

Harald Frey

List of Publications by Year in descending order

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256
papers

9,558
citations

41258

49
h-index

51492

86
g-index

262
all docs

262
docs citations

262
times ranked

3670
citing authors

#	ARTICLE	IF	CITATIONS
1	Control of equatorial ionospheric morphology by atmospheric tides. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	551
2	Tail Reconnection Triggering Substorm Onset. <i>Science</i> , 2008, 321, 931-935.	6.0	551
3	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , 2019, 215, 9.	3.7	332
4	The THEMIS Array of Ground-based Observatories for the Study of Auroral Substorms. <i>Space Science Reviews</i> , 2008, 141, 357-387.	3.7	274
5	Longitudinal structure of the equatorial anomaly in the nighttime ionosphere observed by IMAGE/FUV. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	267
6	Substorm onset observations by IMAGE-FUV. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	246
7	Global distributions and occurrence rates of transient luminous events. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	186
8	The Ionospheric Connection Explorer Mission: Mission Goals and Design. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	152
9	Pulsating aurora from electron scattering by chorus waves. <i>Nature</i> , 2018, 554, 337-340.	13.7	149
10	The THEMIS all-sky imaging array's system design and initial results from the prototype imager. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2006, 68, 1472-1487.	0.6	139
11	Simultaneous Cluster and IMAGE observations of cusp reconnection and auroral proton spot for northward IMF. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	130
12	Continuous magnetic reconnection at Earth's magnetopause. <i>Nature</i> , 2003, 426, 533-537.	13.7	127
13	Intensification of preexisting auroral arc at substorm expansion phase onset: Wave-like disruption during the first tens of seconds. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	126
14	Evidence for a flux transfer event generated by multiple X-line reconnection at the magnetopause. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	126
15	Proton aurora in the cusp. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 2-1.	3.3	115
16	Fast flow during current sheet thinning. <i>Geophysical Research Letters</i> , 2002, 29, 55-1-55-4.	1.5	114
17	The link between a detached subauroral proton arc and a plasmaspheric plume. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	109
18	A state-of-the-art picture of substorm-associated evolution of the near-Earth magnetotail obtained from superposed epoch analysis. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	107

#	ARTICLE	IF	CITATIONS
19	Cusp aurora dependence on interplanetary magnetic field B_z . Journal of Geophysical Research, 2002, 107, SIA 6-1.	3.3	105
20	FAST and IMAGE-FUV observations of a substorm onset. Journal of Geophysical Research, 2003, 108, .	3.3	104
21	Timing of magnetic reconnection initiation during a global magnetospheric substorm onset. Geophysical Research Letters, 2002, 29, 43-1-43-4.	1.5	102
22	Effect of atmospheric tides on the morphology of the quiet time, postsunset equatorial ionospheric anomaly. Journal of Geophysical Research, 2006, 111, .	3.3	102
23	D-region ionization by lightning-induced electromagnetic pulses. Journal of Geophysical Research, 2005, 110, .	3.3	100
24	Localized aurora beyond the auroral oval. Reviews of Geophysics, 2007, 45, .	9.0	98
25	Shock aurora: FAST and DMSP observations. Journal of Geophysical Research, 2003, 108, .	3.3	94
26	Neutral hydrogen density profiles derived from geocoronal imaging. Journal of Geophysical Research, 2003, 108, .	3.3	89
27	Electric fields and electron energies inferred from the ISUAL recorded sprites. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	89
28	Simultaneous THEMIS in situ and auroral observations of a small substorm. Geophysical Research Letters, 2008, 35, .	1.5	89
29	Subauroral proton spots visualize the Pc1 source. Journal of Geophysical Research, 2007, 112, .	3.3	74
30	Discharge processes, electric field, and electron energy in ISUAL-recorded gigantic jets. Journal of Geophysical Research, 2009, 114, .	3.3	73
31	Dipolarization fronts in the magnetotail plasma sheet. Planetary and Space Science, 2011, 59, 517-525.	0.9	73
32	Interplanetary magnetic field control of the location of substorm onset and auroral features in the conjugate hemispheres. Journal of Geophysical Research, 2004, 109, .	3.3	72
33	Precipitation of auroral protons in detached arcs. Geophysical Research Letters, 2002, 29, 14-1.	1.5	67
34	The detailed spatial structure of field-aligned currents comprising the substorm current wedge. Journal of Geophysical Research: Space Physics, 2013, 118, 7714-7727.	0.8	63
35	Observations and model predictions of substorm auroral asymmetries in the conjugate hemispheres. Geophysical Research Letters, 2005, 32, .	1.5	62
36	The electron and proton aurora as seen by IMAGE-FUV and FAST. Geophysical Research Letters, 2001, 28, 1135-1138.	1.5	61

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37	Link between EMIC waves in a plasmaspheric plume and a detached subauroral proton arc with observations of Cluster and IMAGE satellites. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	61
38	Summary of quantitative interpretation of IMAGE far ultraviolet auroral data. <i>Space Science Reviews</i> , 2003, 109, 255-283.	3.7	60
39	Periodic magnetospheric substorms: Multiple space-based and ground-based instrumental observations. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	60
40	Near-Earth initiation of a terrestrial substorm. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	60
41	Modeling elves observed by FORMOSAT-2 satellite. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	59
42	Spatial distribution of rolled up Kelvin-Helmholtz vortices at Earth's dayside and flank magnetopause. <i>Annales Geophysicae</i> , 2012, 30, 1025-1035.	0.6	59
43	Halos generated by negative cloud-to-ground lightning. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	58
44	Timing and localization of ionospheric signatures associated with substorm expansion phase onset. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	58
45	Comparison of results from sprite streamer modeling with spectrophotometric measurements by ISUAL instrument on FORMOSAT-2 satellite. <i>Geophysical Research Letters</i> , 2006, 33, n/a-n/a.	1.5	57
46	Magnetopause reconnection across wide local time. <i>Annales Geophysicae</i> , 2011, 29, 1683-1697.	0.6	57
47	Interplanetary magnetic field control of afternoon-sector detached proton auroral arcs. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 17-1.	3.3	52
48	Radiative emission and energy deposition in transient luminous events. <i>Journal Physics D: Applied Physics</i> , 2008, 41, 234014.	1.3	51
49	Ion outflow observed by IMAGE: Implications for source regions and heating mechanisms. <i>Geophysical Research Letters</i> , 2001, 28, 1163-1166.	1.5	50
50	Observations of non-conjugate theta aurora. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	50
51	Electric field transition between the diffuse and streamer regions of sprites estimated from ISUAL/array photometer measurements. <i>Geophysical Research Letters</i> , 2006, 33, .	1.5	50
52	Substorm triggering by poleward boundary intensification and related equatorward propagation. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	50
53	In situ spatiotemporal measurements of the detailed azimuthal substructure of the substorm current wedge. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 927-946.	0.8	49
54	Sudden solar wind dynamic pressure enhancements and dayside detached auroras: IMAGE and DMSP observations. <i>Journal of Geophysical Research</i> , 2003, 108, COA 2-1.	3.3	48

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55	Subauroral morning proton spots (SAMPS) as a result of plasmopause-ring-current interaction. Journal of Geophysical Research, 2004, 109, .	3.3	46
56	Response to Comment on "Tail Reconnection Triggering Substorm Onset" Science, 2009, 324, 1391-1391.	6.0	45
57	Gigantic jets with negative and positive polarity streamers. Journal of Geophysical Research, 2010, 115, .	3.3	45
58	Large fluxes of auroral electrons in filaments of 100 m width. Journal of Geophysical Research, 1997, 102, 9741-9748.	3.3	44
59	Determination of low latitude plasma drift speeds from FUV images. Geophysical Research Letters, 2003, 30, .	1.5	43
60	IMAGE FUV and in situ FAST particle observations of substorm aurorae. Journal of Geophysical Research, 2003, 108, .	3.3	42
61	Negative ionospheric storms seen by the IMAGE FUV instrument. Journal of Geophysical Research, 2003, 108, .	3.3	42
62	Proton aurora in the cusp during southward IMF. Journal of Geophysical Research, 2003, 108, .	3.3	42
63	Multi-instrument observations of the ionospheric counterpart of a bursty bulk flow in the near-Earth plasma sheet. Annales Geophysicae, 2004, 22, 1061-1075.	0.6	41
64	Extended Magnetic Reconnection across the Dayside Magnetopause. Physical Review Letters, 2011, 107, 025004.	2.9	41
65	Global observations of proton and electron auroras in a substorm. Geophysical Research Letters, 2001, 28, 1139-1142.	1.5	40
66	Total electron and proton energy input during auroral substorms: Remote sensing with IMAGE-FUV. Journal of Geophysical Research, 2002, 107, SMP 15-1-SMP 15-12.	3.3	40
67	Cluster observations in the inner magnetosphere during the 18 April 2002 sawtooth event: Dipolarization and injection at $r = 4.6 R_E$. Journal of Geophysical Research, 2007, 112, .	3.3	40
68	Electric fields and electron energies in sprites and temporal evolutions of lightning charge moment. Journal Physics D: Applied Physics, 2008, 41, 234010.	1.3	40
69	Wavelet-based ULF wave diagnosis of substorm expansion phase onset. Journal of Geophysical Research, 2009, 114, .	3.3	40
70	Global observations of the zonal drift speed of equatorial ionospheric plasma bubbles. Annales Geophysicae, 2004, 22, 3099-3107.	0.6	39
71	The Far Ultra-Violet Imager on the Icon Mission. Space Science Reviews, 2017, 212, 655-696.	3.7	39
72	Beta-type stepped leader of elve-producing lightning. Geophysical Research Letters, 2005, 32, .	1.5	38

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73	ISUAL far-ultraviolet events, elves, and lightning current. Journal of Geophysical Research, 2010, 115, .	3.3	38
74	Statistical behavior of proton and electron auroras during substorms. Journal of Geophysical Research, 2003, 108, .	3.3	37
75	Evidence for subauroral proton flashes on the dayside as the result of the ion cyclotron interaction. Journal of Geophysical Research, 2008, 113, .	3.3	37
76	Multi-scale observations of magnetotail flux transport during IMF-northward non-substorm intervals. Annales Geophysicae, 2007, 25, 1709-1720.	0.6	36
77	Simultaneous radio and satellite optical measurements of high-altitude sprite current and lightning continuing current. Journal of Geophysical Research, 2006, 111, .	3.3	35
78	Observed tail current systems associated with bursty bulk flows and auroral streamers during a period of multiple substorms. Annales Geophysicae, 2008, 26, 167-184.	0.6	35
79	Flux transport, dipolarization, and current sheet evolution during a double-onset substorm. Journal of Geophysical Research, 2011, 116, .	3.3	35
80	Aurora in the Polar Cap: A Review. Space Science Reviews, 2020, 216, 1.	3.7	33
81	Ion upflow enhanced by drifting F-region plasma structure along the nightside polar cap boundary. Geophysical Research Letters, 2003, 30, .	1.5	32
82	Observation of electromagnetic oxygen cyclotron waves in a flickering aurora. Geophysical Research Letters, 1995, 22, 2465-2468.	1.5	31
83	IMF control of cusp proton emission intensity and dayside convection: implications for component and anti-parallel reconnection. Annales Geophysicae, 2003, 21, 955-982.	0.6	31
84	Properties of localized, high latitude, dayside aurora. Journal of Geophysical Research, 2003, 108, .	3.3	30
85	TC-1 observations of flux pileup and dipolarization-associated expansion in the near-Earth magnetotail during substorms. Geophysical Research Letters, 2007, 34, .	1.5	30
86	Proton aurora related to intervals of pulsations of diminishing periods. Journal of Geophysical Research, 2009, 114, .	3.3	30
87	Assessment of sprite initiating electric fields and quenching altitude of N_2^+ state of N_2 using sprite streamer modeling and ISUAL spectrophotometric measurements. Journal of Geophysical Research, 2009, 114, .	3.3	30
88	Shear velocity profiles associated with auroral curls. Journal of Geophysical Research, 1999, 104, 17277-17288.	3.3	29
89	On the generation of enhanced sunward convection and transpolar aurora in the high-latitude ionosphere by magnetic merging. Journal of Geophysical Research, 2005, 110, .	3.3	29
90	Small and meso-scale properties of a substorm onset auroral arc. Journal of Geophysical Research, 2010, 115, .	3.3	29

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91	Dayside Aurora. Space Science Reviews, 2019, 215, 1.	3.7	29
92	Auroral emission profiles extracted from three-dimensionally reconstructed arcs. Journal of Geophysical Research, 1996, 101, 21731-21741.	3.3	28
93	Global Propagation of Magnetospheric Pc5 ULF Waves Driven by Foreshock Transients. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028411.	0.8	28
94	Global view of the nighttime low-latitude ionosphere by the IMAGE/FUV 135.6 nm observations. Geophysical Research Letters, 2003, 30, n/a-n/a.	1.5	26
95	Simultaneous imaging of the reconnection spot in the opposite hemispheres during northward IMF. Geophysical Research Letters, 2005, 32, .	1.5	26
96	Timing and location of substorm onsets from THEMIS satellite and ground based observations. Annales Geophysicae, 2009, 27, 2813-2830.	0.6	26
97	Multistation observations of auroras: Polar cap substorms. Journal of Geophysical Research, 1999, 104, 2333-2342.	3.3	25
98	Relation of substorm onset to Harang discontinuity. Journal of Geophysical Research, 2008, 113, .	3.3	25
99	Multi-instrumentation observations of a transpolar arc in the northern hemisphere. Annales Geophysicae, 2008, 26, 201-210.	0.6	25
100	Southern Hemisphere poleward moving auroral forms. Journal of Geophysical Research, 2003, 108, .	3.3	24
101	Seasonal dependence of localized, high-latitude dayside aurora (HiLDA). Journal of Geophysical Research, 2004, 109, .	3.3	24
102	On the formation of the high-altitude stagnant cusp: Cluster observations. Geophysical Research Letters, 2005, 32, n/a-n/a.	1.5	24
103	Ionospheric response to wave-accelerated electrons at the poleward auroral boundary. Journal of Geophysical Research, 2005, 110, .	3.3	24
104	Dynamic effects of restoring footpoint symmetry on closed magnetic field lines. Journal of Geophysical Research: Space Physics, 2016, 121, 3963-3977.	0.8	24
105	Inverted-V events simultaneously observed with the Freja satellite and from the ground. Geophysical Research Letters, 1994, 21, 1891-1894.	1.5	23
106	Conjugate observations of traveling convection vortices: The field-aligned current system. Journal of Geophysical Research, 2002, 107, S14-1.	3.3	23
107	Hemispheric asymmetry of the afternoon electron aurora. Geophysical Research Letters, 2005, 32, .	1.5	23
108	Interhemispheric observations of emerging polar cap asymmetries. Journal of Geophysical Research, 2010, 115, .	3.3	23

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109	Field line resonances as a trigger and a tracer for substorm onset. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5343-5363.	0.8	23
110	The Imager for Sprites and Upper Atmospheric Lightning (ISUAL). <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8134-8145.	0.8	23
111	Atmospheric gravity wave signatures in the infrared hydroxyl OH airglow. <i>Geophysical Research Letters</i> , 2000, 27, 41-44.	1.5	22
112	Interhemispheric comparison of average substorm onset locations: evidence for deviation from conjugacy. <i>Annales Geophysicae</i> , 2007, 25, 989-999.	0.6	22
113	Multipoint in situ and ground-based observations during auroral intensifications. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	22
114	Statistical study of substorm timing sequence. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	22
115	Timing and localization of near-Earth tail and ionospheric signatures during a substorm onset. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	22
116	The correlation of ULF waves and auroral intensity before, during and after substorm expansion phase onset. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	22
117	Determination of substorm onset timing and location using the THEMIS ground based observatories. <i>Geophysical Research Letters</i> , 2007, 34, .	1.5	21
118	Rice Convection Model simulation of the 18 April 2002 sawtooth event and evidence for interchange instability. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	21
119	Multispacecraft and ground-based observations of substorm timing and activations: Two case studies. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	21
120	Inner magnetospheric onset preceding reconnection and tail dynamics during substorms: Can substorms initiate in two different regions?. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9684-9701.	0.8	21
121	A comprehensive survey of atmospheric quasi 3-day planetary-scale waves and their impacts on the day-to-day variations of the equatorial ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2979-2992.	0.8	21
122	A method for determining the drift velocity of plasma depletions in the equatorial ionosphere using far-ultraviolet spacecraft observations. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	20
123	Sub-oval proton aurora spots: Mapping relatively to the plasmapause. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 99, 61-66.	0.6	20
124	Solar filament impact on 21 January 2005: Geospace consequences. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5401-5448.	0.8	20
125	An interpretation of spacecraft and ground based observations of multiple omega band events. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2015, 133, 185-204.	0.6	20
126	Inferring Nighttime Ionospheric Parameters with the Far Ultraviolet Imager Onboard the Ionospheric Connection Explorer. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	20

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127	The 2D Structure of Foreshock-Driven Field Line Resonances Observed by THEMIS Satellite and Ground-Based Imager Conjunctions. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6792-6811.	0.8	20
128	Multipoint observations of transient reconnection signatures in the cusp precipitation: A Cluster-IMAGE detailed case study. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	19
129	Daytime O/N2 Retrieval Algorithm for the Ionospheric Connection Explorer (ICON). <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	19
130	Ionospheric response to variable electric fields in small-scale auroral structures. <i>Annales Geophysicae</i> , 1998, 16, 1343-1354.	0.6	18
131	Magnetic impulse event: A detailed case study of extended ground and space observations. <i>Journal of Geophysical Research</i> , 2001, 106, 25873-25889.	3.3	18
132	Estimates of magnetotail reconnection rate based on IMAGE FUV and EISCAT measurements. <i>Annales Geophysicae</i> , 2005, 23, 123-134.	0.6	18
133	Absolute optical energy of sprites and its relationship to charge moment of parent lightning discharge based on measurement by ISUAL/AP. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	18
134	Occurrence of elves and lightning during El Niño and La Niña. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	18
135	Proton Aurora and Optical Emissions in the Subauroral Region. <i>Space Science Reviews</i> , 2021, 217, 1.	3.7	18
136	Freja and ground-based analysis of inverted-V events. <i>Journal of Geophysical Research</i> , 1998, 103, 4303-4314.	3.3	17
137	Controlling synoptic-scale factors for the distribution of transient luminous events. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	17
138	Ground and satellite observations of low-latitude red auroras at the initial phase of magnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 256-270.	0.8	17
139	Ionization emissions associated with N ₂ ⁺ 1N band in halos without visible sprite streamers. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 5317-5326.	0.8	17
140	SPACECRAFT BASED STUDIES OF TRANSIENT LUMINOUS EVENTS. <i>NATO Science Series Series II, Mathematics, Physics and Chemistry</i> , 2006, , 123-149.	0.1	17
141	The THEMIS Array of Ground-based Observatories for the Study of Auroral Substorms. , 2009, , 357-387.		17
142	On the Global Occurrence and Impacts of Transient Luminous Events (TLEs). , 2009, , .		16
143	Birth and life of auroral arcs embedded in the evening auroral oval convection: A critical comparison of observations with theory. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	16
144	Impacts of atmospheric ultrafast Kelvin waves on radio scintillations in the equatorial ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 885-891.	0.8	16

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145	Interplanetary shock-induced current sheet disturbances leading to auroral activations: THEMIS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3173-3187.	0.8	16
146	Electric Current Circuits in Astrophysics. <i>Space Science Reviews</i> , 2015, 188, 3-57.	3.7	16
147	Modeling the observed proton aurora and ionospheric convection responses to changes in the IMF clock angle: 2. Persistence of ionospheric convection. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	15
148	Estimating lightning current moment waveforms from satellite optical measurements. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	15
149	Role and origin of the poleward Alfvénic arc. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 2945-2962.	0.8	15
150	Investigation of triggering of poleward moving auroral forms using satellite imager coordinated observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 10,929.	0.8	15
151	Source of the dayside cusp aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7728-7738.	0.8	15
152	Duskside auroral undulations observed by IMAGE and their possible association with large-scale structures on the inner edge of the electron plasma sheet. <i>Geophysical Research Letters</i> , 2005, 32, .	1.5	14
153	Magnetosphere-ionosphere coupling of global Pi2 pulsations. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 2717-2739.	0.8	14
154	The Alfvénic surge at substorm onset/expansion and the formation of Inverted Vs. Cluster and IMAGE observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3978-4004.	0.8	14
155	Electron density images of the middle- and high-latitude magnetosphere in response to the solar wind. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	13
156	ULF waves associated with enhanced subauroral proton precipitation. <i>Geophysical Monograph Series</i> , 2005, , 71-84.	0.1	13
157	Comment on "Substorm triggering by new plasma intrusion: THEMIS all-sky imager observations" by Y. Nishimura et al.. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	13
158	Characteristics and generation of secondary jets and secondary gigantic jets. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	13
159	IMAGE and FAST observations of substorm recovery phase aurora. <i>Geophysical Research Letters</i> , 2002, 29, 43-1.	1.5	12
160	Effect of the 14 July 2000 solar flare on Earth's FUV emissions. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	12
161	Conditions governing localized high-latitude dayside aurora. <i>Geophysical Research Letters</i> , 2004, 31, .	1.5	12
162	Seasonal and interplanetary magnetic field-dependent polar cap contraction during substorm expansion phase. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	12

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163	Strong ionospheric field-aligned currents for radial interplanetary magnetic fields. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3979-3995.	0.8	12
164	Analysis of close conjunctions between dayside polar cap airglow patches and flow channels by all-sky imager and DMSP. <i>Earth, Planets and Space</i> , 2016, 68, .	0.9	12
165	Identifying the occurrence of lightning and transient luminous events by nadir spectrophotometric observation. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 145, 85-97.	0.6	12
166	Hemispheric differences in the response of the upper atmosphere to the August 2011 geomagnetic storm: A simulation study. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 141, 13-26.	0.6	12
167	Postmidnight convection dynamics during substorm expansion phase. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	11
168	Observations of Earth space by self-powered stations in Antarctica. <i>Review of Scientific Instruments</i> , 2009, 80, 124501.	0.6	11
169	ULF waves and discrete aurora. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	11
170	Full-kinetic elve model simulations and their comparisons with the ISUAL observed events. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	11
171	First ICON-FLUV Nighttime NmF2 and hmF2 Comparison to Ground and Space-Based Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029360.	0.8	11
172	Ionospheric signatures of plasma injections in the cusp triggered by solar wind pressure pulses. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	10
173	Local field-aligned currents in the magnetotail and ionosphere as observed by a Cluster, Double Star, and MIRACLE conjunction. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	10
174	The 762 nm emissions of sprites. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	10
175	Satellite limb tomography applied to airglow of the 630 nm emission. <i>Journal of Geophysical Research</i> , 2001, 106, 21367-21380.	3.3	9
176	Substorm topology in the ionosphere and magnetosphere during a flux rope event in the magnetotail. <i>Annales Geophysicae</i> , 2006, 24, 735-750.	0.6	9
177	Observation of isolated high-speed auroral streamers and their interpretation as optical signatures of Alfvén waves generated by bursty bulk flows. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	9
178	Reply to comment by K. Liou and Y.-L. Zhang on "Wavelet-based ULF wave diagnosis of substorm expansion phase onset". <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	9
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