interaction with comet 67P: Impacts of corotating interaction regions. Journal of Geophysical Research: Space Physics, 2016, 121, 949-965.	2.4	33
86	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
87	Oxygen ion response to proton bursty bulk flows. Journal of Geophysical Research: Space Physics, 2016, 121, 7535-7546.	2.4	11
88	Response of magnetotail twisting to variations in IMF B_y: A THEMIS case study 1â€“2 January 2009. Geophysical Research Letters, 2016, 43, 7822-7830.	4.0	18
89	Ionospheric plasma of comet 67P probed byRosettaat 3Âau from the Sun. Monthly Notices of the Royal Astronomical Society, 2016, 462, S331-S351.	4.4	75
90	CME impact on comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S45-S56.	4.4	42

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91	O + and H + above the polar cap: Observations and semikinetic simulations. Journal of Geophysical Research: Space Physics, 2016, 121, 459-474.	2.4	2
92	Effects of the crustal magnetic fields on the Martian atmospheric ion escape rate. Geophysical Research Letters, 2016, 43, 10,574.	4.0	34
93	Mass-loading of the solar wind at 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 596, A42.	5.1	38
94	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
95	Foreshock ions observed behind the Martian bow shock. Planetary and Space Science, 2016, 127, 15-32.	1.7	1
96	Magnetic forces associated with bursty bulk flows in Earth's magnetotail. Geophysical Research Letters, 2015, 42, 3122-3128.	4.0	18
97	Spatial distribution of lowâ€energy plasma around comet 67P/CG from Rosetta measurements. Geophysical Research Letters, 2015, 42, 4263-4269.	4.0	74
98	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
99	Cold ion escape from the Martian ionosphere. Planetary and Space Science, 2015, 119, 92-102.	1.7	26
100	Acceleration of ions and nano dust at a comet in the solar wind. Planetary and Space Science, 2015, 119, 13-23.	1.7	9
101	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
102	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
103	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
104	Observation of a new type of low-frequency waves at comet 67P/Churyumov-Gerasimenko. Annales Geophysicae, 2015, 33, 1031-1036.	1.6	66
105	Evolution of the ion environment of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A20.	5.1	76
106	Birth of a comet magnetosphere: A spring of water ions. Science, 2015, 347, aaa0571.	12.6	107
107	Proton and alpha particle precipitation onto the upper atmosphere of Venus. Planetary and Space Science, 2015, 113-114, 369-377.	1.7	22
108	O⁺ transport in the dayside magnetosheath and its dependence on the IMF direction. Annales Geophysicae, 2015, 33, 301-307.	1.6	17

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109	Azimuthal velocity shear within an Earthward fast flow â€“ further evidence for magnetotail untwisting?. Annales Geophysicae, 2015, 33, 245-255.	1.6	18
110	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
111	O⁺ and H⁺ ion heat fluxes at high altitudes and high latitudes. Annales Geophysicae, 2014, 32, 1043-1057.	1.6	1
112	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
113	Cluster observations of hot He⁺ events in the inner magnetosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 2706-2716.	2.4	8
114	Magnetosphereâ€ionosphere coupling of global Pi2 pulsations. Journal of Geophysical Research: Space Physics, 2014, 119, 2717-2739.	2.4	14
115	Lowâ€altitude electron acceleration due to multiple flow bursts in the magnetotail. Geophysical Research Letters, 2014, 41, 777-784.	4.0	7
116	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
117	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
118	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
119	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
120	Hot and cold ion outflow: Observations and implications for numerical models. Journal of Geophysical Research: Space Physics, 2013, 118, 105-117.	2.4	29
121	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
122	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
123	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
124	Solar cycle effects on the ion escape from Mars. Geophysical Research Letters, 2013, 40, 6028-6032.	4.0	58
125	A statistical study on O⁺ flux in the dayside magnetosheath. Annales Geophysicae, 2013, 31, 1005-1010.	1.6	19
126	IMF dependence of the azimuthal direction of earthward magnetotail fast flows. Geophysical Research Letters, 2013, 40, 5598-5604.	4.0	20

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127	Oxygen ion energization by waves in the high altitude cusp and mantle. Annales Geophysicae, 2012, 30, 1309-1314.	1.6	4
128	Spatial characteristics of wave-like structures in diffuse aurora obtained using optical observations. Annales Geophysicae, 2012, 30, 1693-1701.	1.6	4
129	Plasma penetration of the dayside magnetopause. Physics of Plasmas, 2012, 19, .	1.9	33
130	Hot and cold ion outflow: Spatial distribution of ion heating. Journal of Geophysical Research, 2012, 117, .	3.3	48
131	Ion distributions in the vicinity of Mars: Signatures of heating and acceleration processes. Earth, Planets and Space, 2012, 64, 135-148.	2.5	47
132	The interaction between the Moon and the solar wind. Earth, Planets and Space, 2012, 64, 237-245.	2.5	80
133	A case study of proton precipitation at Mars: Mars Express observations and hybrid simulations. Journal of Geophysical Research, 2012, 117, .	3.3	28
134	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
135	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
136	Localized density enhancements in the magnetosheath: Threeâ€dimensional morphology and possible importance for impulsive penetration. Journal of Geophysical Research, 2012, 117, .	3.3	52
137	Estimating the capture and loss of cold plasma from ionospheric outflow. Journal of Geophysical Research, 2012, 117, .	3.3	52
138	Observations of oxygen ions in the dayside magnetosheath associated with southward IMF. Journal of Geophysical Research, 2012, 117, .	3.3	15
139	On the relation between plasma escape and the Martian crustal magnetic field. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	49
140	Observational evidence of alphaâ€particle capture at Mars. Geophysical Research Letters, 2011, 38, .	4.0	32
141	Spatiotemporal features of the auroral acceleration region as observed by Cluster. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	17
142	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
143	Atmospheric erosion of Venus during stormy space weather. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	60
144	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

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145	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
146	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
147	Heavy ion escape from Mars, influence from solar wind conditions and crustal magnetic fields. Icarus, 2011, 215, 475-484.	2.5	114
148	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
149	O⁺ heating associated with strong wave activity in the high altitude cusp and mantle. Annales Geophysicae, 2011, 29, 931-944.	1.6	20
150	A comparison of global models for the solar wind interaction with Mars. Icarus, 2010, 206, 139-151.	2.5	108
151	Ion escape from Mars as a function of solar wind conditions: A statistical study. Icarus, 2010, 206, 40-49.	2.5	72
152	Centrifugal acceleration in the magnetotail lobes. Annales Geophysicae, 2010, 28, 569-576.	1.6	47
153	Oxygen ion energization observed at high altitudes. Annales Geophysicae, 2010, 28, 907-916.	1.6	10
154	Pumping out the atmosphere of Mars through solar wind pressure pulses. Geophysical Research Letters, 2010, 37, .	4.0	88
155	Oxygen energization by localized perpendicular electric fields at the cusp boundary. Geophysical Research Letters, 2010, 37, .	4.0	17
156	Magnetic reconnection and cold plasma at the magnetopause. Geophysical Research Letters, 2010, 37, .	4.0	35
157	Backscattered solar wind protons by Phobos. Journal of Geophysical Research, 2010, 115, .	3.3	19
158	Numerical experiments on plasmoids entering a transverse magnetic field. Physics of Plasmas, 2009, 16, 112901.	1.9	10
159	Atmospheric origin of cold ion escape from Mars. Geophysical Research Letters, 2009, 36, .	4.0	49
160	Simultaneous measurements of Martian plasma boundaries by Rosetta and Mars Express. Planetary and Space Science, 2009, 57, 1085-1096.	1.7	13
161	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
162	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

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163	Solar forcing and planetary ion escape from Mars. Geophysical Research Letters, 2008, 35, .	4.0	77
164	3D MHD reconnection model coupled with Cluster multiâ€spacecraft data. Journal of Geophysical Research, 2008, 113, .	3.3	1
165	A cometâ€like escape of ionospheric plasma from Mars. Geophysical Research Letters, 2008, 35, .	4.0	94
166	A new height for the summer mesopause: Antarctica, December 2007. Geophysical Research Letters, 2008, 35, .	4.0	16
167	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
168	Scaling behavior of auroral luminosity fluctuations observed by Auroral Large Imaging System (ALIS). Journal of Geophysical Research, 2008, 113, .	3.3	13
169	Shear driven waves in the induced magnetosphere of Mars. Plasma Physics and Controlled Fusion, 2008, 50, 074018.	2.1	22
170	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
171	Simultaneous observations of Polar Mesosphere Summer Echoes at two different latitudes in Antarctica. Annales Geophysicae, 2008, 26, 3783-3792.	1.6	6
172	Transients in oxygen outflow above the polar cap as observed by the Cluster spacecraft. Annales Geophysicae, 2008, 26, 3365-3373.	1.6	19
173	Characteristics of terrestrial foreshock ULF waves: Cluster observations. Journal of Geophysical Research, 2007, 112, .	3.3	28
174	Dynamics and electric currents of morningside Sun-aligned auroral arcs. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	21
175	Polar mesosphere summer echoes at Wasa, Antarctica (73Â°S): First observations and comparison with 68Â°N. Geophysical Research Letters, 2007, 34, .	4.0	39
176	Investigation of the Influence of Magnetic Anomalies on Ion Distributions at Mars. Space Science Reviews, 2007, 126, 355-372.	8.1	20
177	RPC-ICA: The Ion Composition Analyzer of the Rosetta Plasma Consortium. Space Science Reviews, 2007, 128, 671-695.	8.1	104
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