A I Eriksson

List of Publications by Year
in descending order

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204 papers	9,794 citations	36303 51 h-index	43889 91 g-index
223 all docs	223 docs citations	223 times ranked	3822 citing authors

#	Article	IF	Citations
1	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. Space Science Reviews, 2015, 195, 3-48.	8.1	563
2	The Spin-Plane Double Probe Electric Field Instrument for MMS. Space Science Reviews, 2016, 199, 137-165.	8.1	543
3	Freja multiprobe observations of electrostatic solitary structures. Geophysical Research Letters, 1994, 21, 1827-1830.	4.0	392
4	The FIELDS Instrument Suite on MMS: Scientific Objectives, Measurements, and Data Products. Space Science Reviews, 2016, 199, 105-135.	8.1	390
5	First results of electric field and density observations by Cluster EFW based on initial months of operation. Annales Geophysicae, 2001, 19, 1219-1240.	1.6	273
6	Observation of kinetic AlfvÃ©n waves by the FREJA spacecraft. Geophysical Research Letters, 1994, 21, 1847-1850.	4.0	271
7	Loss of the Martian atmosphere to space: Present-day loss rates determined from MAVEN observations and integrated loss through time. Icarus, 2018, 315, 146-157.	2.5	216
8	Ion energization mechanisms at 1700 km in the auroral region. Journal of Geophysical Research, 1998, 103, 4199-4222.	3.3	197
9	The Langmuir Probe and Waves (LPW) Instrument for MAVEN. Space Science Reviews, 2015, 195, 173-198.	8.1	183
10	Thermal ion imagers and Langmuir probes in the Swarm electric field instruments. Journal of Geophysical Research: Space Physics, 2017, 122, 2655-2673.	2.4	183
11	Cassini Measurements of Cold Plasma in the Ionosphere of Titan. Science, 2005, 308, 986-989.	12.6	178
12	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. Science, 2015, 350, aad0210.	12.6	166
13	RPC: The Rosetta Plasma Consortium. Space Science Reviews, 2007, 128, 629-647.	8.1	135
14	Electron density estimations derived from spacecraft potential measurements on Cluster in tenuous plasma regions. Journal of Geophysical Research, 2008, 113, .	3.3	135
15	Broadband ELF plasma emission during auroral energization: 1. Slow ion acoustic waves. Journal of Geophysical Research, 1998, 103, 4343-4375.	3.3	119
16	RPC-LAP: The Rosetta Langmuir Probe Instrument. Space Science Reviews, 2007, 128, 729-744.	8.1	116
17	Dayside electron temperature and density profiles at Mars: First results from the MAVEN Langmuir probe and waves instrument. Geophysical Research Letters, 2015, 42, 8846-8853.	4.0	116
18	Freja observatons of correlated small-scale density depletions and enhanced lower hybrid waves. Geophysical Research Letters, 1994, 21, 1843-1846.	4.0	111

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19	Birth of a comet magnetosphere: A spring of water ions. Science, 2015, 347, aaa0571.	12.6	107
20	Detection of dusty plasma near the E-ring of Saturn. Planetary and Space Science, 2009, 57, 1795-1806.	1.7	104
21	RPC-MIP: the Mutual Impedance Probe of the Rosetta Plasma Consortium. Space Science Reviews, 2007, 128, 713-728.	8.1	98
22	Earthâ€™s ionospheric outflow dominated by hidden cold plasma. Nature Geoscience, 2009, 2, 24-27.	12.9	97
23	On the amount of heavy molecular ions in Titan's ionosphere. Planetary and Space Science, 2009, 57, 1857-1865.	1.7	96
24	First detection of a diamagnetic cavity at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2016, 588, A24.	5.1	95
25	Statistical analysis of the location of the Martian magnetic pileup boundary and bow shock and the influence of crustal magnetic fields. Journal of Geophysical Research, 2008, 113, .	3.3	93
26	Survey of cold ionospheric outflows in the magnetotail. Annales Geophysicae, 2009, 27, 3185-3201.	1.6	92
27	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. Science, 2015, 350, aad0459.	12.6	90
28	Dusty plasma in the vicinity of Enceladus. Journal of Geophysical Research, 2011, 116, .	3.3	89
29	On the importance of highâ€altitude lowâ€frequency electric fluctuations for the escape of ionospheric ions. Journal of Geophysical Research, 1990, 95, 5905-5919.	3.3	87
30	Observations of ion acoustic fluctuations in the auroral topside ionosphere by the FREJA S/C. Geophysical Research Letters, 1994, 21, 1835-1838.	4.0	82
31	The Solar Orbiter Radio and Plasma Waves (RPW) instrument. Astronomy and Astrophysics, 2020, 642, A12.	5.1	80
32	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
33	Freja observations of electromagnetic ion cyclotron ELF waves and transverse oxygen ion acceleration on auroral field lines. Geophysical Research Letters, 1994, 21, 1855-1858.	4.0	76
34	Evolution of the ion environment of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2015, 583, A20.	5.1	76
35	Ion cyclotron heating in the dayside magnetosphere. Journal of Geophysical Research, 1996, 101, 13179-13193.	3.3	75
36	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

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37	Spatial distribution of lowâ€energy plasma around comet 67P/CG from Rosetta measurements. Geophysical Research Letters, 2015, 42, 4263-4269.	4.0	74
38	The electron density of Saturn's magnetosphere. Annales Geophysicae, 2009, 27, 2971-2991.	1.6	73
39	The inner magnetosphere of Saturn: Cassini RPWS cold plasma results from the first encounter. Geophysical Research Letters, 2005, 32, .	4.0	67
40	SWARM observations of equatorial electron densities and topside GPS track losses. Geophysical Research Letters, 2015, 42, 2088-2092.	4.0	66
41	Observation of a new type of low-frequency waves at comet 67P/Churyumov-Gerasimenko. Annales Geophysicae, 2015, 33, 1031-1036.	1.6	66
42	Electric field measurements on Cluster: comparing the double-probe and electron drift techniques. Annales Geophysicae, 2006, 24, 275-289.	1.6	64
43	Lower hybrid wave cavities detected by the FREJA satellite. Journal of Geophysical Research, 1996, 101, 5299-5316.	3.3	63
44	The first in situ electron temperature and density measurements of the Martian nightside ionosphere. Geophysical Research Letters, 2015, 42, 8854-8861.	4.0	62
45	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
46	Characterizing cometary electrons with kappa distributions. Journal of Geophysical Research: Space Physics, 2016, 121, 7407-7422.	2.4	62
47	Low-energy (order 10 eV) ion flow in the magnetotail lobes inferred from spacecraft wake observations. Geophysical Research Letters, 2006, 33, .	4.0	61
48	Wake formation behind positively charged spacecraft in flowing tenuous plasmas. Physics of Plasmas, 2006, 13, 062904.	1.9	61
49	The 2016 Feb 19 outburst of comet 67P/CG: an ESA Rosetta multi-instrument study. Monthly Notices of the Royal Astronomical Society, 2016, 462, S220-S234.	4.4	60
50	A statistical survey of auroral solitary waves and weak double layers: 1. Occurrence and net voltage. Journal of Geophysical Research, 1993, 98, 15521-15530.	3.3	58
51	Electrostatic structure around spacecraft in tenuous plasmas. Journal of Geophysical Research, 2007, 112, .	3.3	55
52	Estimating the capture and loss of cold plasma from ionospheric outflow. Journal of Geophysical Research, 2012, 117, .	3.3	52
53	Electron and Ion Dynamics of the Solar Wind Interaction with a Weakly Outgassing Comet. Physical Review Letters, 2017, 118, 205101.	7.8	52
54	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

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55	Transverse ion energization and wave emissions observed by the Freja satellite. Geophysical Research Letters, 1994, 21, 1915-1918.	4.0	50
56	Evolution of the plasma environment of comet 67P from spacecraft potential measurements by the Rosetta Langmuir probe instrument. Geophysical Research Letters, 2015, 42, 10,126.	4.0	49
57	Suprathermal electrons near the nucleus of comet 67P/Churyumovâ€Gerasimenko at 3â€‰AU: Model comparisons with Rosetta data. Journal of Geophysical Research: Space Physics, 2016, 121, 5815-5836.	2.4	49
58	Hot and cold ion outflow: Spatial distribution of ion heating. Journal of Geophysical Research, 2012, 117, .	3.3	48
59	Enhanced O₂⁺ loss at Mars due to an ambipolar electric field from electron heating. Journal of Geophysical Research: Space Physics, 2016, 121, 4668-4678.	2.4	48
60	Observations of an upward-directed electron beam with the perpendicular temperature of the cold ionosphere. Geophysical Research Letters, 1995, 22, 2103-2106.	4.0	47
61	Centrifugal acceleration in the magnetotail lobes. Annales Geophysicae, 2010, 28, 569-576.	1.6	47
62	Outflow of lowâ€energy ions and the solar cycle. Journal of Geophysical Research: Space Physics, 2015, 120, 1072-1085.	2.4	47
63	Mass-loading, pile-up, and mirror-mode waves at comet 67P/Churyumov-Gerasimenko. Annales Geophysicae, 2016, 34, 1-15.	1.6	46
64	On the ionospheric source region of cold ion outflow. Geophysical Research Letters, 2012, 39, .	4.0	45
65	Control of the topside Martian ionosphere by crustal magnetic fields. Journal of Geophysical Research: Space Physics, 2015, 120, 3042-3058.	2.4	45
66	Statistical analysis of suprathermal electron drivers at 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S312-S322.	4.4	45
67	Freja observations of heating and precipitation of positive ions. Geophysical Research Letters, 1994, 21, 1911-1914.	4.0	44
68	CME impact on comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S45-S56.	4.4	42
69	Dust observations at orbital altitudes surrounding Mars. Science, 2015, 350, aad0398.	12.6	41
70	Freja studies of the current-voltage relation in substorm-related events. Journal of Geophysical Research, 1998, 103, 4285-4301.	3.3	40
71	In situ measurements of Saturnâ€™s ionosphere show that it is dynamic and interacts with the rings. Science, 2018, 359, 66-68.	12.6	40
72	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

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73	Measurements of the electrostatic potential of Rosetta at comet 67P. Monthly Notices of the Royal Astronomical Society, 2017, 469, S568-S581.	4.4	39
74	Ion Velocity and Electron Temperature Inside and Around the Diamagnetic Cavity of Comet 67P. Journal of Geophysical Research: Space Physics, 2018, 123, 5870-5893.	2.4	39
75	Cluster PEACE observations of electrons of spacecraft origin. Annales Geophysicae, 2001, 19, 1721-1730.	1.6	39
76	Plasma source and loss at comet 67P during the Rosetta mission. Astronomy and Astrophysics, 2018, 618, A77.	5.1	38
77	Statistics of the lower hybrid wave cavities detected by the FREJA satellite. Journal of Geophysical Research, 1998, 103, 26633-26647.	3.3	36
78	A 1D Model of Radial Ion Motion Interrupted by Ionâ€“Neutral Interactionsin a Cometary Coma. Astronomical Journal, 2017, 153, 150.	4.7	36
79	Solar wind interaction with comet 67P: Impacts of corotating interaction regions. Journal of Geophysical Research: Space Physics, 2016, 121, 949-965.	2.4	33
80	Transport of cold ions from the polar ionosphere to the plasma sheet. Journal of Geophysical Research: Space Physics, 2013, 118, 5467-5477.	2.4	32
81	The infant bow shock: a new frontier at a weak activity comet. Astronomy and Astrophysics, 2018, 619, L2.	5.1	32
82	Ionospheric plasma density variations observed at Mars by MAVEN/LPW. Geophysical Research Letters, 2015, 42, 8862-8869.	4.0	32
83	ON THE ELECTRON-TO-NEUTRAL NUMBER DENSITY RATIO IN THE COMA OF COMET 67P/CHURYUMOVâ€“GERASIMENKO: GUIDING EXPRESSION AND SOURCES FOR DEVIATIONS. Astrophysical Journal, 2015, 812, 54.	4.5	31
84	Cavitation of lower hybrid waves in the Earth's ionosphere: A model analysis. Journal of Geophysical Research, 2000, 105, 18519-18535.	3.3	30
85	Lower hybrid cavities in the inner magnetosphere. Geophysical Research Letters, 2003, 30, .	4.0	29
86	Hot and cold ion outflow: Observations and implications for numerical models. Journal of Geophysical Research: Space Physics, 2013, 118, 105-117.	2.4	29
87	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
88	Charging of the Freja Satellite in the Auroral Zone. IEEE Transactions on Plasma Science, 2006, 34, 2038-2045.	1.3	28
89	Ion acoustic waves at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2017, 600, A3.	5.1	28
90	Ion composition at comet 67P near perihelion: Rosetta observations and model-based interpretation. Monthly Notices of the Royal Astronomical Society, 2017, 469, S427-S442.	4.4	28

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91	The occurrence of lower hybrid cavities in the upper ionosphere. Geophysical Research Letters, 1997, 24, 619-622.	4.0	27
92	Multiâ€point electric field measurements of Short Largeâ€Amplitude Magnetic Structures (SLAMS) at the Earth's quasiâ€parallel bow shock. Geophysical Research Letters, 2003, 30, .	4.0	27
93	What high altitude observations tell us about the auroral acceleration: A Cluster/DMSP conjunction. Geophysical Research Letters, 2003, 30, .	4.0	27
94	Saturn's Dusty Ionosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 1679-1697.	2.4	27
95	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
96	Lower hybrid waves at comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S29-S38.	4.4	26
97	Size of a plasma cloud matters. Astronomy and Astrophysics, 2018, 616, A50.	5.1	26
98	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
99	The Influence of Spacecraft Charging on Lowâ€Energy Ion Measurements Made by RPCâ€ICA on Rosetta. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027478.	2.4	26
100	Lower-hybrid wave cavities detected by instrumented spacecrafts. Plasma Physics and Controlled Fusion, 1997, 39, A227-A236.	2.1	25
101	MODEL-OBSERVATION COMPARISONS OF ELECTRON NUMBER DENSITIES IN THE COMA OF 67P/CHURYUMOVâ€“GERASIMENKO DURING 2015 JANUARY. Astronomical Journal, 2016, 152, 59.	4.7	24
102	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
103	Rosetta photoelectron emission and solar ultraviolet flux at comet 67P. Monthly Notices of the Royal Astronomical Society, 2017, 469, S626-S635.	4.4	24
104	First observations of magnetic holes deep within the coma of a comet. Astronomy and Astrophysics, 2018, 618, A114.	5.1	24
105	Cold electrons at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2018, 616, A51.	5.1	24
106	Density fluctuations associated with turbulence and waves. Astronomy and Astrophysics, 2021, 656, A19.	5.1	24
107	Observation of the terrestrial bow shock in quasi-electrostatic subshock regime. Journal of Geophysical Research, 2002, 107, SSH 1-1-SSH 1-9.	3.3	22
108	Observations of auroral broadband emissions by CLUSTER. Geophysical Research Letters, 2003, 30, .	4.0	22

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109	On the origin of molecular oxygen in cometary comae. Nature Communications, 2018, 9, 2580.	12.8	22
110	Building a Weakly Outgassing Comet from a Generalized Ohmâ€™s Law. Physical Review Letters, 2019, 123, 055101.	7.8	21
111	Impact of a cometary outburst on its ionosphere. Astronomy and Astrophysics, 2017, 607, A34.	5.1	21
112	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
113	Near-Earth substorm onset: A coordinated study. Geophysical Research Letters, 1994, 21, 1875-1878.	4.0	20
114	Saturn's Ionosphere: Electron Density Altitude Profiles and Dâ€Ring Interaction From The Cassini Grand Finale. Geophysical Research Letters, 2019, 46, 9362-9369.	4.0	20
115	A statistical survey of auroral solitary waves and weak double layers: 2. Measurement accuracy and ambient plasma density. Journal of Geophysical Research, 1997, 102, 11385-11398.	3.3	19
116	Lower-hybrid cavity density depletions as a result of transverse ion acceleration localized on the gyroradius scale. Journal of Geophysical Research, 2004, 109, .	3.3	19
117	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
118	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
119	Observations of lower hybrid cavities in the inner magnetosphere by the Cluster and Viking satellites. Annales Geophysicae, 2004, 22, 2961-2972.	1.6	18
120	Estimation of cold plasma outflow during geomagnetic storms. Journal of Geophysical Research: Space Physics, 2015, 120, 10,622.	2.4	18
121	Plasma properties of suprathermal electrons near comet 67P/Churyumov-Gerasimenko with Rosetta. Astronomy and Astrophysics, 2019, 630, A42.	5.1	18
122	Ring Shadowing Effects on Saturn's Ionosphere: Implications for Ring Opacity and Plasma Transport. Geophysical Research Letters, 2018, 45, 10,084.	4.0	17
123	A statistical study of ion energization at 1700 km in the auroral region. Annales Geophysicae, 2002, 20, 1943-1958.	1.6	17
124	The Rosetta plasma consortium: Technical realization and scientific aims. Advances in Space Research, 1999, 24, 1149-1158.	2.6	16
125	Plasma regions, charged dust and field-aligned currents near Enceladus. Planetary and Space Science, 2015, 117, 453-469.	1.7	16
126	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

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127	A charging model for the Rosetta spacecraft. Astronomy and Astrophysics, 2020, 642, A43.	5.1	16
128	Observations of oxygen ions in the dayside magnetosheath associated with southward IMF. Journal of Geophysical Research, 2012, 117, .	3.3	15
129	ON THE POSSIBILITY OF SIGNIFICANT ELECTRON DEPLETION DUE TO NANOGRAIN CHARGING IN THE COMA OF COMET 67P/CHURYUMOV-GERASIMENKO NEAR PERIHELION. Astrophysical Journal, 2015, 798, 130.	4.5	15
130	Cold and warm electrons at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 0, , .	5.1	15
131	Sub-kilometer thermal plasma structure near 1750 km altitude in the polar cusp/cleft. Geophysical Research Letters, 1994, 21, 1907-1910.	4.0	14
132	Kilowattâ€level power amplifier in a singleâ€ended architecture at 352ÂMHz. Electronics Letters, 2016, 52, 1552-1554.	1.0	14
133	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
134	Enhanced Escape of Spacecraft Photoelectrons Caused by Langmuir and Upper Hybrid Waves. Journal of Geophysical Research: Space Physics, 2018, 123, 7534-7553.	2.4	14
135	Extremely Lowâ€Frequency Waves Inside the Diamagnetic Cavity of Comet 67P/Churyumovâ€Gerasimenko. Geophysical Research Letters, 2018, 45, 3854-3864.	4.0	14
136	Properties of the singing comet waves in the 67P/Churyumov-Gerasimenko plasma environment as observed by the Rosetta mission. Astronomy and Astrophysics, 2019, 630, A39.	5.1	14
137	Observations of a mix of cold and warm electrons by RPC-MIP at 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2020, 640, A110.	5.1	14
138	Effect of lower hybrid cavities on core plasma observed by Freja. Journal of Geophysical Research, 1998, 103, 4241-4249.	3.3	13
139	Physical interpretation of the PadÃ© approximation of the plasma dispersion function. Journal of Plasma Physics, 2000, 64, 287-296.	2.1	13
140	A statistical study of wave properties and electron density at 1700 km in the auroral region. Journal of Geophysical Research, 2002, 107, SIA 21-1-SIA 21-13.	3.3	13
141	MEFISTO â€“ An electric field instrument for BepiColombo/MMO. Advances in Space Research, 2006, 38, 672-679.	2.6	13
142	Simultaneous measurements of Martian plasma boundaries by Rosetta and Mars Express. Planetary and Space Science, 2009, 57, 1085-1096.	1.7	13
143	Solar wind current sheets and deHoffmann-Teller analysis. First results from Solar Orbiter's DC electric field measurements. Astronomy and Astrophysics, 0, , .	5.1	13
144	In-flight calibration of double-probe electric field measurements on Cluster. Geoscientific Instrumentation, Methods and Data Systems, 2014, 3, 143-151.	1.6	13

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145	The Influence of Varying Spacecraft Potentials and Debye Lengths on In Situ Lowâ€Energy Ion Measurements. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027870.	2.4	12
146	Kinetic electrostatic waves and their association with current structures in the solar wind. Astronomy and Astrophysics, 2021, 656, A23.	5.1	12
147	LINDA â€“ the Astrid-2 Langmuir probe instrument. Annales Geophysicae, 2001, 19, 601-610.	1.6	11
148	Observations of high-plasma density region in the inner coma of 67P/Churyumovâ€“Gerasimenko during early activity. Monthly Notices of the Royal Astronomical Society, 2016, 462, S33-S44.	4.4	11
149	Current sheets in comet 67P/Churyumovâ€Gerasimenko's coma. Journal of Geophysical Research: Space Physics, 2017, 122, 3308-3321.	2.4	11
150	Plasma density structures at comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2018, 477, 1296-1307.	4.4	11
151	Far-ultraviolet aurora identified at comet 67P/Churyumov-Gerasimenko. Nature Astronomy, 2020, 4, 1084-1091.	10.1	11
152	Low-frequency electric field and density fluctuation measurements on Solar Orbiter. Advances in Space Research, 2007, 39, 1502-1509.	2.6	10
153	Simulation of Potential Measurements Around a Photoemitting Spacecraft in a Flowing Plasma. IEEE Transactions on Plasma Science, 2012, 40, 1257-1261.	1.3	10
154	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
155	The Spacecraft Wake: Interference With Electric Field Observations and a Possibility to Detect Cold Ions. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029493.	2.4	9
156	Plasma densities, flow, and solar EUV flux at comet 67P. Astronomy and Astrophysics, 2021, 653, A128.	5.1	9
157	First observations and performance of the RPW instrument on board the Solar Orbiter mission. Astronomy and Astrophysics, 2021, 656, A41.	5.1	9
158	Localization of wave fields in lower hybrid cavities. Annales Geophysicae, 2004, 22, 2951-2959.	1.6	8
159	The detection of energetic electrons with the Cassini Langmuir probe at Saturn. Journal of Geophysical Research, 2012, 117, .	3.3	8
160	Cold Ion Outflow as a Source of Plasma for the Magnetosphere. Geophysical Monograph Series, 2013, , 341-354.	0.1	8
161	Momentum and Pressure Balance of a Comet Ionosphere. Geophysical Research Letters, 2020, 47, e2020GL088666.	4.0	8
162	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

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163	On the current-voltage relationship in auroral breakups and westwards-travelling surges. Annales Geophysicae, 1996, 14, 1265.	1.6	8
164	A Fully Kinetic Perspective of Electron Acceleration around a Weakly Outgassing Comet. Astrophysical Journal Letters, 2020, 889, L33.	8.3	8
165	Excitation of Localized Rotating Waves in Plasma Density Cavities by Scattering of Fast Magnetosonic Waves. Physical Review Letters, 2004, 92, 255002.	7.8	7
166	Earth magnetic field effects on Swarm electric field instrument. Planetary and Space Science, 2012, 73, 145-150.	1.7	7
167	The Evolution of the Electron Number Density in the Coma of Comet 67P at the Location of Rosetta from 2015 November through 2016 March. Astrophysical Journal, 2019, 881, 6.	4.5	7
168	The Convective Electric Field Influence on the Cold Plasma and Diamagnetic Cavity of Comet 67P. Astronomical Journal, 2019, 158, 71.	4.7	7
169	On the ion-neutral coupling in cometary comae. Monthly Notices of the Royal Astronomical Society, 2019, 482, 1937-1941.	4.4	7
170	The MEFISTO and WPT Electric Field Sensors of the Plasma Wave Investigation on the BepiColombo Mio Spacecraft. Space Science Reviews, 2020, 216, 1.	8.1	7
171	Enhancement of electric and magnetic wave fields at density gradients. Annales Geophysicae, 2006, 24, 367-379.	1.6	6
172	Double-Probe Measurements in Cold Tenuous Space Plasma Flows. IEEE Transactions on Plasma Science, 2006, 34, 2071-2077.	1.3	6
173	Solar Illumination Control of the Polar Wind. Journal of Geophysical Research: Space Physics, 2017, 122, 11,468-11,480.	2.4	6
174	Multi-instrument analysis of far-ultraviolet aurora in the southern hemisphere of comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2021, 647, A119.	5.1	6
175	The Spin-Plane Double Probe Electric Field Instrument for MMS. , 2017, , 137-165.		6
176	Implications from secondary emission from neutral impact on Cassini plasma and dust measurements. Monthly Notices of the Royal Astronomical Society, 2022, 515, 2340-2350.	4.4	6
177	Plasma transport along discrete auroral arcs and its contribution to the ionospheric plasma convection. Annales Geophysicae, 2008, 26, 3279-3293.	1.6	5
178	Are Weak Double Layers Important for Auroral Particle Acceleration?. Geophysical Monograph Series, 2013, , 105-112.	0.1	5
179	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
180	Statistical study of electron density turbulence and ion-cyclotron waves in the inner heliosphere: Solar Orbiter observations. Astronomy and Astrophysics, 2021, 656, A16.	5.1	5

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