

Rod A Heelis

List of Publications by Citations

Source: <https://exaly.com/author-pdf/5049640/rod-a-heelis-publications-by-citations.pdf>

Version: 2024-04-19

This document has been generated based on the publications and citations recorded by exaly.com. For the latest version of this publication list, visit the link given above.

The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

240
papers

8,696
citations

49
h-index

81
g-index

245
ext. papers

9,378
ext. citations

3.9
avg, IF

5.71
L-index

#	Paper	IF	Citations
240	A model of the high-latitude ionospheric convection pattern. <i>Journal of Geophysical Research</i> , 1982 , 87, 6339		462
239	The effects of interplanetary magnetic field orientation on dayside high-latitude ionospheric convection. <i>Journal of Geophysical Research</i> , 1984 , 89, 2873		249
238	The theta aurora. <i>Journal of Geophysical Research</i> , 1986 , 91, 3177		238
237	Rapid subauroral ion drifts observed by Atmosphere Explorer C. <i>Geophysical Research Letters</i> , 1979 , 6, 657-660	4.9	213
236	IMF By -dependent plasma flow and Birkeland currents in the dayside magnetosphere: 1. Dynamics Explorer observations. <i>Journal of Geophysical Research</i> , 1985 , 90, 1577		189
235	Ion convection velocity reversals in the dayside cleft. <i>Journal of Geophysical Research</i> , 1976 , 81, 3803-3809		182
234	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		176
233	The ionospheric signatures of rapid subauroral ion drifts. <i>Journal of Geophysical Research</i> , 1991 , 96, 5785		173
232	Ion convection and the formation of the mid-latitude F region ionization trough. <i>Journal of Geophysical Research</i> , 1978 , 83, 4255		161
231	Global equatorial ionospheric vertical plasma drifts measured by the AE-E satellite. <i>Journal of Geophysical Research</i> , 1995 , 100, 5769		153
230	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,		151
229	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		147
228	Global distribution of density irregularities in the equatorial ionosphere. <i>Journal of Geophysical Research</i> , 1998 , 103, 407-417		138
227	Ion-neutral coupling in the high-latitude F region: Evaluation of ion heating terms from Dynamics Explorer 2. <i>Journal of Geophysical Research</i> , 1984 , 89, 7495-7508		136
226	Plasma injection and transport in the mid-altitude polar cusp. <i>Geophysical Research Letters</i> , 1982 , 9, 921-924		127
225	Behavior of the O ⁺ /H ⁺ transition height during the extreme solar minimum of 2008. <i>Geophysical Research Letters</i> , 2009 , 36,	4.9	105
224	Modeling polar cap F-region patches using time varying convection. <i>Geophysical Research Letters</i> , 1993 , 20, 1783-1786	4.9	104

223	Origin of density enhancements in the winter polar cap ionosphere. <i>Radio Science</i> , 1988 , 23, 513-519	1.4	100
222	Longitudinal variations in the equatorial vertical drift in the topside ionosphere. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		96
221	A morphological study of vertical ionospheric flows in the high-latitude F region. <i>Journal of Geophysical Research</i> , 1991 , 96, 3627		92
220	Observational evidence for a boundary layer source of dayside region 1 field-aligned currents. <i>Journal of Geophysical Research</i> , 1981 , 86, 5577		91
219	Storm time density enhancements in the middle-latitude dayside ionosphere. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		88
218	Ionospheric convection signatures observed by De 2 during northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 1986 , 91, 5817		88
217	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		84
216	Low-latitude zonal and vertical ion drifts seen by DE 2. <i>Journal of Geophysical Research</i> , 1989 , 94, 6751-6761		82
215	Dayside auroral arcs and convection. <i>Geophysical Research Letters</i> , 1978 , 5, 391-394	4.9	82
214	Particle acceleration parallel and perpendicular to the magnetic field observed by DE-2. <i>Journal of Geophysical Research</i> , 1984 , 89, 3893		80
213	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		76
212	Characteristics of auroral electron acceleration regions observed by Atmosphere Explorer C. <i>Journal of Geophysical Research</i> , 1976 , 81, 2223-2230		76
211	Interpretation and modeling of the high-latitude electromagnetic energy flux. <i>Journal of Geophysical Research</i> , 1995 , 100, 19715		75
210	Duskside 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	2.6	74
209	Observed saturation of the ionospheric polar cap potential during the 31 March 2001 storm. <i>Geophysical Research Letters</i> , 2003 , 30,	4.9	72
208	The Ionospheric Connection Explorer Mission: Mission Goals and Design. <i>Space Science Reviews</i> , 2018 , 214, 1	7.5	68
207	Neutral motions in the polar thermosphere for northward interplanetary magnetic field. <i>Geophysical Research Letters</i> , 1985 , 12, 159-162	4.9	65
206	Auroral arc electrodynamic parameters measured by AE-C and the Chatanika Radar. <i>Journal of Geophysical Research</i> , 1981 , 86, 4671-4685		65

205	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	4.9	63
204	Seasonal and longitudinal variation of large-scale topside equatorial plasma depletions. <i>Journal of Geophysical Research</i> , 2005 , 110,		60
203	Formation of a plasma depletion shell in the equatorial ionosphere. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		59
202	Longitudinal variations of electron temperature and total ion density in the sunset equatorial topside ionosphere. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	59
201	Plasma density enhancements associated with equatorial spread F: ROCSAT-1 and DMSP observations. <i>Journal of Geophysical Research</i> , 2003 , 108,		59
200	Transformation of high-latitude ionospheric F region patches into blobs during the March 21, 1990, storm. <i>Journal of Geophysical Research</i> , 2000 , 105, 5215-5230		58
199	Effects of electrical coupling on equatorial ionospheric plasma motions: When is the F region a dominant driver in the low-latitude dynamo?. <i>Journal of Geophysical Research</i> , 1993 , 98, 6033-6037		58
198	East-west ion drifts at mid-latitudes observed by Dynamics Explorer 2. <i>Journal of Geophysical Research</i> , 1992 , 97, 19461		58
197	Cusp region particle precipitation and ion convection for northward interplanetary magnetic field. <i>Geophysical Research Letters</i> , 1980 , 7, 393-396	4.9	57
196	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		54
195	Measurements of Thermal Ion Drift Velocity and Temperature Using Planar Sensors. <i>Geophysical Monograph Series</i> , 2013 , 61-71	1.1	53
194	Dayside observations of thermal-ion upwellings at 800-km Altitude: An ionospheric signature of the cleft ion fountain. <i>Journal of Geophysical Research</i> , 1989 , 94, 15277		53
193	Adaptive identification and characterization of polar ionization patches. <i>Journal of Geophysical Research</i> , 1995 , 100, 23819		52
192	Evolution of the global aurora during positive IMF Bz and varying IMF By conditions. <i>Journal of Geophysical Research</i> , 1997 , 102, 17489-17497		50
191	Distributions of He+ at middle and equatorial latitudes during solar maximum. <i>Journal of Geophysical Research</i> , 1990 , 95, 10313		48
190	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		47
189	Comparison of low-latitude ion and neutral zonal drifts using DE 2 data. <i>Journal of Geophysical Research</i> , 1994 , 99, 341		46
188	Modeling daytime F layer patches over Sondrestrom. <i>Radio Science</i> , 1994 , 29, 249-268	1.4	46

187	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		45
186	Multistation measurements of high-latitude ionospheric convection. <i>Journal of Geophysical Research</i> , 1983 , 88, 10111		45
185	E and F 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		44
184	Structures in ionospheric number density and velocity associated with polar cap ionization patches. <i>Journal of Geophysical Research</i> , 1997 , 102, 307-318		43
183	A modeling study of the longitudinal dependence of storm time midlatitude dayside total electron content enhancements. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		42
182	A Sun-aligned arc observed by DMSP and AE-C. <i>Journal of Geophysical Research</i> , 1985 , 90, 9697		42
181	On the current-voltage relationship of the magnetospheric generator at intermediate spatial scales. <i>Geophysical Research Letters</i> , 1986 , 13, 495-498	4-9	42
180	Ground and Space-Based Measurement of Rocket Engine Burns in the Ionosphere. <i>IEEE Transactions on Plasma Science</i> , 2012 , 40, 1267-1286	1-3	40
179	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, n/a-n/a		39
178	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		39
177	Summary of field-aligned Poynting flux observations from DE 2. <i>Geophysical Research Letters</i> , 1995 , 22, 1861-1864	4-9	39
176	Field-aligned drifts in subauroral ion drift events. <i>Journal of Geophysical Research</i> , 1993 , 98, 21493-21499		39
175	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		39
174	Universal time dependence of nighttime F region densities at high latitudes. <i>Journal of Geophysical Research</i> , 1985 , 90, 4319		39
173	DMSP F8 observations of the mid-latitude and low-latitude topside ionosphere near solar minimum. <i>Journal of Geophysical Research</i> , 1994 , 99, 3817		38
172	Field-aligned Poynting Flux observations in the high-latitude ionosphere. <i>Journal of Geophysical Research</i> , 1994 , 99, 11417		38
171	Spatial distribution of ionospheric plasma and field structures in the high-latitude F region. <i>Journal of Geophysical Research</i> , 1998 , 103, 6955-6968		37
170	Structure and occurrence of polar ionization patches. <i>Journal of Geophysical Research</i> , 1998 , 103, 2201-2208		37

169	Modeling subauroral polarization streams during the 17 March 2013 storm. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 1738-1750	2.6	36
168	Topside equatorial ionospheric density and composition during and after extreme solar minimum. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		34
167	Storming the Bastille: the effect of electric fields on the ionospheric F-layer. <i>Annales Geophysicae</i> , 2010 , 28, 977-981	2	34
166	Observation of a large density dropout across the magnetic field at 600 km altitude during the 6 th April 2000 magnetic storm. <i>Journal of Geophysical Research</i> , 2002 , 107, SIA 18-1		34
165	Interplanetary magnetic field control of theta aurora development. <i>Journal of Geophysical Research</i> , 2002 , 107, SIA 4-1		34
164	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		34
163	Ground-based studies of ionospheric convection associated with substorm expansion. <i>Journal of Geophysical Research</i> , 1994 , 99, 19451		34
162	Ion composition of the topside equatorial ionosphere during solar minimum. <i>Journal of Geophysical Research</i> , 1992 , 97, 4299		34
161	Coherent mesoscale convection patterns during northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 1988 , 93, 14501		34
160	The geomagnetic mass spectrometer—mass and energy dispersions of ionospheric ion flows into the magnetosphere. <i>Nature</i> , 1985 , 316, 612-613	50.4	34
159	Solar activity variations in the composition of the low-latitude topside ionosphere. <i>Journal of Geophysical Research</i> , 1997 , 102, 295-305		33
158	A model for multiple throat structures in the polar cap flow entry region. <i>Journal of Geophysical Research</i> , 1988 , 93, 9785		33
157	Variations in the low- and middle-latitude topside ion concentration observed by DMSP during superstorm events. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		32
156	Equatorial density irregularity structures at intermediate scales and their temporal evolution. <i>Journal of Geophysical Research</i> , 1998 , 103, 3969-3981		32
155	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, n/a-n/a		30
154	Global and local Joule heating effects seen by DE 2. <i>Journal of Geophysical Research</i> , 1988 , 93, 7551		30
153	On TIE-GCM simulation of the evening equatorial plasma vortex. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		29
152	C/NOFS observations of the equatorial ionospheric electric field response to the 2009 major sudden stratospheric warming event. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		29

151	Upflowing ionospheric ions in the auroral region. <i>Journal of Geophysical Research</i> , 1992 , 97, 16855		29
150	EarthQ ion upflow associated with polar cap patches: Global and in situ observations. <i>Geophysical Research Letters</i> , 2016 , 43, 1845-1853	4.9	28
149	Ion temperature and density relationships measured by CINDI from the C/NOFS spacecraft during solar minimum. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		28
148	Fast equatorial bubbles. <i>Journal of Geophysical Research</i> , 1997 , 102, 2039-2045		28
147	Seasonal and universal time distribution of patches in the northern and southern polar caps. <i>Journal of Geophysical Research</i> , 1998 , 103, 29229-29237		28
146	High-latitude ionospheric convection pattern during steady northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 1995 , 100, 14537		28
145	Polar cap deflation during magnetospheric substorms. <i>Journal of Geophysical Research</i> , 1989 , 94, 3785		28
144	Thermospheric dynamics during November 21-22, 1981: Dynamics Explorer measurements and thermospheric general circulation model predictions. <i>Journal of Geophysical Research</i> , 1988 , 93, 209		28
143	Thermospheric and ionospheric structure of the southern hemisphere polar cap on October 21, 1981, as determined from Dynamics Explorer 2 satellite data. <i>Journal of Geophysical Research</i> , 1985 , 90, 6553		28
142	Longitudinal and seasonal variations of the equatorial ionospheric ion density and eastward drift velocity in the dusk sector. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		27
141	Multiple auroral arcs and Birkeland currents: Evidence for plasma sheet boundary waves. <i>Geophysical Research Letters</i> , 1986 , 13, 805-808	4.9	27
140	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	2.6	26
139	Characteristics of ion velocity structure at high latitudes during steady southward interplanetary magnetic field conditions. <i>Journal of Geophysical Research</i> , 2005 , 110,		26
138	Storm time plasma irregularities in the pre-dawn hours observed by the low-latitude ROCSAT-1 satellite at 600 km altitude. <i>Geophysical Research Letters</i> , 2001 , 28, 685-688	4.9	26
137	Studies of ionospheric plasma and electrodynamics and their application to ionosphere-magnetosphere coupling. <i>Reviews of Geophysics</i> , 1988 , 26, 317	23.1	26
136	Ion temperature troughs and interhemispheric transport observed in the equatorial ionosphere. <i>Journal of Geophysical Research</i> , 1978 , 83, 3683		26
135	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, n/a-n/a		25
134	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, n/a-n/a		25

133	How wide in magnetic local time is the cusp? An event study. <i>Journal of Geophysical Research</i> , 1997 , 102, 4765-4776		25
132	High-latitude plasma outflow as measured by the DMSP spacecraft. <i>Journal of Geophysical Research</i> , 2003 , 108,		25
131	Magnetic field-aligned coupling effects on ionospheric plasma structure. <i>Journal of Geophysical Research</i> , 1990 , 95, 7995		24
130	Ionospheric flows associated with a transpolar arc. <i>Journal of Geophysical Research</i> , 1990 , 95, 21169		24
129	Electrical coupling effects on the temporal evolution of F layer plasma structure. <i>Journal of Geophysical Research</i> , 1985 , 90, 437-445		24
128	Characteristics of low-latitude ionospheric depletions and enhancements during solar minimum. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		23
127	Ion Velocity Measurements for the Ionospheric Connections Explorer. <i>Space Science Reviews</i> , 2017 , 212, 615-629	7.5	22
126	Onset conditions of bubbles and blobs: A case study on 2 March 2009. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	22
125	Source of the low-altitude hiss in the ionosphere. <i>Geophysical Research Letters</i> , 2017 , 44, 2060-2069	4.9	21
124	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	2.6	21
123	Topside signature of medium-scale traveling ionospheric disturbances. <i>Annales Geophysicae</i> , 2014 , 32, 959-965	2	21
122	Observations of low-latitude plasma density enhancements and their associated plasma drifts. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		21
121	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		21
120	Electron temperatures during rapid subauroral ion drift events. <i>Annales Geophysicae</i> , 1998 , 16, 450-459	2	21
119	Ionospheric storm time dynamics as seen by GPS tomography and in situ spacecraft observations. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		21
118	Four cells or two? Are four convection cells really necessary?. <i>Journal of Geophysical Research</i> , 1994 , 99, 3955		21
117	A Comparison of in situ measurements of and from Dynamics Explorer 2. <i>Journal of Geophysical Research</i> , 1993 , 98, 21501-21516		20
116	Three-dimensional numerical simulations of equatorial spread F: Results and observations in the Pacific sector. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		19

115	Storm time signatures of the ionospheric zonal ion drift at middle latitudes. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		19
114	Solar filament impact on 21 January 2005: Geospace consequences. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 5401-5448	2.6	18
113	The Mid-Latitude Trough Revisited. <i>Geophysical Monograph Series</i> , 2008 , 25-33	1.1	18
112	Three-dimensional ionospheric plasma circulation. <i>Journal of Geophysical Research</i> , 1992 , 97, 13903		18
111	Observations of ionospheric magnetospheric coupling: DE and Chatanika coincidences. <i>Journal of Geophysical Research</i> , 1986 , 91, 5803		18
110	Ionospheric convection signatures and magnetic field topology. <i>Journal of Geophysical Research</i> , 1987 , 92, 12352		18
109	Velocity spike at the poleward edge of the auroral zone. <i>Journal of Geophysical Research</i> , 1984 , 89, 1627		18
108	The polar ionosphere. <i>Reviews of Geophysics</i> , 1982 , 20, 567	23.1	18
107	Measurement of magnetic field aligned potential differences using high resolution conjugate photoelectron energy spectra. <i>Geophysical Research Letters</i> , 1977 , 4, 373-376	4.9	18
106	Global Modeling of Storm-Time Thermospheric Dynamics and Electrodynamics. <i>Geophysical Monograph Series</i> , 2013 , 187-200	1.1	17
105	Response of the topside ionosphere to recurrent geomagnetic activity. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		17
104	Ion drift meter calibration and photoemission correction for the C/NOFS satellite. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		17
103	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		17
102	Combining electric field and aurora observations from DE 1 and 2 with ground magnetometer records to estimate ionospheric electromagnetic quantities. <i>Journal of Geophysical Research</i> , 1989 , 94, 6723-6738		17
101	A feature of the behavior of He ⁺ in the nightside high-latitude ionosphere during equinox. <i>Journal of Geophysical Research</i> , 1981 , 86, 59		17
100	Topside equatorial zonal ion velocities measured by C/NOFS during rising solar activity. <i>Annales Geophysicae</i> , 2014 , 32, 69-75	2	16
99	The HiLat satellite mission. <i>Radio Science</i> , 1985 , 20, 416-424	1.4	16
98	Dynamics Explorer observations of equatorial spread F: Evidence for drift waves. <i>Geophysical Research Letters</i> , 1982 , 9, 993-996	4.9	16

97	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	2.6	15
96	Low latitude thermospheric responses to magnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3866-3876	2.6	15
95	Exploring the role of ionospheric drivers during the extreme solar minimum of 2008. <i>Annales Geophysicae</i> , 2013 , 31, 2147-2156	2	15
94	Quiet time meridional (vertical) ion drifts at low and middle latitudes observed by ROCSAT-1. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		15
93	Characteristics of high-latitude vertical plasma flow from the Defense Meteorological Satellite Program. <i>Journal of Geophysical Research</i> , 2006 , 111,		15
92	Effects of zonal winds and metallic ions on the behavior of intermediate layers. <i>Journal of Geophysical Research</i> , 1995 , 100, 7829		15
91	The HILAT program. <i>Eos</i> , 1983 , 64, 163	1.5	15
90	Observed Propagation Route of VLF Transmitter Signals in the Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5528-5537	2.6	15
89	Challenges to Understanding the Earth's Ionosphere and Thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027497	2.6	14
88	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	2.6	14
87	The influence of hemispheric asymmetries on field-aligned ion drifts at the geomagnetic equator. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-n/a	4.9	14
86	Errors in ram velocity and temperature measurements inferred from satellite-borne retarding potential analyzers. <i>Physics of Plasmas</i> , 2008 , 15, 062905	2.1	14
85	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,		14
84	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		14
83	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		13
82	Electrostatic potential drop across the ionospheric signature of the low-latitude boundary layer. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		13
81	Coordinated radar and optical measurements of stable auroral arcs at the polar cap boundary. <i>Journal of Geophysical Research</i> , 1991 , 96, 17847		13
80	MITHRAS: A brief description. <i>Radio Science</i> , 1984 , 19, 665-673	1.4	13

79	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		12
78	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,		12
77	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	2	12
76	On relationships between horizontal velocity structure and thermal ion upwellings at high latitudes. <i>Geophysical Research Letters</i> , 1999 , 26, 1829-1832	4.9	12
75	The Ion/Electron Temperature Characteristics of Polar Cap Classical and Hot Patches and Their Influence on Ion Upflow. <i>Geophysical Research Letters</i> , 2018 , 45, 8072-8080	4.9	11
74	Low-latitude measurements of neutral thermospheric helium dominance near 400 km during extreme solar minimum. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		11
73	Variations of thermospheric composition according to AE-C data and CTIP modelling. <i>Annales Geophysicae</i> , 2004 , 22, 441-452	2	11
72	Plasma and field properties of suprathermal electron bursts. <i>Journal of Geophysical Research</i> , 1989 , 94, 12031		11
71	Identifying equatorial ionospheric irregularities using in situ ion drifts. <i>Annales Geophysicae</i> , 2014 , 32, 421-429	2	10
70	Low- and Middle-Latitude Ionospheric Dynamics Associated with Magnetic Storms. <i>Geophysical Monograph Series</i> , 2013 , 51-61	1.1	10
69	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	2.6	10
68	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		9
67	Response of the topside ionosphere to high-speed solar wind streams. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		9
66	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, 052901	2.1	9
65	Supercooled ion temperatures observed in the topside ionosphere at dawn meridian during storm periods. <i>Journal of Geophysical Research</i> , 2004 , 109,		9
64	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	1.1	9
63	Reply to Tsurutani et al. "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	2	8
62	The Linkage between the Ring Current and the Ionosphere System. <i>Geophysical Monograph Series</i> , 2008 , 135-143	1.1	8

61	IMF Changes and Polar-Cap Electric Fields and Currents. <i>Astrophysics and Space Science Library</i> , 1979 , 47-62	0.3	8
60	Lower-thermosphere-ionosphere (LTI) quantities: current status of measuring techniques and models. <i>Annales Geophysicae</i> , 2021 , 39, 189-237	2	8
59	Mesoscale Plasma Convection Perturbations in the High-Latitude Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 7609-7620	2.6	8
58	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	2.6	7
57	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	2.6	7
56	Radio-tomographic images of postmidnight equatorial plasma depletions. <i>Geophysical Research Letters</i> , 2014 , 41, 13-19	4.9	7
55	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, 082901 ^{2.1}		7
54	A comparison of ionospheric O ⁺ /light-ion transition height derived from ion-composition measurements and the topside ion density profiles over equatorial latitudes. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	7
53	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	2.6	6
52	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, n/a-n/a		6
51	Stormtime measurements of topside ionospheric upflow from Defense Meteorological Satellite Program. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		6
50	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		6
49	Electrodynamics and plasma processes in the ionosphere. <i>Reviews of Geophysics</i> , 1987 , 25, 419	23.1	6
48	The Plasma Environment Associated With Equatorial Ionospheric Irregularities. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1583-1592	2.6	5
47	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	2.6	5
46	A method to estimate whistler wave vector from polarization using three-component electric field data. <i>Radio Science</i> , 2014 , 49, 131-145	1.4	5
45	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	2.6	5
44	In situ irregularity identification and scintillation estimation using wavelets and CINDI on C/NOFS. <i>Radio Science</i> , 2013 , 48, 388-395	1.4	5

43	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		5
42	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	2.6	5
41	The Low Altitude Cleft: Plasma Entry and Magnetospheric Topology 1983 , 57-72		5
40	Plasma and convection reversal boundary motions in the high-latitude ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 5752-5763	2.6	4
39	Storm time meridional wind perturbations in the equatorial upper thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2756-2764	2.6	4
38	Midlatitude Ionospheric Dynamics and Disturbances: Introduction. <i>Geophysical Monograph Series</i> , 2008 , 1-7	1.1	4
37	Regulation of ionospheric plasma velocities by thermospheric winds.. <i>Nature Geoscience</i> , 2021 , 14, 893-898	2.3	4
36	Interplanetary Magnetic Field Effects on High Latitude Ionospheric Convection 1985 , 293-303		4
35	Longitude and Hemispheric Dependencies in Storm-Enhanced Density. <i>Geophysical Monograph Series</i> , 2016 , 59-70	1.1	3
34	Daytime zonal drifts in the ionospheric 150km and E regions estimated using EAR observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9045-9055	2.6	3
33	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
32	The High Latitude Ionospheric Convection Pattern. <i>Journal of Geomagnetism and Geoelectricity</i> , 1991 , 43, 245-257		3
31	Large-Scale O+ Depletions Observed by ICON in the Post-Midnight Topside Ionosphere: Data/Model Comparison. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092061	4.9	3
30	Advances in Understanding Ionospheric Convection at High Latitudes. <i>Geophysical Monograph Series</i> , 2016 , 49-59	1.1	3
29	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	1.4	3
28	Ion Cyclotron Resonant Absorption Lines in ELF Hiss Power Spectral Density in the Low-Latitude Ionosphere. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL086315	4.9	3
27	Daytime ion and electron temperatures in the topside ionosphere at middle latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2202-2209	2.6	2
26	Plasma Dynamics Associated With Equatorial Ionospheric Irregularities. <i>Geophysical Research Letters</i> , 2018 , 45, 7927-7932	4.9	2

25	Aspects of Coupling Processes in the Ionosphere and Thermosphere. <i>Geophysical Monograph Series</i> , 2014 , 161-169	1.1	2
24	Impact of the Neutral Wind Dynamo on the Development of the Region 2 Dynamo. <i>Geophysical Monograph Series</i> , 2013 , 179-186	1.1	2
23	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	2.6	2
22	A Digest of Electrodynamics Coupling and Layer Instabilities in the Nighttime Midlatitude Ionosphere. <i>Geophysical Monograph Series</i> , 2008 , 283-290	1.1	2
21	Comparison of topside equatorial parameters derived from DMSP, Jicamarca, and Another Model of the Ionosphere (SAM2). <i>Journal of Geophysical Research</i> , 2005 , 110,		2
20	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	3	2
19	Thermal Ion Drifts in the Dayside High-Latitude Ionosphere 1994 , 43-57		2
18	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	2.6	2
17	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	2.6	2
16	Modeling the daytime energy balance of the topside ionosphere at middle latitudes. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5733-5742	2.6	1
15	Measurement of Individual H ⁺ and O ⁺ Ion Temperatures in the Topside Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1525-1533	2.6	1
14	Mapping the duskside topside ionosphere with CINDI and DMSP. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		1
13	William B. Hanson 1923 - 1994: A retrospective. <i>Journal of Geophysical Research</i> , 1997 , 102, 2035-2038		1
12	Longitudinal ionospheric effects in the South Atlantic evening sector during solar maximum. <i>Journal of Geophysical Research</i> , 2002 , 107, SIA 3-1		1
11	Magnetospheric multiscale and global electrodynamics missions. <i>Geophysical Monograph Series</i> , 1999 , 225-235	1.1	1
10	Electric Fields and Electrostatic Potentials in the High Latitude Ionosphere 1980 , 281-291		1
9	Low-Latitude Whistler-Wave Spectra and Polarization From VEFI and CINDI Payloads on C/NOFS Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027074	2.6	1
8	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	2.6	1

7	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	2.6	1
6	Atmospheric lunar tide in the low latitude thermosphere-ionosphere. <i>Geophysical Research Letters</i> ,	4.9	1
5	Q2DW-Tide and -Ionosphere Interactions as Observed From ICON and Ground-Based Radars.. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029961	2.6	0
4	Ionospheric Storm-Enhanced Density Plumes. <i>Geophysical Monograph Series</i> , 2021 , 115-126	1.1	0
3	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	2.6	0
2	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	2.6	0
1	The Nightside Ionosphere: Ionospheric Convection during an Isolated Substorm on October 21, 1981. <i>Journal of Geomagnetism and Geoelectricity</i> , 1996 , 48, 915-923		