

Rod A Heelis

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/5049640/publications.pdf>

Version: 2024-02-01

238
papers

10,437
citations

34076

52
h-index

45285

90
g-index

245
all docs

245
docs citations

245
times ranked

2727
citing authors

#	ARTICLE	IF	CITATIONS
1	A model of the high-latitude ionospheric convection pattern. <i>Journal of Geophysical Research</i> , 1982, 87, 6339-6345.	3.3	531
2	The effects of interplanetary magnetic field orientation on dayside high-latitude ionospheric convection. <i>Journal of Geophysical Research</i> , 1984, 89, 2873-2880.	3.3	284
3	The theta aurora. <i>Journal of Geophysical Research</i> , 1986, 91, 3177-3224.	3.3	270
4	Rapid subauroral ion drifts observed by Atmosphere Explorer C. <i>Geophysical Research Letters</i> , 1979, 6, 657-660.	1.5	263
5	A proposed production model of rapid subauroral ion drifts and their relationship to substorm evolution. <i>Journal of Geophysical Research</i> , 1993, 98, 6069-6078.	3.3	222
6	IMF \times B_z -dependent plasma flow and Birkeland currents in the dayside magnetosphere: 1. Dynamics Explorer observations. <i>Journal of Geophysical Research</i> , 1985, 90, 1577-1593.	3.3	217
7	The ionospheric signatures of rapid subauroral ion drifts. <i>Journal of Geophysical Research</i> , 1991, 96, 5785-5792.	3.3	217
8	Ion convection velocity reversals in the dayside cleft. <i>Journal of Geophysical Research</i> , 1976, 81, 3803-3809.	3.3	203
9	Theoretical study of the low- and midlatitude ionospheric electron density enhancement during the October 2003 superstorm: Relative importance of the neutral wind and the electric field. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	185
10	Ion convection and the formation of the mid-latitude F_2 region ionization trough. <i>Journal of Geophysical Research</i> , 1978, 83, 4255-4264.	3.3	183
11	Global equatorial ionospheric vertical plasma drifts measured by the AE-E satellite. <i>Journal of Geophysical Research</i> , 1995, 100, 5769.	3.3	183
12	Global distribution of density irregularities in the equatorial ionosphere. <i>Journal of Geophysical Research</i> , 1998, 103, 407-417.	3.3	177
13	Coupling of microprocesses and macroprocesses due to velocity shear: An application to the low-altitude ionosphere. <i>Journal of Geophysical Research</i> , 1994, 99, 8873.	3.3	172
14	Ion-neutral coupling in the high-latitude F_2 region: Evaluation of ion heating terms from Dynamics Explorer 2. <i>Journal of Geophysical Research</i> , 1984, 89, 7495-7508.	3.3	154
15	The Ionospheric Connection Explorer Mission: Mission Goals and Design. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	152
16	Plasma injection and transport in the mid-latitude polar cusp. <i>Geophysical Research Letters</i> , 1982, 9, 921-924.	1.5	147
17	Modeling polar cap F_2 -region patches using time varying convection. <i>Geophysical Research Letters</i> , 1993, 20, 1783-1786.	1.5	122
18	Behavior of the O ⁺ /H ⁺ transition height during the extreme solar minimum of 2008. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	121

#	ARTICLE	IF	CITATIONS
19	Origin of density enhancements in the winter polar cap ionosphere. <i>Radio Science</i> , 1988, 23, 513-519.	0.8	115
20	Longitudinal variations in the equatorial vertical drift in the topside ionosphere. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	113
21	Storm time density enhancements in the middle-latitude dayside ionosphere. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	106
22	A morphological study of vertical ionospheric flows in the high-latitude region. <i>Journal of Geophysical Research</i> , 1991, 96, 3627-3646.	3.3	104
23	Observational evidence for a boundary layer source of dayside region 1 field-aligned currents. <i>Journal of Geophysical Research</i> , 1981, 86, 5577-5589.	3.3	97
24	Ionospheric convection signatures observed by De 2 during northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 1986, 91, 5817-5830.	3.3	97
25	Observations of quiet time vertical ion drift in the equatorial ionosphere during the solar minimum period of 2009. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	94
26	Dayside auroral arcs and convection. <i>Geophysical Research Letters</i> , 1978, 5, 391-394.	1.5	93
27	Low-latitude zonal and vertical ion drifts seen by DE 2. <i>Journal of Geophysical Research</i> , 1989, 94, 6751-6761.	3.3	91
28	Model of the high-latitude ionospheric convection pattern during southward interplanetary magnetic field using DE 2 data. <i>Journal of Geophysical Research</i> , 1990, 95, 2333-2343.	3.3	89
29	Interpretation and modeling of the high-latitude electromagnetic energy flux. <i>Journal of Geophysical Research</i> , 1995, 100, 19715.	3.3	89
30	Dusk-side enhancement of equatorial zonal electric field response to convection electric fields during the St. Patrick's Day storm on 17 March 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 538-548.	0.8	88
31	Particle acceleration parallel and perpendicular to the magnetic field observed by DE-2. <i>Journal of Geophysical Research</i> , 1984, 89, 3893-3902.	3.3	86
32	Observed saturation of the ionospheric polar cap potential during the 31 March 2001 storm. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	82
33	Characteristics of auroral electron acceleration regions observed by Atmosphere Explorer C. <i>Journal of Geophysical Research</i> , 1976, 81, 2223-2230.	3.3	80
34	Plasma density enhancements associated with equatorial spread F: ROCSAT-1 and DMSP observations. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	80
35	Formation of a plasma depletion shell in the equatorial ionosphere. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	78
36	Neutral motions in the polar thermosphere for northward interplanetary magnetic field. <i>Geophysical Research Letters</i> , 1985, 12, 159-162.	1.5	74

#	ARTICLE	IF	CITATIONS
37	Longitudinal variations of electron temperature and total ion density in the sunset equatorial topside ionosphere. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	72
38	Response time of the polar ionospheric convection pattern to changes in the north-south direction of the IMF. <i>Geophysical Research Letters</i> , 1995, 22, 631-634.	1.5	70
39	Seasonal and longitudinal variation of large-scale topside equatorial plasma depletions. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	70
40	Auroral arc electrodynamic parameters measured by AEØ and the Chatanika Radar. <i>Journal of Geophysical Research</i> , 1981, 86, 4671-4685.	3.3	69
41	Measurements of Thermal Ion Drift Velocity and Temperature Using Planar Sensors. <i>Geophysical Monograph Series</i> , 2013, , 61-71.	0.1	67
42	Cusp region particle precipitation and ion convection for northward interplanetary magnetic field. <i>Geophysical Research Letters</i> , 1980, 7, 393-396.	1.5	65
43	EastØwest ion drifts at midØlatitudes observed by Dynamics Explorer 2. <i>Journal of Geophysical Research</i> , 1992, 97, 19461-19469.	3.3	64
44	Effects of electrical coupling on equatorial ionospheric plasma motions: When is the F_2 region a dominant driver in the lowØlatitude dynamo?. <i>Journal of Geophysical Research</i> , 1993, 98, 6033-6037.	3.3	63
45	Transformation of high-latitude ionospheric region patches into blobs during the March 21, 1990, storm. <i>Journal of Geophysical Research</i> , 2000, 105, 5215-5230.	3.3	62
46	Ion Velocity Measurements for the Ionospheric Connections Explorer. <i>Space Science Reviews</i> , 2017, 212, 615-629.	3.7	61
47	Properties of spikelike shear flow reversals observed in the auroral plasma by Atmosphere Explorer C. <i>Journal of Geophysical Research</i> , 1976, 81, 3886-3896.	3.3	59
48	Dayside observations of thermalØion upwellings at 800Økm Altitude: An ionospheric signature of the cleft ion fountain. <i>Journal of Geophysical Research</i> , 1989, 94, 15277-15290.	3.3	59
49	Adaptive identification and characterization of polar ionization patches. <i>Journal of Geophysical Research</i> , 1995, 100, 23819.	3.3	58
50	Ground and Space-Based Measurement of Rocket Engine Burns in the Ionosphere. <i>IEEE Transactions on Plasma Science</i> , 2012, 40, 1267-1286.	0.6	58
51	Evolution of the global aurora during positive IMF B_z and varying IMF B_y conditions. <i>Journal of Geophysical Research</i> , 1997, 102, 17489-17497.	3.3	56
52	Distributions of H^+ at middle and equatorial latitudes during solar maximum. <i>Journal of Geophysical Research</i> , 1990, 95, 10313-10320.	3.3	55
53	Longitude variations in ion composition in the morning and evening topside equatorial ionosphere near solar minimum. <i>Journal of Geophysical Research</i> , 1996, 101, 7951-7960.	3.3	54
54	Challenges to Understanding the Earth's Ionosphere and Thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027497.	0.8	53

#	ARTICLE	IF	CITATIONS
55	Comparison of low-latitude ion and neutral zonal drifts using DE 2 data. <i>Journal of Geophysical Research</i> , 1994, 99, 341.	3.3	52
56	Modeling subauroral polarization streams during the 17 March 2013 storm. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1738-1750.	0.8	52
57	On the relationship between dynamics of the polar thermosphere and morphology of the aurora: Global-scale observations from Dynamics Explorers 1 and 2. <i>Journal of Geophysical Research</i> , 1988, 93, 2675-2692.	3.3	51
58	Modeling daytime F layer patches over Sondrestrom. <i>Radio Science</i> , 1994, 29, 249-268.	0.8	50
59	Structures in ionospheric number density and velocity associated with polar cap ionization patches. <i>Journal of Geophysical Research</i> , 1997, 102, 307-318.	3.3	50
60	The role of zonal winds in the production of a pre-reversal enhancement in the vertical ion drift in the low latitude ionosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	50
61	Multistation measurements of high-latitude ionospheric convection. <i>Journal of Geophysical Research</i> , 1983, 88, 10111-10121.	3.3	49
62	On the current-voltage relationship of the magnetospheric generator at intermediate spatial scales. <i>Geophysical Research Letters</i> , 1986, 13, 495-498.	1.5	49
63	Field-aligned drifts in subauroral ion drift events. <i>Journal of Geophysical Research</i> , 1993, 98, 21493-21499.	3.3	49
64	Summary of field-aligned Poynting flux observations from DE 2. <i>Geophysical Research Letters</i> , 1995, 22, 1861-1864.	1.5	49
65	<i>E</i> and <i>F</i> region study of the evening sector auroral oval: A Chatanika/Dynamics Explorer 2/NOAA 6 comparison. <i>Journal of Geophysical Research</i> , 1987, 92, 2477-2494.	3.3	48
66	A modeling study of the longitudinal dependence of storm time midlatitude dayside total electron content enhancements. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	48
67	ROCSAT 1 ionospheric plasma and electrodynamics instrument observations of equatorial spread F: An early transitional scale result. <i>Journal of Geophysical Research</i> , 2001, 106, 29153-29159.	3.3	46
68	Equatorial plasma bubbles: Variations of occurrence and spatial scale in local time, longitude, season, and solar activity. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5743-5755.	0.8	46
69	Universal time dependence of nighttime F region densities at high latitudes. <i>Journal of Geophysical Research</i> , 1985, 90, 4319-4332.	3.3	45
70	Topside equatorial ionospheric density and composition during and after extreme solar minimum. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	45
71	Distribution of convection potential around the polar cap boundary as a function of the interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 1989, 94, 13447-13461.	3.3	44
72	A Sun-aligned arc observed by DMSP and AE-C. <i>Journal of Geophysical Research</i> , 1985, 90, 9697-9710.	3.3	43

#	ARTICLE	IF	CITATIONS
73	Coherent mesoscale convection patterns during northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 1988, 93, 14501-14514.	3.3	43
74	Field-aligned Poynting Flux observations in the high-latitude ionosphere. <i>Journal of Geophysical Research</i> , 1994, 99, 11417.	3.3	43
75	Structure and occurrence of polar ionization patches. <i>Journal of Geophysical Research</i> , 1998, 103, 2201-2208.	3.3	43
76	Interplanetary magnetic field control of theta aurora development. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 4-1.	3.3	43
77	Spatial distribution of ionospheric plasma and field structures in the high-latitude region. <i>Journal of Geophysical Research</i> , 1998, 103, 6955-6968.	3.3	42
78	Medium-scale equatorial plasma irregularities observed by Coupled Ion-Neutral Dynamics Investigation sensors aboard the Communication Navigation Outage Forecast System in a prolonged solar minimum. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	42
79	Variations in the low- and middle-latitude topside ion concentration observed by DMSP during superstorm events. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	40
80	Ion composition of the topside equatorial ionosphere during solar minimum. <i>Journal of Geophysical Research</i> , 1992, 97, 4299-4303.	3.3	39
81	DMSP F8 observations of the mid-latitude and low-latitude topside ionosphere near solar minimum. <i>Journal of Geophysical Research</i> , 1994, 99, 3817.	3.3	39
82	Ground-based studies of ionospheric convection associated with substorm expansion. <i>Journal of Geophysical Research</i> , 1994, 99, 19451.	3.3	39
83	Solar activity variations in the composition of the low-latitude topside ionosphere. <i>Journal of Geophysical Research</i> , 1997, 102, 295-305.	3.3	39
84	Analysis of the ionospheric cross polar cap potential drop using DMSP data during the National Space Weather Program study period. <i>Journal of Geophysical Research</i> , 1998, 103, 26337-26347.	3.3	39
85	Equatorial density irregularity structures at intermediate scales and their temporal evolution. <i>Journal of Geophysical Research</i> , 1998, 103, 3969-3981.	3.3	38
86	Global and local Joule heating effects seen by DE 2. <i>Journal of Geophysical Research</i> , 1988, 93, 7551-7557.	3.3	37
87	Storming the Bastille: the effect of electric fields on the ionospheric F-layer. <i>Annales Geophysicae</i> , 2010, 28, 977-981.	0.6	37
88	The geomagnetic mass spectrometer's mass and energy dispersions of ionospheric ion flows into the magnetosphere. <i>Nature</i> , 1985, 316, 612-613.	13.7	36
89	Fast equatorial bubbles. <i>Journal of Geophysical Research</i> , 1997, 102, 2039-2045.	3.3	35
90	On TIE-GCM simulation of the evening equatorial plasma vortex. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	35

#	ARTICLE	IF	CITATIONS
91	A model for multiple throat structures in the polar cap flow entry region. Journal of Geophysical Research, 1988, 93, 9785-9790.	3.3	34
92	Upflowing ionospheric ions in the auroral region. Journal of Geophysical Research, 1992, 97, 16855-16863.	3.3	34
93	Seasonal and universal time distribution of patches in the northern and southern polar caps. Journal of Geophysical Research, 1998, 103, 29229-29237.	3.3	34
94	Observation of a large density dropout across the magnetic field at 600 km altitude during the 6â€“7 April 2000 magnetic storm. Journal of Geophysical Research, 2002, 107, SIA 18-1.	3.3	34
95	Ion temperature and density relationships measured by CINDI from the C/NOFS spacecraft during solar minimum. Journal of Geophysical Research, 2010, 115, .	3.3	34
96	Earth's ion upflow associated with polar cap patches: Global and in situ observations. Geophysical Research Letters, 2016, 43, 1845-1853.	1.5	34
97	Longitudinal and seasonal variations of the equatorial ionospheric ion density and eastward drift velocity in the dusk sector. Journal of Geophysical Research, 2010, 115, .	3.3	33
98	Multiple auroral arcs and Birkeland currents: Evidence for plasma sheet boundary waves. Geophysical Research Letters, 1986, 13, 805-808.	1.5	32
99	Thermospheric dynamics during November 21â€“22, 1981: Dynamics Explorer measurements and thermospheric general circulation model predictions. Journal of Geophysical Research, 1988, 93, 209-225.	3.3	32
100	How wide in magnetic local time is the cusp? An event study. Journal of Geophysical Research, 1997, 102, 4765-4776.	3.3	32
101	C/NOFS observations of the equatorial ionospheric electric field response to the 2009 major sudden stratospheric warming event. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	32
102	Polar cap deflation during magnetospheric substorms. Journal of Geophysical Research, 1989, 94, 3785-3789.	3.3	31
103	High-latitude ionospheric convection pattern during steady northward interplanetary magnetic field. Journal of Geophysical Research, 1995, 100, 14537.	3.3	31
104	Thermospheric and ionospheric structure of the southern hemisphere polar cap on October 21, 1981, as determined from Dynamics Explorer 2 satellite data. Journal of Geophysical Research, 1985, 90, 6553-6566.	3.3	30
105	Studies of ionospheric plasma and electrodynamics and their application to ionosphereâ€“magnetosphere coupling. Reviews of Geophysics, 1988, 26, 317-328.	9.0	30
106	Storm time plasma irregularities in the pre-dawn hours observed by the low-latitude ROCSAT-1 satellite at 600 km altitude. Geophysical Research Letters, 2001, 28, 685-688.	1.5	30
107	Onset conditions of bubbles and blobs: A case study on 2 March 2009. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	30
108	Characteristics of lowâ€“latitude ionospheric depletions and enhancements during solar minimum. Journal of Geophysical Research, 2012, 117, .	3.3	30

#	ARTICLE	IF	CITATIONS
109	Source of the low-altitude hiss in the ionosphere. <i>Geophysical Research Letters</i> , 2017, 44, 2060-2069.	1.5	30
110	Effects of electric field methods on modeling the midlatitude ionospheric electrodynamics and inner magnetosphere dynamics. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5321-5338.	0.8	30
111	Ion temperature troughs and interhemispheric transport observed in the equatorial ionosphere. <i>Journal of Geophysical Research</i> , 1978, 83, 3683-3689.	3.3	29
112	Electron temperatures during rapid subauroral ion drift events. <i>Annales Geophysicae</i> , 1998, 16, 450-459.	0.6	29
113	Characteristics of ion velocity structure at high latitudes during steady southward interplanetary magnetic field conditions. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	28
114	Neutral wind effect in producing a storm time ionospheric additional layer in the equatorial ionization anomaly region. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	28
115	High-latitude plasma outflow as measured by the DMSP spacecraft. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	27
116	Influences of geomagnetic fields on longitudinal variations of vertical plasma drifts in the presunset equatorial topside ionosphere. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	27
117	Observed Propagation Route of VLF Transmitter Signals in the Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 5528-5537.	0.8	27
118	Ionospheric flows associated with a transpolar arc. <i>Journal of Geophysical Research</i> , 1990, 95, 21169-21178.	3.3	26
119	The Mid-Latitude Trough-Revisited. <i>Geophysical Monograph Series</i> , 0, , 25-33.	0.1	26
120	Electrical coupling effects on the temporal evolution of F layer plasma structure. <i>Journal of Geophysical Research</i> , 1985, 90, 437-445.	3.3	25
121	Four cells or two? Are four convection cells really necessary?. <i>Journal of Geophysical Research</i> , 1994, 99, 3955.	3.3	25
122	Ionospheric storm time dynamics as seen by GPS tomography and in situ spacecraft observations. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	25
123	WN4 effect on longitudinal distribution of different ion species in the topside ionosphere at low latitudes by means of DEMETER, DMSP-F13 and DMSP-F15 data. <i>Annales Geophysicae</i> , 2009, 27, 2893-2902.	0.6	25
124	Lower-thermosphere-ionosphere (LTI) quantities: current status of measuring techniques and models. <i>Annales Geophysicae</i> , 2021, 39, 189-237.	0.6	25
125	Regulation of ionospheric plasma velocities by thermospheric winds. <i>Nature Geoscience</i> , 2021, 14, 893-898.	5.4	25
126	The polar ionosphere. <i>Reviews of Geophysics</i> , 1982, 20, 567-576.	9.0	24

#	ARTICLE	IF	CITATIONS
127	Magnetic field-aligned coupling effects on ionospheric plasma structure. Journal of Geophysical Research, 1990, 95, 7995-8008.	3.3	24
128	Observations of low-latitude plasma density enhancements and their associated plasma drifts. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	24
129	Topside signature of medium-scale traveling ionospheric disturbances. Annales Geophysicae, 2014, 32, 959-965.	0.6	24
130	Measurement of magnetic field aligned potential differences using high resolution conjugate photoelectron energy spectra. Geophysical Research Letters, 1977, 4, 373-376.	1.5	22
131	Combining electric field and aurora observations from DE 1 and 2 with ground magnetometer records to estimate ionospheric electromagnetic quantities. Journal of Geophysical Research, 1989, 94, 6723-6738.	3.3	22
132	Storm time signatures of the ionospheric zonal ion drift at middle latitudes. Journal of Geophysical Research, 2009, 114, .	3.3	22
133	Exploring the role of ionospheric drivers during the extreme solar minimum of 2008. Annales Geophysicae, 2013, 31, 2147-2156.	0.6	21
134	A feature of the behavior of He ⁺ in the nightside high-latitude ionosphere during equinox. Journal of Geophysical Research, 1981, 86, 59-64.	3.3	20
135	Observations of ionospheric magnetospheric coupling: DE and Chatanika coincidences. Journal of Geophysical Research, 1986, 91, 5803-5815.	3.3	20
136	A Comparison of in situ measurements of and from Dynamics Explorer 2. Journal of Geophysical Research, 1993, 98, 21501-21516.	3.3	20
137	Response of the topside ionosphere to recurrent geomagnetic activity. Journal of Geophysical Research, 2010, 115, .	3.3	20
138	Ion drift meter calibration and photoemission correction for the C/NOFS satellite. Journal of Geophysical Research, 2012, 117, .	3.3	20
139	Three-dimensional numerical simulations of equatorial spread <i>F₂</i> : Results and observations in the Pacific sector. Journal of Geophysical Research, 2012, 117, .	3.3	20
140	Solar filament impact on 21 January 2005: Geospace consequences. Journal of Geophysical Research: Space Physics, 2014, 119, 5401-5448.	0.8	20
141	The Ion/Electron Temperature Characteristics of Polar Cap Classical and Hot Patches and Their Influence on Ion Upflow. Geophysical Research Letters, 2018, 45, 8072-8080.	1.5	20
142	Velocity spike at the poleward edge of the auroral zone. Journal of Geophysical Research, 1984, 89, 1627-1634.	3.3	19
143	The HiLat satellite mission. Radio Science, 1985, 20, 416-424.	0.8	19
144	Ionospheric convection signatures and magnetic field topology. Journal of Geophysical Research, 1987, 92, 12352-12364.	3.3	19

#	ARTICLE	IF	CITATIONS
145	Response of the ionospheric convection pattern to a rotation of the interplanetary magnetic field on January 14, 1988. <i>Journal of Geophysical Research</i> , 1992, 97, 19449-19460.	3.3	19
146	Three-dimensional ionospheric plasma circulation. <i>Journal of Geophysical Research</i> , 1992, 97, 13903-13910.	3.3	18
147	The influence of hemispheric asymmetries on field-aligned ion drifts at the geomagnetic equator. <i>Geophysical Research Letters</i> , 2012, 39, .	1.5	18
148	Global Modeling of Storm-Time Thermospheric Dynamics and Electrodynamics. <i>Geophysical Monograph Series</i> , 0, , 187-200.	0.1	18
149	Low latitude thermospheric responses to magnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3866-3876.	0.8	18
150	Topside equatorial zonal ion velocities measured by C/NOFS during rising solar activity. <i>Annales Geophysicae</i> , 2014, 32, 69-75.	0.6	18
151	Dynamics Explorer observations of equatorial spread F: Evidence for drift waves. <i>Geophysical Research Letters</i> , 1982, 9, 993-996.	1.5	17
152	Effects of zonal winds and metallic ions on the behavior of intermediate layers. <i>Journal of Geophysical Research</i> , 1995, 100, 7829.	3.3	17
153	Characteristics of high-latitude vertical plasma flow from the Defense Meteorological Satellite Program. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	17
154	Combined Contribution of Solar Illumination, Solar Activity, and Convection to Ion Upflow Above the Polar Cap. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4317-4328.	0.8	17
155	Observations of shock impact, disturbance dynamo effect, and a midlatitude large-density depletion at 600 km altitude on the 17 April 2002 storm day. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	16
156	Quiet time meridional (vertical) ion drifts at low and middle latitudes observed by ROCSAT. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	16
157	Response of the ionospheric convection reversal boundary at high latitudes to changes in the interplanetary magnetic field. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5022-5034.	0.8	16
158	Large-scale O ⁺ Depletions Observed by ICON in the Post-Midnight Topside Ionosphere: Data/Model Comparison. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL092061.	1.5	16
159	The HILAT program. <i>Eos</i> , 1983, 64, 163-170.	0.1	15
160	MITHRAS: A brief description. <i>Radio Science</i> , 1984, 19, 665-673.	0.8	15
161	Coordinated radar and optical measurements of stable auroral arcs at the polar cap boundary. <i>Journal of Geophysical Research</i> , 1991, 96, 17847-17863.	3.3	15
162	Ion and neutral motions observed in the winter polar upper atmosphere. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 17-1-SIA 17-7.	3.3	15

#	ARTICLE	IF	CITATIONS
163	Seasonal and latitudinal distributions of the dominant light ions at 600 km topside ionosphere from 1999 to 2002. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	15
164	Latitude and local time variations of topside magnetic field-aligned ion drifts at solar minimum. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	15
165	Vertical ExB drifts from radar and C/NOFS observations in the Indian and Indonesian sectors: Consistency of observations and model. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3777-3788.	0.8	15
166	Errors in ram velocity and temperature measurements inferred from satellite-borne retarding potential analyzers. <i>Physics of Plasmas</i> , 2008, 15, 062905.	0.7	14
167	Electrostatic potential drop across the ionospheric signature of the low-latitude boundary layer. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	14
168	Superrotation of the ionosphere and quiet time zonal ion drifts at low and middle latitudes observed by Republic of China Satellite-1 (ROCSAT-1). <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	14
169	Atmosphere-Ionosphere (A-I) Coupling as Viewed by ICON: Day-to-Day Variability Due to Planetary Wave (PW)-Tide Interactions. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028927.	0.8	14
170	Plasma and field properties of suprathermal electron bursts. <i>Journal of Geophysical Research</i> , 1989, 94, 12031-12036.	3.3	13
171	A modelling study of the latitudinal variations in the nighttime plasma temperatures of the equatorial topside ionosphere during northern winter at solar maximum. <i>Annales Geophysicae</i> , 2000, 18, 1435-1446.	0.6	13
172	Variations of thermospheric composition according to AE-C data and CTIP modelling. <i>Annales Geophysicae</i> , 2004, 22, 441-452.	0.6	13
173	Low-latitude measurements of neutral thermospheric helium dominance near 400 km during extreme solar minimum. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	13
174	Equatorial longitude and local time variations of topside magnetic field-aligned ion drifts at solar minimum. <i>Journal of Geophysical Research</i> , 2012, 117, n/a-n/a.	3.3	13
175	On relationships between horizontal velocity structure and thermal ion upwellings at high latitudes. <i>Geophysical Research Letters</i> , 1999, 26, 1829-1832.	1.5	12
176	Radio-tomographic images of postmidnight equatorial plasma depletions. <i>Geophysical Research Letters</i> , 2014, 41, 13-19.	1.5	12
177	Impact of Flow Bursts in the Auroral Zone on the Ionosphere and Thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10459-10467.	0.8	12
178	Rocket and satellite observations of electric fields and ion convection in the dayside auroral ionosphere. <i>Canadian Journal of Physics</i> , 1986, 64, 1417-1425.	0.4	11
179	Low- and Middle-Latitude Ionospheric Dynamics Associated with Magnetic Storms. <i>Geophysical Monograph Series</i> , 0, , 51-61.	0.1	11
180	Supercooled ion temperatures observed in the topside ionosphere at dawn meridian during storm periods. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	10

#	ARTICLE	IF	CITATIONS
181	A statistical analysis of systematic errors in temperature and ram velocity estimates from satellite-borne retarding potential analyzers. <i>Physics of Plasmas</i> , 2009, 16, .	0.7	10
182	Identifying equatorial ionospheric irregularities using in situ ion drifts. <i>Annales Geophysicae</i> , 2014, 32, 421-429.	0.6	10
183	The Plasma Environment Associated With Equatorial Ionospheric Irregularities. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1583-1592.	0.8	10
184	Mesoscale Plasma Convection Perturbations in the High-Latitude Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 7609-7620.	0.8	10
185	Ion Velocity and Temperature Variation Around Topside Nighttime Irregularities: Contrast Between Low- and Mid-Latitude Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028810.	0.8	10
186	IMF Changes and Polar-Cap Electric Fields and Currents. <i>Astrophysics and Space Science Library</i> , 1979, , 47-62.	1.0	10
187	Electrodynamics and plasma processes in the ionosphere. <i>Reviews of Geophysics</i> , 1987, 25, 419-431.	9.0	9
188	The Linkage between the Ring Current and the Ionosphere System. <i>Geophysical Monograph Series</i> , 0, , 135-143.	0.1	9
189	Response of the topside ionosphere to high-speed solar wind streams. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	9
190	Effects of Alignment Between Particle Precipitation and Ion Convection Patterns on Joule Heating. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4905-4915.	0.8	9
191	Topside Plasma Flows in the Equatorial Ionosphere and Their Relationships to F-Region Winds Near 250 Åkm. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	9
192	Relative solar and auroral contribution to the polar F-region: Implications for National Space Weather Program. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 15-1.	3.3	8
193	Reply to Tsurutani et al.'s comment on "Storming the Bastille: the effect of electric fields on the ionospheric F-layer" by Rishbeth et al. (2010). <i>Annales Geophysicae</i> , 2013, 31, 151-152.	0.6	8
194	Coordinated Satellite Observations of the Very Low Frequency Transmission Through the Ionospheric D Layer at Low Latitudes, Using Broadband Radio Emissions From Lightning. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2926-2952.	0.8	8
195	Stormtime measurements of topside ionospheric upflow from Defense Meteorological Satellite Program. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	7
196	A numerical study of geometry dependent errors in velocity, temperature, and density measurements from single grid planar retarding potential analyzers. <i>Physics of Plasmas</i> , 2010, 17, .	0.7	7
197	A comparison of ionospheric O ⁺ transition height derived from ion composition measurements and the topside ion density profiles over equatorial latitudes. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	7
198	Response of the equatorial topside ionosphere to 27-day variations in solar EUV input during a low solar activity period using C/NOFS. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	7

#	ARTICLE	IF	CITATIONS
199	Motions of the Convection Reversal Boundary and Local Plasma in the High-Latitude Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 2953-2963.	0.8	7
200	Sensitivity of Upper Atmosphere to Different Characteristics of Flow Bursts in the Auroral Zone. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029253.	0.8	7
201	Magnetospheric multiscale and global electrodynamics missions. <i>Geophysical Monograph Series</i> , 1999, 125, 225-235.	0.1	6
202	Daytime altitude variations of the equatorial, topside magnetic field-aligned ion transport at solar minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3568-3575.	0.8	6
203	A method to estimate whistler wave vector from polarization using three-component electric field data. <i>Radio Science</i> , 2014, 49, 131-145.	0.8	6
204	Daytime zonal drifts in the ionospheric 150 Åm and $\langle i \rangle E \langle i \rangle$ regions estimated using EAR observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9045-9055.	0.8	6
205	Plasma Dynamics Associated With Equatorial Ionospheric Irregularities. <i>Geophysical Research Letters</i> , 2018, 45, 7927-7932.	1.5	6
206	The Low Altitude Cleft: Plasma Entry and Magnetospheric Topology. , 1983, , 57-72.		6
207	Dynamics Explorer Measurements of Particles, Fields, and Plasma Drifts Over a Horse-Collar Auroral Pattern.. <i>Journal of Geomagnetism and Geoelectricity</i> , 1992, 44, 1225-1237.	0.8	6
208	Midlatitude Ionospheric Dynamics and Disturbances: Introduction. <i>Geophysical Monograph Series</i> , 0, , 1-7.	0.1	5
209	Specifying the equatorial ionosphere using CINDI on C/NOFS, COSMIC, and data interpolating empirical orthogonal functions. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6706-6722.	0.8	5
210	In situ irregularity identification and scintillation estimation using wavelets and CINDI on C/NOFS. <i>Radio Science</i> , 2013, 48, 388-395.	0.8	5
211	Plasma and convection reversal boundary motions in the high-Latitude ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5752-5763.	0.8	5
212	Isolated Peak of Oxygen Ion Fraction in the Post-Noon Equatorial F-Region: ICON and SAMI3/WACCM-X. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029217.	0.8	5
213	Interplanetary Magnetic Field Effects on High Latitude Ionospheric Convection. , 1985, , 293-303.		5
214	Storm time meridional wind perturbations in the equatorial upper thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2756-2764.	0.8	4
215	Automated identification of discrete, lightning-generated, multiple-dispersed whistler waves in C/NOFS-VEFI very low frequency observations. <i>Radio Science</i> , 2016, 51, 1547-1569.	0.8	4
216	Modeling the daytime energy balance of the topside ionosphere at middle latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5733-5742.	0.8	4

#	ARTICLE	IF	CITATIONS
217	Ion Cyclotron Resonant Absorption Lines in ELF Hiss Power Spectral Density in the Low-Latitude Ionosphere. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL086315.	1.5	4
218	Q2DW-tide and -ionosphere interactions as observed from ICON and ground-based radars. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029961.	0.8	4
219	Atmospheric Lunar Tide in the Low Latitude Thermosphere-ionosphere. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	4
220	Regional, scale size, and interplanetary magnetic field variability of magnetic field and ion drift structures in the high-latitude ionosphere. <i>Journal of Geophysical Research</i> , 1999, 104, 199-212.	3.3	3
221	Comparison of topside equatorial parameters derived from DMSP, Jicamarca, and Another Model of the Ionosphere (SAM2). <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	3
222	Daytime ion and electron temperatures in the topside ionosphere at middle latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2202-2209.	0.8	3
223	The High Latitude Ionospheric Convection Pattern. <i>Journal of Geomagnetism and Geoelectricity</i> , 1991, 43, 245-257.	0.8	3
224	A modified CTIP model and comparisons with DMSP satellite data. <i>Philosophical Transactions Series A, Mathematical, Physical, and Engineering Sciences</i> , 2003, 361, 139-142.	1.6	2
225	A Digest of Electrodynamic Coupling and Layer Instabilities in the Nighttime Midlatitude Ionosphere. <i>Geophysical Monograph Series</i> , 0, , 283-290.	0.1	2
226	Impact of the Neutral Wind Dynamo on the Development of the Region 2 Dynamo. <i>Geophysical Monograph Series</i> , 0, , 179-186.	0.1	2
227	Unique latitudinal shape of ion upper transition height (HT) surface during deep solar minimum (2008-2009). <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1419-1427.	0.8	2
228	Temporal Characteristic of the Mesoscale Plasma Flow Perturbations in the High-Latitude Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 459-469.	0.8	2
229	Thermal Ion Drifts in the Dayside High-Latitude Ionosphere. , 1994, , 43-57.		2
230	William B. Hanson 1923 - 1994: A retrospective. <i>Journal of Geophysical Research</i> , 1997, 102, 2035-2038.	3.3	1
231	Longitudinal ionospheric effects in the South Atlantic evening sector during solar maximum. <i>Journal of Geophysical Research</i> , 2002, 107, SIA 3-1.	3.3	1
232	Mapping the duskside topside ionosphere with CINDI and DMSP. <i>Journal of Geophysical Research</i> , 2010, 115, n/a-n/a.	3.3	1
233	Measurement of Individual H + and O + Ion Temperatures in the Topside Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1525-1533.	0.8	1
234	Spatial Characteristics of Mesoscale Plasma Flow Perturbations and Accompanying Electron Precipitation in the High-Latitude Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10444-10458.	0.8	1

#	ARTICLE	IF	CITATIONS
235	Low-Latitude Whistler-Wave Spectra and Polarization From VEFI and CINDI Payloads on C/NOFS Satellite. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027074.	0.8	1
236	Using insitu satellite data to describe global scale variations in space weather. , 2004, , .		0
237	Characterization of the electric potential distribution and large scale auroral zone flows in the ionosphere. Journal of Geophysical Research, 2010, 115, .	3.3	0
238	The Nightside Ionosphere: Ionospheric Convection during an Isolated Substorm on October 21, 1981. Journal of Geomagnetism and Geoelectricity, 1996, 48, 915-923.	0.8	0