Tuija I Pulkkinen

List of Publications by Year
in descending order

243	8,506	50170 46	62479 80
papers	citations	h-index	g-index

268	268	268	2983
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Neutral line model of substorms: Past results and present view. Journal of Geophysical Research, 1996, 101, 12975-13010.	3.3	861
2	Coronal mass ejections and their sheath regions in interplanetary space. Living Reviews in Solar Physics, 2017, 14, 5.	7.8	262
3	Steady magnetospheric convection: A review of recent results. Space Science Reviews, 1996, 75, 551-604.	3.7	231
4	Space Weather: Terrestrial Perspective. Living Reviews in Solar Physics, 2007, 4, 1.	7.8	198
5	Substorm Current Wedge Revisited. Space Science Reviews, 2015, 190, 1-46.	3.7	184
6	Evaluation of the tail current contribution toDst. Journal of Geophysical Research, 2000, 105, 5431-5439.	3.3	168
7	Growth-phase thinning of the near-Earth current sheet during the CDAW 6 substorm. Journal of Geophysical Research, 1994, 99, 5805.	3.3	153
8	Coronal mass ejections, magnetic clouds, and relativistic magnetospheric electron events: ISTP. Journal of Geophysical Research, 1998, 103, 17279-17291.	3.3	144
9	Pseudobreakup and substorm growth phase in the ionosphere and magnetosphere. Journal of Geophysical Research, 1993, 98, 5801-5813.	3.3	135
10	Supermagnetosonic Jets behind a Collisionless Quasiparallel Shock. Physical Review Letters, 2009, 103, 245001.	2.9	121
11	A strong CME-related magnetic cloud interaction with the Earth's Magnetosphere: ISTP observations of rapid relativistic electron acceleration on May 15, 1997. Geophysical Research Letters, 1998, 25, 2975-2978.	1.5	118
12	Substorm energy budget during low and high solar activity: 1997 and 1999 compared. Journal of Geophysical Research, 2002, 107, SMP 15-1.	3.3	116
13	Modeling the growth phase of a substorm using the Tsyganenko Model and multiâ€spacecraft observations: CDAWâ€9. Geophysical Research Letters, 1991, 18, 1963-1966.	1.5	115
14	Stormtime energy transfer in global MHD simulation. Journal of Geophysical Research, 2003, 108, .	3.3	108
15	Particle scattering and current sheet stability in the geomagnetic tail during the substorm growth phase. Journal of Geophysical Research, 1992, 97, 19283-19297.	3.3	103
16	Coupled-mode scenario for the magnetospheric dynamics. Journal of Geophysical Research, 1996, 101, 13047-13065.	3.3	103
17	MHD simulation of the magnetotail during the December 10, 1996, substorm. Journal of Geophysical Research, 2000, 105, 27649-27663.	3.3	92
18	A quantitative assessment of energy storage and release in the Earth's magnetotail. Journal of Geophysical Research, 1997, 102, 7159-7168.	3.3	90

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19	Unraveling the drivers of the storm time radiation belt response. Geophysical Research Letters, 2015, 42, 3076-3084.	1.5	90
20	Multi-spacecraft observation of plasma dipolarization/injection in the inner magnetosphere. Annales Geophysicae, 2007, 25, 801-814.	0.6	88
21	The GUMICS-4 global MHD magnetosphereâ€“ionosphere coupling simulation. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 80, 48-59.	0.6	88
22	Ionospheric current signatures of transient plasma sheet flows. Journal of Geophysical Research, 2000, 105, 10677-10690.	3.3	87
23	Energy content in the storm time ring current. Journal of Geophysical Research, 2001, 106, 19149-19156.	3.3	84
24	Thin current sheets in the magnetotail during substorms: CDAW 6 revisited. Journal of Geophysical Research, 1994, 99, 5793.	3.3	80
25	CDAW 9 analysis of magnetospheric events on May 3, 1986: Event C. Journal of Geophysical Research, 1993, 98, 3815-3834.	3.3	79
26	Role of substorm-associated impulsive electric fields in the ring current development during storms. Annales Geophysicae, 2005, 23, 579-591.	0.6	74
27	Magnetosphere preconditioning under northward IMF: Evidence from the study of coronal mass ejection and corotating interaction region geoeffectiveness. Journal of Geophysical Research, 2006, 111, .	3.3	72
28	Two substorm intensifications compared: Onset, expansion, and global consequences. Journal of Geophysical Research, 1998, 103, 15-27.	3.3	70
29	At substorm onset, 40% of AL comes from underground. Journal of Geophysical Research, 2001, 106, 13119-13134.	3.3	70
30	Hybrid state of the tail magnetic configuration during steady convection events. Journal of Geophysical Research, 1994, 99, 23571.	3.3	65
31	Hybrid Input Algorithm: An event-oriented magnetospheric model. Journal of Geophysical Research, 1999, 104, 24977-24993.	3.3	65
32	MHD drift ballooning instability near the inner edge of the nearâ€Earth plasma sheet and its application to substorm onset. Journal of Geophysical Research, 1997, 102, 14397-14406.	3.3	62
33	Magnetospheric substorms are strongly modulated by interplanetary high-speed streams. Geophysical Research Letters, 2005, 32, .	1.5	61
34	Substorms: A global instability of the magnetosphere-ionosphere system. Journal of Geophysical Research, 1999, 104, 14601-14611.	3.3	60
35	Continuous reconnection line and pressureâ€dependent energy conversion on the magnetopause in a global MHD model. Journal of Geophysical Research, 2007, 112, .	3.3	59
36	Differences in geomagnetic storms driven by magnetic clouds and ICME sheath regions. Geophysical Research Letters, 2007, 34, .	1.5	58

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37	Recovery phase of magnetospheric substorms and its association with morning-sector aurora. Journal of Geophysical Research, 1994, 99, 4115.	3.3	57
38	Pseudobreakup and substorm onset: Observations and MHD simulations compared. Journal of Geophysical Research, 1998, 103, 14847-14854.	3.3	56
39	Loading-unloading processes in the nightside ionosphere. Geophysical Research Letters, 2000, 27, 1627-1630.	1.5	55
40	Formation of intense nose structures. Geophysical Research Letters, 2001, 28, 491-494.	1.5	55
41	Ballooning instability in the presence of a plasma flow: A synthesis of tail reconnection and current disruption models for the initiation of substorms. Journal of Geophysical Research, 1999, 104, 10235-10248.	3.3	53
42	Equinoctial and solstitial averages of magnetospheric relativistic electrons: A strong semiannual modulation. Geophysical Research Letters, 1999, 26, 3193-3196.	1.5	53
43	Long-term evolution of magnetospheric current systems during storms. Annales Geophysicae, 2004, 22, 1317-1334.	0.6	53
44	April 2000 magnetic storm: Solar wind driver and magnetospheric response. Journal of Geophysical Research, 2002, 107, SMP 15-1-SMP 15-21.	3.3	52
45	Thin current sheets in the deep geomagnetic tail. Geophysical Research Letters, 1993, 20, 2427-2430.	1.5	49
46	Size of the auroral oval: UV ovals and precipitation boundaries compared. Journal of Geophysical Research, 1999, 104, 2321-2331.	3.3	49
47	Observations of Substorm Electrodynamics Using the Miracle Network. Astrophysics and Space Science Library, 1998, , 111-114.	1.0	48
48	Assessment of ionospheric Joule heating by GUMICS-4 MHD simulation, AMIE, and satellite-based statistics: towards a synthesis. Annales Geophysicae, 2005, 23, 2051-2068.	0.6	47
49	Entry of plasma sheet particles into the inner magnetosphere as observed by Polar/CAMMICE. Journal of Geophysical Research, 2000, 105, 25205-25219.	3.3	46
50	Effects of induced currents onDstand on magnetic variations at midlatitude stations. Journal of Geophysical Research, 2002, 107, SMP 7-1.	3.3	46
51	Ionospheric energy input as a function of solar wind parameters: global MHD simulation results. Annales Geophysicae, 2004, 22, 549-566.	0.6	46
52	Comparative statistical analysis of storm time activations and sawtooth events. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	46
53	Evidence of near-Earth breakup location. Geophysical Research Letters, 2003, 30, .	1.5	45
54	A statistical study of the dawnâ€dusk asymmetry of ion temperature anisotropy and mirror mode occurrence in the terrestrial dayside magnetosheath using THEMIS data. Journal of Geophysical Research: Space Physics, 2015, 120, 5489-5503.	0.8	45

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55	Magnetospheric current systems during stormtime sawtooth events. Journal of Geophysical Research, 2006, 111, .	3.3	43
56	From space weather toward space climate time scales: Substorm analysis from 1993 to 2008. Journal of Geophysical Research, 2011, 116, .	3.3	43
57	Magnetospheric field and current distributions during the substorm recovery phase. Journal of Geophysical Research, 1994, 99, 10955.	3.3	42
58	Midnight velocity shear zone and the concept of Harang discontinuity. Journal of Geophysical Research, 1995, 100, 9539.	3.3	42
59	Ring current ion composition during solar minimum and rising solar activity: Polar/CAMMICE/MICS results. Journal of Geophysical Research, 2001, 106, 19131-19147.	3.3	41
60	Relation between the ring current and the tail current during magnetic storms. Annales Geophysicae, 2005, 23, 523-533.	0.6	41
61	On the characterization of magnetic reconnection in global MHD simulations. Annales Geophysicae, 2006, 24, 3059-3069.	0.6	41
62	Compression of the Earth's magnetotail by interplanetary shocks directly drives transient magnetic flux closure. Geophysical Research Letters, 2006, 33, n/a-n/a.	1.5	40
63	Simultaneous observation of the poleward expansion of substorm electrojet activity and the tailward expansion of current sheet disruption in the nearâ€Earth magnetotail. Journal of Geophysical Research, 1993, 98, 9285-9295.	3.3	38
64	The Sunâ€“Earth Connection in Time Scales from Years to Decades and Centuries. Space Science Reviews, 2001, 95, 625-637.	3.7	38
65	A statistical study of magnetic field fluctuations in the dayside magnetosheath and their dependence on upstream solar wind conditions. Journal of Geophysical Research: Space Physics, 2014, 119, 6231-6248.	0.8	38
66	Plasma sheet ion injections into the auroral bulge: Correlative study of spacecraft and ground observations. Journal of Geophysical Research, 2000, 105, 18465-18481.	3.3	37
67	Role of solar wind dynamic pressure in driving ionospheric Joule heating. Journal of Geophysical Research, 2004, 109, .	3.3	37
68	Cusp and magnetopause locations in global MHD simulation. Journal of Geophysical Research, 2001, 106, 29435-29450.	3.3	36
69	The global efficiency of relativistic electron production in the Earth's magnetosphere. Journal of Geophysical Research, 2001, 106, 19169-19178.	3.3	36
70	What can we tell about global auroral-electrojet activity from a single meridional magnetometer chain?. Annales Geophysicae, 1996, 14, 1177-1185.	0.6	35
71	A study of magnetic field and current configurations in the magnetotail at the time of a substorm onset. Planetary and Space Science, 1991, 39, 833-845.	0.9	34
72	Modeling the ring current magnetic field during storms. Journal of Geophysical Research, 2002, 107, SMP 3-1.	3.3	34

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73	A statistical study into the spatial distribution and dawnâ€dusk asymmetry of dayside magnetosheath ion temperatures as a function of upstream solar wind conditions. Journal of Geophysical Research: Space Physics, 2015, 120, 2767-2782.	0.8	34
74	Location of high‐altitude cusp during steady solar wind conditions. Journal of Geophysical Research, 2001, 106, 21109-21122.	3.3	33
75	Transition from substorm growth to substorm expansion phase as observed with a radial configuration of ISTP and Cluster spacecraft. Annales Geophysicae, 2005, 23, 2183-2198.	0.6	33
76	Magnetopause energy and mass transfer: results from a global MHD simulation. Annales Geophysicae, 2006, 24, 3467-3480.	0.6	33
77	Coordinated Cluster, ground-based instrumentation and low-altitude satellite observations of transient poleward-moving events in the ionosphere and in the tail lobe. Annales Geophysicae, 2001, 19, 1589-1612.	0.6	32
78	Evolution of the proton ring current energy distribution during 21â€“25 April 2001 storm. Journal of Geophysical Research, 2006, 111, .	3.3	32
79	What sustained multi-disciplinary research can achieve: The space weather modeling framework. Journal of Space Weather and Space Climate, 2021, 11, 42.	1.1	32
80	Energy transport and dissipation in the magnetosphere during geomagnetic storms. Journal of Atmospheric and Solar-Terrestrial Physics, 2001, 63, 421-429.	0.6	31
81	Changes in solar windâ€“magnetosphere coupling with solar cycle, season, and time relative to stream interfaces. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 99, 1-13.	0.6	31
82	Coordinated Cluster and ground-based instrument observations of transient changes in the magnetopause boundary layer during an interval of predominantly northward IMF: relation to reconnection pulses and FTE signatures. Annales Geophysicae, 2001, 19, 1613-1640.	0.6	30
83	Seasonal and diurnal variation of geomagnetic activity: RevisedDstversus external drivers. Journal of Geophysical Research, 2003, 108, .	3.3	29
84	Auroral electrojets during deep solar minimum at the end of solar cycle 23. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	29
85	Testing the accuracy of magnetospheric model field line mapping. Journal of Geophysical Research, 1996, 101, 27431-27442.	3.3	28
86	Storm-time ring current: model-dependent results. Annales Geophysicae, 2012, 30, 177-202.	0.6	28
87	Mapping of the auroral oval and individual arcs during substorms. Journal of Geophysical Research, 1995, 100, 21987-21994.	3.3	27
88	Solar windâ€magnetosphere coupling efficiency during ejecta and sheathâ€driven geomagnetic storms. Journal of Geophysical Research: Space Physics, 2016, 121, 4378-4396.	0.8	27
89	Direct evidence of nonstationary collisionless shocks in space plasmas. Science Advances, 2019, 5, eaau9926.	4.7	27
90	The impact of solar wind ULF B_z fluctuations on geomagnetic activity for viscous timescales during strongly northward and southward IMF. Journal of Geophysical Research: Space Physics, 2015, 120, 9307-9322.	0.8	26

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91	Spatial extent and dynamics of a thin current sheet during the substorm growth phase on December 10, 1996. Journal of Geophysical Research, 1999, 104, 28475-28490.	3.3	25
92	Proton isotropy boundaries as measured on mid- and low-altitude satellites. Annales Geophysicae, 2005, 23, 1839-1847.	0.6	25
93	Solar windâ€"magnetosphere coupling: A review of recent results. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 256-264.	0.6	25
94	Statistical survey on sawtooth events, SMCs and isolated substorms. Advances in Space Research, 2009, 44, 376-384.	1.2	25
95	Comets in full sky $mathsf{L_{alpha}}$ maps of the SWAN instrument. Astronomy and Astrophysics, 2001, 368, 292-297.	2.1	25
96	Title is missing!. Cosmic Research, 2003, 41, 3-12.	0.2	24
97	Shock propagation in the magnetosphere: Observations and MHD simulations compared. Journal of Geophysical Research, 2008, 113, .	3.3	24
98	Statistical analysis of mirror mode waves in sheath regions driven by interplanetary coronal mass ejection. Annales Geophysicae, 2018, 36, 793-808.	0.6	24
99	Reexamination of driven and unloading aspects of magnetospheric substorms. Journal of Geophysical Research, 1997, 102, 7169-7177.	3.3	23
100	Magnetospheric modes and solar wind energy coupling efficiency. Journal of Geophysical Research, 2010, 115, .	3.3	23
101	Magnetosheath control of solar windâ€magnetosphere coupling efficiency. Journal of Geophysical Research: Space Physics, 2016, 121, 8728-8739.	0.8	23
102	What can we tell about global auroral-electrojet activity from a single meridional magnetometer chain?. Annales Geophysicae, 1996, 14, 1177.	0.6	23
103	New interpretation of magnetospheric energy circulation. Geophysical Research Letters, 2006, 33, .	1.5	22
104	Magnetospheric convection during intermediate driving: Sawtooth events and steady convection intervals as seen in Lyonâ€Fedderâ€Mobarry global MHD simulations. Journal of Geophysical Research, 2007, 112, .	3.3	22
105	Solar wind electric field driving of magnetospheric activity: Is it velocity or magnetic field?. Geophysical Research Letters, 2007, 34, .	1.5	22
106	ON THE CONNECTION BETWEEN MICROBURSTS AND NONLINEAR ELECTRONIC STRUCTURES IN PLANETARY RADIATION BELTS. Astrophysical Journal, 2016, 816, 51.	1.6	22
107	Tail reconnection in the global magnetospheric context: Vlasiator first results. Annales Geophysicae, 2017, 35, 1269-1274.	0.6	22
108	Solar cycle correlations of substorm and auroral occurrence frequency. Geophysical Research Letters, 1998, 25, 3087-3090.	1.5	21

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109	Statistical study of auroral spirals. Journal of Geophysical Research, 2001, 106, 15415-15428.	3.3	21
110	The magnetotail reconnection region in a global MHD simulation. Annales Geophysicae, 2005, 23, 3753-3764.	0.6	21
111	Multispacecraft and groundâ€based observations of substorm timing and activations: Two case studies. Journal of Geophysical Research, 2008, 113, .	3.3	21
112	MLT and seasonal dependence of auroral electrojets: IMAGE magnetometer network observations. Journal of Geophysical Research: Space Physics, 2014, 119, 3179-3188.	0.8	21
113	Universal properties of mirror mode turbulence in the Earth's magnetosheath. Geophysical Research Letters, 2015, 42, 3085-3092.	1.5	21
114	Signatures of the substorm recovery phase at high-altitude spacecraft. Journal of Geophysical Research, 1994, 99, 10967.	3.3	20
115	Near-Earth substorm onset: A coordinated study. Geophysical Research Letters, 1994, 21, 1875-1878.	1.5	20
116	Auroral precipitation fading before and at substorm onset: ionospheric and geostationary signatures. Annales Geophysicae, 1997, 15, 967-983.	0.6	20
117	Hysteresis in solar wind power input to the magnetosphere. Geophysical Research Letters, 2006, 33, .	1.5	20
118	Contribution of magnetotail reconnection to the cross-polar cap electric potential drop. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	20
119	A Possible Interpretation of Cold Ion Beams in the Earth's Tail Lobe. Journal of Geomagnetism and Geoelectricity, 1996, 48, 699-710.	0.8	20
120	Thin current sheet evolution as seen in observations, empirical models and MHD simulations. Geophysical Research Letters, 2000, 27, 1363-1366.	1.5	19
121	Energy dissipation during a geomagnetic storm: May 1998. Advances in Space Research, 2002, 30, 2231-2240.	1.2	19
122	Different magnetospheric modes: solar wind driving and coupling efficiency. Annales Geophysicae, 2009, 27, 4281-4291.	0.6	19
123	Energy conversion at the Earth's magnetopause using single and multispacecraft methods. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	19
124	Satellite and groundâ€based observations of a fading transpolar arc. Journal of Geophysical Research, 1990, 95, 5817-5824.	3.3	18
125	A pseudo-breakup observation: Localized current wedge across the postmidnight auroral oval. Journal of Geophysical Research, 2003, 108, SIA 4-1.	3.3	18
126	What drives magnetospheric activity under northward IMF conditions?. Geophysical Research Letters, 2007, 34, .	1.5	18

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127	The Earthward Edge of the Plasma Sheet in Magnetospheric Substorms. Geophysical Monograph Series, 2013, , 147-160.	0.1	18
128	Ultra-low-frequency waves in the ion foreshock of Mercury: a global hybrid modelling study. Monthly Notices of the Royal Astronomical Society, 2020, 491, 4147-4161.	1.6	18
129	Auroral observations in Finland: Results from all-sky cameras, 1973-1997. Journal of Geophysical Research, 2001, 106, 8109-8118.	3.3	17
130	Testing the Hypothesis That Charge Exchange Can Cause a Two-Phase Decay. Geophysical Monograph Series, 0, , 211-225.	0.1	17
131	AlfvÃ©n Ion Cyclotron Waves in Sheath Regions Driven by Interplanetary Coronal Mass Ejections. Journal of Geophysical Research: Space Physics, 2019, 124, 3893-3909.	0.8	17
132	Discovery of a comet by its Lyman-Î± emission. Nature, 2000, 405, 321-322.	13.7	16
133	A search engine for auroral forms. Advances in Space Research, 2001, 28, 1611-1616.	1.2	16
134	Solar windâ€“magnetosphere coupling efficiency for solar wind pressure impulses. Geophysical Research Letters, 2007, 34, .	1.5	16
135	Magnetospheric currents during sawtooth events: Eventâ€oriented magnetic field model analysis. Journal of Geophysical Research, 2008, 113, .	3.3	16
136	Auroral Signatures of Substorm Recovery Phase: A Case Study. Geophysical Monograph Series, 0, , 333-341.	0.1	16
137	Changes in the response of the AL Index with solar cycle and epoch within a corotating interaction region. Annales Geophysicae, 2009, 27, 3165-3178.	0.6	16
138	Mapping of auroral arcs during substorm growth phase. Journal of Geophysical Research, 1991, 96, 21087-21094.	3.3	15
139	Comparison of empirical magnetic field models and global MHD simulations: The near-tail currents. Geophysical Research Letters, 1995, 22, 675-678.	1.5	15
140	Solar wind-magnetosphere coupling during an isolated substorm event: A multispacecraft ISTP study. Geophysical Research Letters, 1997, 24, 983-986.	1.5	15
141	Mapping of the ionospheric fieldâ€aligned currents to the equatorial magnetosphere. Journal of Geophysical Research, 1997, 102, 14467-14476.	3.3	15
142	Dispersive magnetosheath-like ion injections in the evening sector on January 11, 1997. Geophysical Research Letters, 1998, 25, 2569-2572.	1.5	15
143	A study of inverted-V auroral acceleration mechanisms using Polar/Fast Auroral Snapshot conjunctions. Journal of Geophysical Research, 2001, 106, 18995-19011.	3.3	15
144	Magnetospheric feedback in solar wind energy transfer. Journal of Geophysical Research, 2010, 115, .	3.3	15

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145	Propagation of a shock-related disturbance in the Earth's magnetosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	15
146	CUTLASS HF radar observations of high-velocity E-region echoes. Annales Geophysicae, 2001, 19, 411-424.	0.6	15
147	A Model for the Distant Tail Field: ISEE 3 Revisited. Journal of Geomagnetism and Geoelectricity, 1996, 48, 455-471.	0.8	15
148	Analysis of the substorm trigger phase using multiple ground-based instrumentation. Geophysical Research Letters, 1995, 22, 2065-2068.	1.5	14
149	First results from the plasma composition spectrometer PROMICS-3 in the Interball project. Annales Geophysicae, 1997, 15, 542-552.	0.6	14
150	Particle Acceleration in the Inner Magnetosphere. Geophysical Monograph Series, 0, , 73-85.	0.1	14
151	Injection of Energetic Ions During the 31 March 0630 Substorm. Geophysical Monograph Series, 0, , 147-154.	0.1	14
152	On large plasmoid formation in a global magnetohydrodynamic simulation. Annales Geophysicae, 2011, 29, 167-179.	0.6	14
153	Outer Van Allen Radiation Belt Response to Interacting Interplanetary Coronal Mass Ejections. Journal of Geophysical Research: Space Physics, 2019, 124, 1927-1947.	0.8	14
154	Multi-spacecraft study of a substorm growth and expansion phase features using a time-evolving field model. Geophysical Monograph Series, 1994, , 101-110.	0.1	13
155	Mapping between the ionospheric and the tail electric fields in a time-dependent Earth's magnetosphere. Journal of Geophysical Research, 1998, 103, 9153-9164.	3.3	13
156	The role of photoemission in the coupling of the Mercury surface and magnetosphere. Planetary and Space Science, 1999, 47, 1459-1463.	0.9	13
157	Solar wind control of magnetospheric energy content: Substorm quenching and multiple onsets. Journal of Geophysical Research, 2000, 105, 5335-5356.	3.3	13
158	Statistical mapping of ULF Pc3 velocity fluctuations in the Earthâ€™s dayside magnetosheath as a function of solar wind conditions. Advances in Space Research, 2016, 58, 196-207.	1.2	13
159	Mesoscale ionospheric electrodynamics observed with the MIRACLE network: 1. Analysis of a pseudobreakup spiral. Journal of Geophysical Research, 2001, 106, 24675-24690.	3.3	12
160	Sources, Transport, and Losses of Energetic Particles During Geomagnetic Storms. Geophysical Monograph Series, 0, , 9-21.	0.1	12
161	Hybrid modeling of cometary plasma environments. Astronomy and Astrophysics, 2019, 630, A45.	2.1	12
162	Oxygen Ion Escape From Venus Is Modulated by Ultraâ€Low Frequency Waves. Geophysical Research Letters, 2020, 47, e2020GL087462.	1.5	12

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163	A statistical study of evening sector arcs and electrojets. Advances in Space Research, 2001, 28, 1605-1610.	1.2	11
164	Energy as a tracer of magnetospheric processes: GUMICS-4 global MHD results and observations compared. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 687-707.	0.6	11
165	Jensenâ€Shannon Complexity and Permutation Entropy Analysis of Geomagnetic Auroral Currents. Journal of Geophysical Research: Space Physics, 2019, 124, 2541-2551.	0.8	11
166	New Findings From Explainable SYMâ€H Forecasting Using Gradient Boosting Machines. Space Weather, 2022, 20, .	1.3	11
167	INTERBALL magnetotail boundary case studies. Advances in Space Research, 1997, 20, 999-1015.	1.2	10
168	On auroral dynamics observed by HF radar: 1. Equatorward edge of the afternoon-evening diffuse luminosity belt. Annales Geophysicae, 2000, 18, 1560-1575.	0.6	10
169	Substorm Associated Spikes in High Energy Particle Precipitation. Geophysical Monograph Series, 0, , 227-236.	0.1	10
170	The dawnâ€“dusk asymmetry of ion density in the dayside magnetosheath and its annual variability measured by THEMIS. Annales Geophysicae, 2016, 34, 511-528.	0.6	10
171	Temperature variations in the dayside magnetosheath and their dependence on ionâ€scale magnetic structures: THEMIS statistics and measurements by MMS. Journal of Geophysical Research: Space Physics, 2017, 122, 6165-6184.	0.8	10
172	Auroral fading in ionosphere-magnetosphere coupling model: Implications for possible mechanisms. Geophysical Research Letters, 1995, 22, 2049-2052.	1.5	9
173	Collective phenomena in the inner magnetosphere. Physics of Plasmas, 1999, 6, 4195-4199.	0.7	9
174	Particle tracing in the Earth's magnetosphere and the ring current formation during storm times. Advances in Space Research, 2002, 30, 1817-1820.	1.2	9
175	AlfvÃ©n: magnetosphereâ€”ionosphere connection explorers. Experimental Astronomy, 2012, 33, 445-489.	1.6	9
176	Plasma sheet magnetic fields and flows during steady magnetospheric convection events. Journal of Geophysical Research: Space Physics, 2013, 118, 6136-6144.	0.8	9
177	Solar wind energy input to the magnetosheath and at the magnetopause. Geophysical Research Letters, 2015, 42, 4723-4730.	1.5	9
178	Stormtime Energetics: Energy Transport Across the Magnetopause in a Global MHD Simulation. Frontiers in Astronomy and Space Sciences, 2021, 8, .	1.1	9
179	Auroral electrojets variations caused by recurrent highâ€speed solar wind streams during the extreme solar minimum of 2008. Journal of Geophysical Research, 2012, 117, .	3.3	8
180	On the threshold energization of radiation belt electrons by double layers. Journal of Geophysical Research: Space Physics, 2014, 119, 8243-8248.	0.8	8

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181	The Response of the Venusian Plasma Environment to the Passage of an ICME: Hybrid Simulation Results and Venus Express Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 3580-3601.	0.8	8
182	Mapping of the auroral horn into the magnetotail. Planetary and Space Science, 1990, 38, 1179-1186.	0.9	7
183	Ionospheric shear flow situations observed by the MIRACLE network, and the concept of Harang discontinuity. Geophysical Monograph Series, 2000, , 227-236.	0.1	7
184	Near Earth Current Meander (Necm) Model of Substorms. Space Science Reviews, 2001, 95, 399-414.	3.7	7
185	Dissipation to the joule heating: Isolated and stormtime substorms. Advances in Space Research, 2002, 30, 2305-2311.	1.2	7
186	Energetics of a substorm on 15 August, 2001: Comparing empirical methods and a global MHD simulation. Advances in Space Research, 2005, 36, 1825-1829.	1.2	7
187	Comparison of MHD Simulations of Isolated and Storm Time Substorms. Geophysical Monograph Series, 0, , 271-281.	0.1	7
188	Auroral streamers and magnetic flux closure. Geophysical Research Letters, 2007, 34, .	1.5	7
189	Spatial dependence of magnetopause energy transfer: Cluster measurements verifying global simulations. Annales Geophysicae, 2011, 29, 823-838.	0.6	7
190	Large-Scale Structure of the Magnetosphere. Geophysical Monograph Series, 0, , 21-31.	0.1	7
191	Annual variations in westward auroral electrojet and substorm occurrence rate during solar cycle 23. Journal of Geophysical Research: Space Physics, 2014, 119, 2061-2068.	0.8	7
192	The Crossâ€Polar Cap Saturation in GUMICSâ€4 During High Solar Wind Driving. Journal of Geophysical Research: Space Physics, 2018, 123, 3320-3332.	0.8	7
193	Remote sensing of cometary bow shocks: modelled asymmetric outgassing and pickup ion observations. Monthly Notices of the Royal Astronomical Society, 2021, 506, 4735-4749.	1.6	7
194	Substorms: A Global Magnetospheric Instability. Astrophysics and Space Science Library, 1998, , 231-235.	1.0	7
195	Observations of bidirectional electrons in the distant tail lobes: GEOTAIL results. Geophysical Research Letters, 1997, 24, 959-962.	1.5	6
196	Timing and location of phenomena during auroral breakup: A case study. Advances in Space Research, 2002, 30, 1775-1778.	1.2	6
197	Ionospheric Power Consumption in Global MHD Simulation Predicted From Solar Wind Measurements. IEEE Transactions on Plasma Science, 2004, 32, 1511-1518.	0.6	6
198	Timing of changes in the solar wind energy input in relation to ionospheric response. Journal of Geophysical Research, 2010, 115, .	3.3	6

#	Article	IF	Citations
199	Subcritical Growth of Electron Phase-space Holes in Planetary Radiation Belts. Astrophysical Journal, 2017, 846, 83.	1.6	6
200	Transmission of an ICME Sheath Into the Earth's Magnetosheath and the Occurrence of Traveling Foreshocks. Journal of Geophysical Research: Space Physics, 2021, 126, .	0.8	6
201	Global Substorm Cycle: What can the models tell us?. , 1997, 18, 1-37.		5
202	Magnetospheric substorms and the sources of inner magnetosphere particle acceleration. Geophysical Monograph Series, 2005, , 105-111.	0.1	5
203	Drivers of the Inner Magnetosphere. Geophysical Monograph Series, 0, , 135-145.	0.1	5
204	Global auroral imaging in the ILWS era. Advances in Space Research, 2007, 40, 409-418.	1.2	5
205	Geoefficiency of solar wind discontinuities. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 112-122.	0.6	5
206	Substorm occurrence during quiet solar wind driving. Journal of Geophysical Research: Space Physics, 2014, 119, 2978-2989.	0.8	5
207	Imaging the Plasma Sheet with Energetic Ions from the POLAR Satellite. Astrophysics and Space Science Library, 1998, , 813-816.	1.0	5
208	Ground-based and satellite observations of high-latitude auroral activity in the dusk sector of the auroral oval. Annales Geophysicae, 2001, 19, 1683-1696.	0.6	5
209	Ultraâ€low Frequency Foreshock Waves and Ion Dynamics at Mars. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	5
210	High-altitude polar cap electric field responses to southward turnings of the interplanetary magnetic field. Journal of Geophysical Research, 1998, 103, 26533-26545.	3.3	4
211	Magnetotail currents during the growth phase and local auroral breakup. Geophysical Monograph Series, 2000, , 81-89.	0.1	4
212	Reconciliation of the substorm onset determined on the ground and at the Polar spacecraft. Geophysical Research Letters, 2001, 28, 107-110.	1.5	4
213	Multipulse and double-pulse velocities of Scandinavian Twin Auroral Radar Experiment (STARE) echoes. Radio Science, 2005, 40, n/a-n/a.	0.8	4
214	Storm-substorm coupling during 16 Hours of Dst steadily at â^'150 nT. Geophysical Monograph Series, 0, , 155-161.	0.1	4
215	An influence of long-lasting and gradual magnetic flux transport on fate of magnetotail fast plasma flows: An energetic particle injection substorm event study. Planetary and Space Science, 2014, 101, 135-148.	0.9	4
216	The Space Weather Modeling Framework Goes Open Access. Eos, 2021, 102, .	0.1	4

#	Article	IF	Citations
217	On the dynamical development of the downward field-aligned current in the substorm current wedge. Journal of Geophysical Research, 1995, 100, 14863.	3.3	3
218	First results from the hot plasma instrument PROMICS-3 on Interball-2. Annales Geophysicae, 1999, 17, 659-673.	0.6	3
219	Interplanetary lyman alpha observations of swan during the rising phase of the 23rd solar cycle. Advances in Space Research, 2002, 29, 457-462.	1.2	3
220	Magnetotail flows can consume as much solar wind energy as a substorm. Journal of Geophysical Research, 2003, 108, .	3.3	3
221	An appeal from the Fellows Committee. Eos, 2007, 88, 269-269.	0.1	3
222	The impact on global magnetohydrodynamic simulations from varying initialisation methods: results from GUMICS-4. Annales Geophysicae, 2017, 35, 907-922.	0.6	3
223	Energy requirement of magnetic reconnection during magnetospheric substorms. Advances in Space Research, 1997, 19, 1923-1927.	1.2	2
224	Time-dependent modeling of particles and electromagnetic fields during the substorm growth phase: Anisotropy of energetic electrons. Journal of Geophysical Research, 1999, 104, 10205-10220.	3.3	2
225	Observations of plasma entry into the magnetosphere at late magnetic local times. Advances in Space Research, 2000, 25, 1617-1622.	1.2	2
226	How to address the accuracy of empirical magnetic field models?. Advances in Space Research, 2001, 28, 1717-1726.	1.2	2
227	Storm time ring current magnetic field modeling during May 15, 1997 event. Advances in Space Research, 2002, 30, 2175-2180.	1.2	2
228	Magnetic Field Models in the Inner Magnetosphere. Geophysical Monograph Series, 0, , 161-166.	0.1	2
229	Solar-wind control of plasma sheet dynamics. Annales Geophysicae, 2015, 33, 845-855.	0.6	2
230	GUMICS-4 analysis of interplanetary coronal mass ejection impact on Earth during low and typical Mach number solar winds. Annales Geophysicae, 2019, 37, 561-579.	0.6	2
231	On the dynamical development of the downward field-aligned current in the substorm current wedge. Journal of Geophysical Research, 1995, 100, 14863-14874.	3.3	2
232	Correction to â€œComparison of empirical field models and global MHD simulations: The near-tail currentsâ€•by T. I.Pulkkinen, D. N. Baker, R. J. Walker, J. Raeder, and M. Ashour-Abdalla. Geophysical Research Letters, 1996, 23, 315-316.	1.5	1
233	Reply [to â€œComment on â€œA quantitative assessment of energy storage and release in the Earth's magnetotailâ€, by D. N. Baker, T. I. Pulkkinen, M. Hesse, and R. L. McPherronâ€]. Journal of Geophysical Research, 1998, 103, 17733-17734.	3.3	1
234	Global magnetospheric response to IMF driving: ISTP observations, empirical modeling, and MHD simulations. Physics and Chemistry of the Earth, Part C: Solar, Terrestrial and Planetary Science, 1999, 24, 153-162.	0.2	1

#	Article	IF	Citations
235	Energization of the Inner Magnetosphere by Solar Wind Pressure Pulses. Geophysical Monograph Series, 0, , 113-119.	0.1	1
236	On the response of ionospheric electrojets to solar wind discontinuities. Annales Geophysicae, 2009, 27, 3791-3803.	0.6	1
237	Highâ€Frequency Geomagnetic Fluctuations at Auroral Oval and Polar Cap. Space Weather, 2018, 16, 1057-1072.	1.3	1
238	Locations of proton isotropic boundaries as measured by conjugate high-altitude and low-altitude satellites. Advances in Space Research, 2003, 31, 1265-1270.	1.2	0
239	Global Magnetospheric Dynamics During Magnetic Storms of Different Intensities. Geophysical Monograph Series, 0, , 293-300.	0.1	0
240	Nonlinear solar windâ€"magnetosphere coupling. , 2011, , .		0
241	Preface: Multi-Disciplinary Arctic Research for Science and Society. Surveys in Geophysics, 2014, 35, 1093-1094.	2.1	0
242	Magnetospheric Response Times Following Southward IMF Turnings. Astrophysics and Space Science Library, 1998, , 711-714.	1.0	0
243	Large-Scale Inductive Electric Fields and Anisotropy of Energetic Electrons in the Near-Earth Tail. Astrophysics and Space Science Library, 1998, , 761-766.	1.0	0