Mats AndrÃ©

List of Publications by Year
in descending order

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209	11,655	19657 61	36028 97
papers	citations	h-index	g-index

234	234	234	3258
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	In situ evidence of magnetic reconnection in turbulent plasma. Nature Physics, 2007, 3, 235-238.	16.7	333
2	Fermi and betatron acceleration of suprathermal electrons behind dipolarization fronts. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	299
3	Sources of Ion Outflow in the High Latitude Ionosphere. Space Science Reviews, 1997, 80, 1-25.	8.1	298
4	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
5	Cluster observations of an intense normal component of the electric field at a thin reconnecting current sheet in the tail and its role in the shock-like acceleration of the ion fluid into the separatrix region. Journal of Geophysical Research, 2005, 110, .	3.3	249
6	Energetic electron acceleration by unsteady magnetic reconnection. Nature Physics, 2013, 9, 426-430.	16.7	215
7	Ion energization mechanisms at 1700 km in the auroral region. Journal of Geophysical Research, 1998, 103, 4199-4222.	3.3	197
8	Current sheet flapping motion and structure observed by Cluster. Geophysical Research Letters, 2003, 30, .	4.0	196
9	Structure of the Magnetic Reconnection Diffusion Region from Four-Spacecraft Observations. Physical Review Letters, 2004, 93, 105001.	7.8	193
10	Plasma Jet Braking: Energy Dissipation and Nonadiabatic Electrons. Physical Review Letters, 2011, 106, 165001.	7.8	193
11	Intermittent energy dissipation by turbulent reconnection. Geophysical Research Letters, 2017, 44, 37-43.	4.0	176
12	Dipolarization fronts as a consequence of transient reconnection: In situ evidence. Geophysical Research Letters, 2013, 40, 6023-6027.	4.0	168
13	Theories and Observations of Ion Energization and Outflow in the High Latitude Magnetosphere. Space Science Reviews, 1997, 80, 27-48.	8.1	166
14	Electric structure of dipolarization front at subâ€proton scale. Geophysical Research Letters, 2012, 39, .	4.0	160
15	Occurrence rate of earthwardâ€propagating dipolarization fronts. Geophysical Research Letters, 2012, 39, .	4.0	141
16	Pitch angle distribution of suprathermal electrons behind dipolarization fronts: A statistical overview. Journal of Geophysical Research, 2012, 117, .	3.3	136
17	A statistical study of EMIC waves observed by Cluster: 1. Wave properties. Journal of Geophysical Research: Space Physics, 2015, 120, 5574-5592.	2.4	136
18	Electron density estimations derived from spacecraft potential measurements on Cluster in tenuous plasma regions. Journal of Geophysical Research, 2008, 113, .	3.3	135

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19	Early results from the Whisper instrument on Cluster: an overview. Annales Geophysicae, 2001, 19, 1241-1258.	1.6	132
20	Temporal evolution of the electric field accelerating electrons away from the auroral ionosphere. Nature, 2001, 414, 724-727.	27.8	132
21	Evolution of dipolarization in the near-Earth current sheet induced by Earthward rapid flux transport. Annales Geophysicae, 2009, 27, 1743-1754.	1.6	129
22	Lowâ€energy ions: A previously hidden solar system particle population. Geophysical Research Letters, 2012, 39, .	4.0	128
23	Kelvinâ€Helmholtz waves at the Earth's magnetopause: Multiscale development and associated reconnection. Journal of Geophysical Research, 2009, 114, .	3.3	119
24	RPC-LAP: The Rosetta Langmuir Probe Instrument. Space Science Reviews, 2007, 128, 729-744.	8.1	116
25	Energy deposition by AlfvÃ©n waves into the dayside auroral oval: Cluster and FAST observations. Journal of Geophysical Research, 2005, 110, .	3.3	113
26	Whistlerâ€mode waves inside flux pileup region: Structured or unstructured?. Journal of Geophysical Research: Space Physics, 2014, 119, 9089-9100.	2.4	112
27	Freja observatons of correlated small-scale density depletions and enhanced lower hybrid waves. Geophysical Research Letters, 1994, 21, 1843-1846.	4.0	111
28	How to find magnetic nulls and reconstruct field topology with MMS data?. Journal of Geophysical Research: Space Physics, 2015, 120, 3758-3782.	2.4	111
29	Cluster observations of energetic electrons and electromagnetic fields within a reconnecting thin current sheet in the Earth's magnetotail. Journal of Geophysical Research, 2008, 113, .	3.3	109
30	Dispersion surfaces. Journal of Plasma Physics, 1985, 33, 1-19.	2.1	108
31	Lower hybrid waves in the ion diffusion and magnetospheric inflow regions. Journal of Geophysical Research: Space Physics, 2017, 122, 517-533.	2.4	108
32	Observations of Slow Electron Holes at a Magnetic Reconnection Site. Physical Review Letters, 2010, 105, 165002.	7.8	106
33	A statistical study of ion energization mechanisms in the auroral region. Journal of Geophysical Research, 1998, 103, 23459-23473.	3.3	103
34	Active spacecraft potential control for Cluster â€“ implementation and first results. Annales Geophysicae, 2001, 19, 1289-1302.	1.6	100
35	Earthâ€™s ionospheric outflow dominated by hidden cold plasma. Nature Geoscience, 2009, 2, 24-27.	12.9	97
36	Electron acceleration in the reconnection diffusion region: Cluster observations. Geophysical Research Letters, 2012, 39, .	4.0	95

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37	Cluster observations of lower hybrid turbulence within thin layers at the magnetopause. Geophysical Research Letters, 2004, 31, .	4.0	92
38	AlfvÃ©n vortex filaments observed in magnetosheath downstream of a quasi-perpendicular bow shock. Journal of Geophysical Research, 2006, 111, .	3.3	92
39	Survey of cold ionospheric outflows in the magnetotail. Annales Geophysicae, 2009, 27, 3185-3201.	1.6	92
40	Lower Hybrid Drift Waves: Space Observations. Physical Review Letters, 2012, 109, 055001.	7.8	91
41	Ion heating by broadband lowâ€frequency waves in the cusp/cleft. Journal of Geophysical Research, 1990, 95, 20809-20823.	3.3	89
42	Dusty plasma in the vicinity of Enceladus. Journal of Geophysical Research, 2011, 116, .	3.3	89
43	MMS observations of whistler waves in electron diffusion region. Geophysical Research Letters, 2017, 44, 3954-3962.	4.0	89
44	Structure of the separatrix region close to a magnetic reconnection X-line: Cluster observations. Geophysical Research Letters, 2006, 33, .	4.0	88
45	Source processes in the high-latitude ionosphere. Space Science Reviews, 1999, 88, 7-84.	8.1	86
46	Density modulated whistler mode emissions observed near the plasmapause. Geophysical Research Letters, 2002, 29, 36-1-36-4.	4.0	85
47	Formation of Inner Structure of a Reconnection Separatrix Region. Physical Review Letters, 2006, 97, 205003.	7.8	83
48	Cluster observations of an ionâ€scale current sheet in the magnetotail under the presence of a guide field. Journal of Geophysical Research, 2008, 113, .	3.3	80
49	Observations of turbulence within reconnection jet in the presence of guide field. Geophysical Research Letters, 2012, 39, .	4.0	78
50	Local transverse ion energization in and near the polar cusp. Geophysical Research Letters, 1988, 15, 107-110.	4.0	74
51	Spatial distribution of lowâ€energy plasma around comet 67P/CG from Rosetta measurements. Geophysical Research Letters, 2015, 42, 4263-4269.	4.0	74
52	Electrostatic solitary waves and electrostatic waves at the magnetopause. Journal of Geophysical Research: Space Physics, 2016, 121, 3069-3092.	2.4	73
53	Evolution of the lower hybrid drift instability at reconnection jet front. Journal of Geophysical Research: Space Physics, 2015, 120, 2675-2690.	2.4	70
54	Identifying magnetic reconnection events using the FOTE method. Journal of Geophysical Research: Space Physics, 2016, 121, 1263-1272.	2.4	69

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55	Thin electron-scale layers at the magnetopause. Geophysical Research Letters, 2004, 31, .	4.0	68
56	The inner magnetosphere of Saturn: Cassini RPWS cold plasma results from the first encounter. Geophysical Research Letters, 2005, 32, .	4.0	67
57	SWARM observations of equatorial electron densities and topside GPS track losses. Geophysical Research Letters, 2015, 42, 2088-2092.	4.0	66
58	Electron jet of asymmetric reconnection. Geophysical Research Letters, 2016, 43, 5571-5580.	4.0	66
59	Magnetospheric Multiscale observations of largeâ€amplitude, parallel, electrostatic waves associated with magnetic reconnection at the magnetopause. Geophysical Research Letters, 2016, 43, 5626-5634.	4.0	66
60	The GIC and Geomagnetic Response Over Fennoscandia to the 7â€“8 September 2017 Geomagnetic Storm. Space Weather, 2019, 17, 989-1010.	3.7	65
61	Electric field measurements on Cluster: comparing the double-probe and electron drift techniques. Annales Geophysicae, 2006, 24, 275-289.	1.6	64
62	Ion waves and upgoing ion beams observed by the Viking satellite. Geophysical Research Letters, 1987, 14, 463-466.	4.0	62
63	Electrostatic solitary waves with distinct speeds associated with asymmetric reconnection. Geophysical Research Letters, 2015, 42, 215-224.	4.0	62
64	Low-energy (order 10 eV) ion flow in the magnetotail lobes inferred from spacecraft wake observations. Geophysical Research Letters, 2006, 33, .	4.0	61
65	High energy jets in the Earthâ€™s magnetosheath: Implications for plasma dynamics and anomalous transport. JETP Letters, 2008, 87, 593-599.	1.4	61
66	Turbulence Heating ObserveR â€“ satellite mission proposal. Journal of Plasma Physics, 2016, 82, .	2.1	60
67	Case studies of the dynamics of ionospheric ions in the Earth's magnetotail. Journal of Geophysical Research, 2004, 109, .	3.3	58
68	Whistler emission in the separatrix regions of asymmetric magnetic reconnection. Journal of Geophysical Research: Space Physics, 2016, 121, 1934-1954.	2.4	56
69	Lower hybrid drift instability at a dipolarization front. Journal of Geophysical Research: Space Physics, 2015, 120, 1124-1132.	2.4	55
70	The Earth: Plasma Sources, Losses, and Transport Processes. Space Science Reviews, 2015, 192, 145-208.	8.1	54
71	Electron currents and heating in the ion diffusion region of asymmetric reconnection. Geophysical Research Letters, 2016, 43, 4691-4700.	4.0	53
72	Estimating the capture and loss of cold plasma from ionospheric outflow. Journal of Geophysical Research, 2012, 117, .	3.3	52

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73	Whistler mode waves at magnetotail dipolarization fronts. Journal of Geophysical Research: Space Physics, 2014, 119, 2605-2611.	2.4	51
74	Transverse ion energization and wave emissions observed by the Freja satellite. Geophysical Research Letters, 1994, 21, 1915-1918.	4.0	50
75	Mapping HF waves in the reconnection diffusion region. Geophysical Research Letters, 2013, 40, 1032-1037.	4.0	49
76	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
77	Energy conversion at dipolarization fronts. Geophysical Research Letters, 2017, 44, 1234-1242.	4.0	49
78	Hot and cold ion outflow: Spatial distribution of ion heating. Journal of Geophysical Research, 2012, 117, .	3.3	48
79	Outflow of lowâ€energy ions and the solar cycle. Journal of Geophysical Research: Space Physics, 2015, 120, 1072-1085.	2.4	47
80	Kinetic evidence of magnetic reconnection due to Kelvinâ€Helmholtz waves. Geophysical Research Letters, 2016, 43, 5635-5643.	4.0	47
81	Modification of the Hall physics in magnetic reconnection due to cold ions at the Earth's magnetopause. Geophysical Research Letters, 2015, 42, 6146-6154.	4.0	47
82	Instability of Agyrotropic Electron Beams near the Electron Diffusion Region. Physical Review Letters, 2017, 119, 025101.	7.8	46
83	Cluster multispacecraft observations at the high-latitude duskside magnetopause: implications for continuous and component magnetic reconnection. Annales Geophysicae, 2005, 23, 461-473.	1.6	46
84	On the ionospheric source region of cold ion outflow. Geophysical Research Letters, 2012, 39, .	4.0	45
85	Slow electron phase space holes: Magnetotail observations. Geophysical Research Letters, 2015, 42, 1654-1661.	4.0	45
86	A statistical study of EMIC waves observed by Cluster: 2. Associated plasma conditions. Journal of Geophysical Research: Space Physics, 2016, 121, 6458-6479.	2.4	45
87	Magnetic reconnection and modification of the Hall physics due to cold ions at the magnetopause. Geophysical Research Letters, 2016, 43, 6705-6712.	4.0	45
88	Universality of Lower Hybrid Waves at Earth's Magnetopause. Journal of Geophysical Research: Space Physics, 2019, 124, 8727-8760.	2.4	45
89	Freja observations of heating and precipitation of positive ions. Geophysical Research Letters, 1994, 21, 1911-1914.	4.0	44
90	Source of whistler emissions at the dayside magnetopause. Geophysical Research Letters, 2007, 34, .	4.0	44

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91	Ionâ€Beamâ€Driven Intense Electrostatic Solitary Waves in Reconnection Jet. Geophysical Research Letters, 2019, 46, 12702-12710.	4.0	43
92	CME impact on comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S45-S56.	4.4	42
93	Solitary structures associated with short large-amplitude magnetic structures (SLAMS) upstream of the Earth's quasi-parallel bow shock. Geophysical Research Letters, 2004, 31, .	4.0	41
94	Oblique reflections in the Mars Express MARSIS data set: Stable density structures in the Martian ionosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 3944-3960.	2.4	41
95	Observation of electromagnetic ion cyclotron waves and hot plasma in the polar cusp. Geophysical Research Letters, 1988, 15, 421-424.	4.0	40
96	Observations of an active thin current sheet. Journal of Geophysical Research, 2008, 113, .	3.3	40
97	Asymmetry in the current sheet and secondary magnetic flux ropes during guide field magnetic reconnection. Journal of Geophysical Research, 2012, 117, .	3.3	40
98	Quadrupolar pattern of the asymmetric guideâ€field reconnection. Journal of Geophysical Research: Space Physics, 2017, 122, 6349-6356.	2.4	40
99	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
100	Cluster PEACE observations of electrons of spacecraft origin. Annales Geophysicae, 2001, 19, 1721-1730.	1.6	39
101	Ion sound wave packets at the quasiperpendicular shock front. Geophysical Research Letters, 2005, 32, .	4.0	38
102	Determination of local plasma densities with the MARSIS radar: Asymmetries in the highâ€'altitude Martian ionosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 6228-6242.	2.4	38
103	Rippled Electronâ€Scale Structure of a Dipolarization Front. Geophysical Research Letters, 2018, 45, 12,116.	4.0	38
104	Waves and wave-particle interactions in the auroral region. Journal of Atmospheric and Solar-Terrestrial Physics, 1997, 59, 1687-1712.	1.6	37
105	Multi-spacecraft observations of broadband waves near the lower hybrid frequency at the Earthward edge of the magnetopause. Annales Geophysicae, 2001, 19, 1471-1481.	1.6	37
106	Dynamics and waves near multiple magnetic null points in reconnection diffusion region. Journal of Geophysical Research, 2009, 114, .	3.3	37
107	Waves in high-speed plasmoids in the magnetosheath and at the magnetopause. Annales Geophysicae, 2014, 32, 991-1009.	1.6	37
108	Electron Dynamics in the Diffusion Region of an Asymmetric Magnetic Reconnection. Physical Review Letters, 2014, 112, .	7.8	37

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109	Finite gyroradius effects in the electron outflow of asymmetric magnetic reconnection. Geophysical Research Letters, 2016, 43, 6724-6733.	4.0	37
110	Electron acceleration by low frequency electric field fluctuations: Electron conics. Geophysical Research Letters, 1992, 19, 1073-1076.	4.0	36
111	Multiple bidirectional EMIC waves observed by Cluster at middle magnetic latitudes in the dayside magnetosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 6266-6278.	2.4	36
112	Magnetospheric responses to sudden and quasiperiodic solar wind variations. Journal of Geophysical Research, 2002, 107, SMP 36-1.	3.3	35
113	Magnetic reconnection and cold plasma at the magnetopause. Geophysical Research Letters, 2010, 37, .	4.0	35
114	Cold ion demagnetization near the Xâ€line of magnetic reconnection. Geophysical Research Letters, 2016, 43, 6759-6767.	4.0	35
115	Cold ion heating at the dayside magnetopause during magnetic reconnection. Geophysical Research Letters, 2016, 43, 58-66.	4.0	34
116	The k-filtering technique applied to wave electric and magnetic field measurements from the Cluster satellites. Journal of Geophysical Research, 2005, 110, .	3.3	33
117	Plasma penetration of the dayside magnetopause. Physics of Plasmas, 2012, 19, .	1.9	33
118	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
119	Microphysics of Magnetic Reconnection. Space Science Reviews, 2006, 122, 19-27.	8.1	31
120	Response of the inner magnetosphere and the plasma sheet to a sudden impulse. Journal of Geophysical Research, 2008, 113, .	3.3	31
121	Magnetic turbulence in space plasmas: Scaleâ€dependent effects of anisotropy. Journal of Geophysical Research, 2009, 114, .	3.3	31
122	Energy conversion regions as observed by Cluster in the plasma sheet. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	31
123	Separatrix regions of magnetic reconnection at the magnetopause. Annales Geophysicae, 2009, 27, 4039-4056.	1.6	31
124	Minimum variance free wave identification: Application to Cluster electric field data in the magnetosheath. Geophysical Research Letters, 2003, 30, n/a-n/a.	4.0	30
125	Slow electron holes in multicomponent plasmas. Geophysical Research Letters, 2015, 42, 7264-7272.	4.0	30
126	Threeâ€scale structure of diffusion region in the presence of cold ions. Journal of Geophysical Research: Space Physics, 2016, 121, 12,001.	2.4	30

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127	Largeâ€Amplitude Highâ€Frequency Waves at Earth's Magnetopause. Journal of Geophysical Research: Space Physics, 2018, 123, 2630-2657.	2.4	30
128	Lower hybrid cavities in the inner magnetosphere. Geophysical Research Letters, 2003, 30, .	4.0	29
129	Hot and cold ion outflow: Observations and implications for numerical models. Journal of Geophysical Research: Space Physics, 2013, 118, 105-117.	2.4	29
130	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
131	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
132	What high altitude observations tell us about the auroral acceleration: A Cluster/DMSP conjunction. Geophysical Research Letters, 2003, 30, .	4.0	27
133	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
134	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
135	Lower hybrid waves at comet 67P/Churyumovâ€“Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2017, 469, S29-S38.	4.4	26
136	Electron Bernstein waves driven by electron crescents near the electron diffusion region. Nature Communications, 2020, 11, 141.	12.8	26
137	Impacts of Ionospheric Ions on Magnetic Reconnection and Earth's Magnetosphere Dynamics. Reviews of Geophysics, 2021, 59, e2020RG000707.	23.0	26
138	What parts of broadband spectra are responsible for ion conic production?. Geophysical Research Letters, 1991, 18, 1683-1686.	4.0	24
139	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
140	Energy budget and mechanisms of cold ion heating in asymmetric magnetic reconnection. Journal of Geophysical Research: Space Physics, 2017, 122, 9396-9413.	2.4	24
141	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
142	Bow shock motions observed with CLUSTER. Geophysical Research Letters, 2003, 30, .	4.0	23
143	Dawn-dusk scale of dipolarization front in the Earthâ€™s magnetotail: multi-cases study. Astrophysics and Space Science, 2015, 357, 1.	1.4	23
144	Observations of auroral broadband emissions by CLUSTER. Geophysical Research Letters, 2003, 30, .	4.0	22

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145	Cluster observations of high-frequency waves in the exterior cusp. Annales Geophysicae, 2004, 22, 2403-2411.	1.6	22
146	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
147	Mass Loading the Earth's Dayside Magnetopause Boundary Layer and Its Effect on Magnetic Reconnection. Geophysical Research Letters, 2019, 46, 6204-6213.	4.0	21
148	Near-Earth substorm onset: A coordinated study. Geophysical Research Letters, 1994, 21, 1875-1878.	4.0	20
149	Strong current sheet at a magnetosheath jet: Kinetic structure and electron acceleration. Journal of Geophysical Research: Space Physics, 2016, 121, 9608-9618.	2.4	20
150	Electron Energization at a Reconnecting Magnetosheath Current Sheet. Geophysical Research Letters, 2018, 45, 8081-8090.	4.0	20
151	Cluster observations in the magnetotail during sudden and quasiperiodic solar wind variations. Journal of Geophysical Research, 2004, 109, .	3.3	19
152	The role of the inner tail to midtail plasma sheet in channeling solar wind power to the ionosphere. Journal of Geophysical Research, 2012, 117, .	3.3	19
153	Cold Ionospheric Ions in the Magnetic Reconnection Outflow Region. Journal of Geophysical Research: Space Physics, 2017, 122, 10,194.	2.4	19
154	Correlation between suprathermal electron bursts, broadband extremely low frequency waves, and local ion heating in the midaltitude cleft/low-latitude boundary layer observed by Cluster. Journal of Geophysical Research, 2004, 109, .	3.3	18
155	Midnight sector observations of auroral omega bands. Journal of Geophysical Research, 2011, 116, .	3.3	18
156	Estimation of cold plasma outflow during geomagnetic storms. Journal of Geophysical Research: Space Physics, 2015, 120, 10,622.	2.4	18
157	Oxygen energization by localized perpendicular electric fields at the cusp boundary. Geophysical Research Letters, 2010, 37, .	4.0	17
158	Magnetotail Hall Physics in the Presence of Cold Ions. Geophysical Research Letters, 2018, 45, 10,941.	4.0	17
159	Perpendicular Current Reduction Caused by Cold Ions of Ionospheric Origin in Magnetic Reconnection at the Magnetopause: Particleâ€inâ€Cell Simulations and Spacecraft Observations. Geophysical Research Letters, 2018, 45, 10,033.	4.0	17
160	Electrostatic Spacecraft Potential Structure and Wake Formation Effects for Characterization of Cold Ion Beams in the Earth's Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 10048-10062.	2.4	17
161	A statistical study of ion energization at 1700 km in the auroral region. Annales Geophysicae, 2002, 20, 1943-1958.	1.6	17
162	â€œCraterâ€•flux transfer events: Highroad to the X line?. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	16

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163	Statistics and accuracy of magnetic null identification in multispacecraft data. Geophysical Research Letters, 2015, 42, 6883-6889.	4.0	16
164	Cluster observations of the substructure of a flux transfer event: analysis of high-time-resolution particle data. Annales Geophysicae, 2014, 32, 1093-1117.	1.6	15
165	Cold and warm electrons at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 0, , .	5.1	15
166	Electron Reconnection in the Magnetopause Current Layer. Journal of Geophysical Research: Space Physics, 2018, 123, 9222-9238.	2.4	15
167	Structure of a Perturbed Magnetic Reconnection Electron Diffusion Region in the Earthâ€™s Magnetotail. Physical Review Letters, 2021, 127, 215101.	7.8	15
168	Direct observations of anomalous resistivity and diffusion in collisionless plasma. Nature Communications, 2022, 13, .	12.8	15
169	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
170	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
171	Proton Temperature Anisotropies in the Plasma Environment of Venus. Journal of Geophysical Research: Space Physics, 2019, 124, 3312-3330.	2.4	14
172	Highâ€density O⁺ in Earth's outer magnetosphere and its effect on dayside magnetopause magnetic reconnection. Journal of Geophysical Research: Space Physics, 2019, 124, 10257-10269.	2.4	14
173	Physical interpretation of the PadÃ© approximation of the plasma dispersion function. Journal of Plasma Physics, 2000, 64, 287-296.	2.1	13
174	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
175	Upperâ€Hybrid Waves Driven by Meandering Electrons Around Magnetic Reconnection X Line. Geophysical Research Letters, 2021, 48, e2021GL093164.	4.0	13
176	In-flight calibration of double-probe electric field measurements on Cluster. Geoscientific Instrumentation, Methods and Data Systems, 2014, 3, 143-151.	1.6	13
177	Internal structure and spatial dimensions of whistler wave regions in the magnetopause boundary layer. Annales Geophysicae, 2007, 25, 2439-2451.	1.6	12
178	The importance of a dark ionosphere for ion heating and auroral arc formation. Geophysical Research Letters, 2000, 27, 1635-1638.	4.0	11
179	Energy input from the exterior cusp into the ionosphere: Correlated ground-based and satellite observations. Geophysical Research Letters, 2007, 34, .	4.0	11
180	The Swedish Small Satellite Program for Space Plasma Investigations. Space Science Reviews, 2004, 111, 377-413.	8.1	10

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181	Global control of merging by the interplanetary magnetic field: Cluster observations of dawnside flank magnetopause reconnection. Journal of Geophysical Research, 2004, 109, .	3.3	10
182	Previously hidden low-energy ions: a better map of near-Earth space and the terrestrial mass balance. Physica Scripta, 2015, 90, 128005.	2.5	10
183	Oxygen Ions O⁺ Energized by Kinetic AlfvÃ©n Eigenmode During Dipolarizations of Intense Substorms. Journal of Geophysical Research: Space Physics, 2017, 122, 11,256.	2.4	10
184	Electron Acceleration in a Magnetotail Reconnection Outflow Region Using Magnetospheric MultiScale Data. Geophysical Research Letters, 2020, 47, e2019GL085080.	4.0	10
185	The AlfvÃ©n edge in asymmetric reconnection. Annales Geophysicae, 2010, 28, 1327-1331.	1.6	9
186	Large Amplitude Electrostatic Proton Plasma Frequency Waves in the Magnetospheric Separatrix and Outflow Regions During Magnetic Reconnection. Geophysical Research Letters, 2021, 48, e2020GL090286.	4.0	9
187	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
188	Nonâ€Maxwellianity of Electron Distributions Near Earth's Magnetopause. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029260.	2.4	9
189	Cold Ion Outflow as a Source of Plasma for the Magnetosphere. Geophysical Monograph Series, 2013, , 341-354.	0.1	8
190	Thin Current Sheet Behind the Dipolarization Front. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029518.	2.4	8
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