Arthur D Richmond

List of Publications by Year in Descending Order

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

60 103 12,152 219 h-index g-index citations papers 13,118 6.34 225 3.4 L-index avg, IF ext. citations ext. papers

#	Paper	IF	Citations
219	Joule Heating in the Thermosphere. <i>Geophysical Monograph Series</i> , 2021 , 1-18	1.1	2
218	Mid-Latitude Thermosphere-Ionosphere Na (TINa) Layers Observed With High-Sensitivity Na Doppler Lidar Over Boulder (40.13LN, 105.24LW). <i>Geophysical Research Letters</i> , 2021 , 48, e2021GL09372	9 4.9	2
217	Magnetosphere-Ionosphere Coupling via Prescribed Field-Aligned Current Simulated by the TIEGCM. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126,	2.6	1
216	Momentum and Energy Budgets in the High-Latitude Lower Thermospheric Wind System. <i>Geophysical Monograph Series</i> , 2021 , 19-40	1.1	
215	Impacts of Binning Methods on High-Latitude Electrodynamic Forcing: Static Versus Boundary-Oriented Binning Methods. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019J	20272	275
214	Global-Scale Observations and Modeling of Far-Ultraviolet Airglow During Twilight. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027645	2.6	5
213	Impacts of Multiscale FACs on the Ionosphere-Thermosphere System: GITM Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 3532-3542	2.6	4
212	Analysis of the Steady State Available Energy Budget in the High-Latitude Lower Thermosphere. Journal of Geophysical Research: Space Physics, 2019 , 124, 2283-2297	2.6	1
211	Thermosphere-Ionosphere Model Development: A Personal Perspective. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 9154-9165	2.6	O
210	Effects of High-Latitude Forcing Uncertainty on the Low-Latitude and Midlatitude Ionosphere. Journal of Geophysical Research: Space Physics, 2018 , 123, 862-882	2.6	11
209	Development and Validation of the Whole Atmosphere Community Climate Model With Thermosphere and Ionosphere Extension (WACCM-X 2.0). <i>Journal of Advances in Modeling Earth Systems</i> , 2018 , 10, 381-402	7.1	133
208	Post-Storm Middle and Low-Latitude Ionospheric Electric Fields Effects. <i>Space Sciences Series of ISSI</i> , 2018 , 415-437	0.1	
207	F \$F\$ -Region Dynamo Simulations at Low and Mid-Latitude. <i>Space Sciences Series of ISSI</i> , 2018 , 479-501	0.1	
206	The F \$F\$ -Region Gravity and Pressure Gradient Current Systems: A Review. <i>Space Sciences Series of ISSI</i> , 2018 , 459-477	0.1	2
205	Magnetic Coordinate Systems. <i>Space Sciences Series of ISSI</i> , 2018 , 29-61	0.1	2
204	Small-Scale and Mesoscale Variabilities in the Electric Field and Particle Precipitation and Their Impacts on Joule Heating. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 9862-9872	2.6	17
203	A Comparison of Model-Based Ionospheric and Ocean Tidal Magnetic Signals With Observatory Data. <i>Geophysical Research Letters</i> , 2018 , 45, 7257-7267	4.9	12

(2015-2017)

202	An application of principal component analysis to the interpretation of ionospheric current systems. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5687-5708	2.6	8
201	Relative contributions of momentum forcing and heating to high-latitude lower thermospheric winds. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1031-1041	2.6	6
200	Post-Storm Middle and Low-Latitude Ionospheric Electric Fields Effects. <i>Space Science Reviews</i> , 2017 , 206, 407-429	7.5	30
199	The Global-Scale Observations of the Limb and Disk (GOLD) Mission. <i>Space Science Reviews</i> , 2017 , 212, 383-408	7.5	63
198	The (F)-Region Gravity and Pressure Gradient Current Systems: A Review. <i>Space Science Reviews</i> , 2017 , 206, 451-469	7.5	18
197	Magnetic Coordinate Systems. <i>Space Science Reviews</i> , 2017 , 206, 27-59	7.5	114
196	(F)-Region Dynamo Simulations at Low and Mid-Latitude. <i>Space Science Reviews</i> , 2017 , 206, 471-493	7.5	25
195	Examining the Magnetic Signal Due To Gravity and Plasma Pressure Gradient Current With the TIE-GCM. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 12,486-12,504	2.6	9
194	Impact of semidiurnal tidal variability during SSWs on the mean state of the ionosphere and thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 8077-8088	2.6	29
193	High-latitude energy input and its impact on the thermosphere. <i>Journal of Geophysical Research:</i> Space Physics, 2016 , 121, 7108-7124	2.6	41
192	Ion-neutral coupling effects on low-latitude thermospheric evening winds. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 4638-4646	2.6	6
191	Ionospheric Electrodynamics 2016 , 245-259		5
190	Winter Temperature and Tidal Structures from 2011 to 2014 at McMurdo Station: Observations from Fe Boltzmann Temperature and Rayleigh Lidar. <i>EPJ Web of Conferences</i> , 2016 , 119, 12003	0.3	0
189	Electrodynamics of the equatorial evening ionosphere: 2. Conductivity influences on convection, current, and electrodynamic energy flow. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 2133	3 ² 2147	17
188	Electrodynamics of the equatorial evening ionosphere: 1. Importance of winds in different regions. Journal of Geophysical Research: Space Physics, 2015 , 120, 2118-2132	2.6	32
187	Mapping high-latitude ionospheric electrodynamics with SuperDARN and AMPERE. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 5854-5870	2.6	32
186	Dominant modes of variability in large-scale Birkeland currents. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 6722-6735	2.6	18
185	Inverse procedure for high-latitude ionospheric electrodynamics: Analysis of satellite-borne magnetometer data. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 5241-5251	2.6	20

184	DYNAMICAL METEOROLOGY Atmospheric Tides 2015 , 287-297		11
183	Lidar and CTIPe model studies of the fast amplitude growth with altitude of the diurnal temperature l ideslin the Antarctic winter lower thermosphere and dependence on geomagnetic activity. <i>Geophysical Research Letters</i> , 2015 , 42, 697-704	4.9	7
182	TIME-GCM study of the ionospheric equatorial vertical drift changes during the 2006 stratospheric sudden warming. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1287-1305	2.6	27
181	Ionospheric Electrodynamics Modeling. <i>Geophysical Monograph Series</i> , 2014 , 57-71	1.1	43
180	The NCAR TIE-GCM. Geophysical Monograph Series, 2014, 73-83	1.1	154
179	Dependence of the high-latitude lower thermospheric wind vertical vorticity and horizontal divergence on the interplanetary magnetic field. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1356-1368	2.6	15
178	On the day-to-day variation of the equatorial electrojet during quiet periods. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 6966-6980	2.6	39
177	Wavelength dependence of solar irradiance enhancement during X-class flares and its influence on the upper atmosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2014 , 115-116, 87-94	2	5
176	Comparison of magnetic perturbation data from LEO satellite constellations: Statistics of DMSP and AMPERE. <i>Space Weather</i> , 2014 , 12, 2-23	3.7	28
175	Ground magnetic effects of the equatorial electrojet simulated by the TIE-GCM driven by TIMED satellite data. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 3150-3161	2.6	25
174	Global-Scale Observations of the Limb and Disk (Gold): New Observing Capabilities for the Ionosphere-Thermosphere. <i>Geophysical Monograph Series</i> , 2013 , 319-326	1.1	7
173	Global Modeling of Storm-Time Thermospheric Dynamics and Electrodynamics. <i>Geophysical Monograph Series</i> , 2013 , 187-200	1.1	17
172	A Data-model Comparative Study of Ionospheric Positive Storm Phase in the Midlatitude F Region. <i>Geophysical Monograph Series</i> , 2013 , 63-75	1.1	3
171	SuperDARN assimilative mapping. Journal of Geophysical Research: Space Physics, 2013, 118, 7954-7962	2.6	29
170	A theory of ionospheric response to upward-propagating tides: Electrodynamic effects and tidal mixing effects. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 5891-5905	2.6	90
169	Attribution of ionospheric vertical plasma drift perturbations to large-scale waves and the dependence on solar activity. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 2452-2465	2.6	60
168	Changes in the Earth's magnetic field over the past century: Effects on the ionosphere-thermosphere system and solar quiet (Sq) magnetic variation. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 849-858	2.6	42
167	Wavenumber broadening of the quasi 2 day planetary wave in the ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3515-3526	2.6	33

(2011-2013)

166	The Ionospheric Wind Dynamo: Effects of Its Coupling With Different Atmospheric Regions. <i>Geophysical Monograph Series</i> , 2013 , 49-65	1.1	30	
165	Mesoscale and large-scale variability in high-latitude ionospheric convection: Dominant modes and spatial/temporal coherence. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7895-7904	2.6	21	
164	Sq current system during stratospheric sudden warming events in 2006 and 2009. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		19	
163	Assimilation of FORMOSAT-3/COSMIC electron density profiles into a coupled thermosphere/ionosphere model using ensemble Kalman filtering. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		58	
162	Stratospheric warmings and the geomagnetic lunar tide: 1958\(\mathbb{Q}\)007. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		68	
161	How changes in the tilt angle of the geomagnetic dipole affect the coupled magnetosphere-ionosphere-thermosphere system. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		34	
160	Height distribution of Joule heating and its influence on the thermosphere. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		37	
159	Simulations of the equatorial thermosphere anomaly: Field-aligned ion drag effect. <i>Journal of Geophysical Research</i> , 2012 , 117,		17	
158	Forcing the TIEGCM model with Birkeland currents from the Active Magnetosphere and Planetary Electrodynamics Response Experiment. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		20	
157	The dependence of the coupled magnetosphere-ionosphere-thermosphere system on the Earth's magnetic dipole moment. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		33	
156	Intense dayside Joule heating during the 5 April 2010 geomagnetic storm recovery phase observed by AMIE and AMPERE. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		22	
155	Simulations of solar and lunar tidal variability in the mesosphere and lower thermosphere during sudden stratosphere warmings and their influence on the low-latitude ionosphere. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		82	
154	Sources of low-latitude ionospheric EIIB drifts and their variability. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		56	
153	Atmospheric semidiurnal lunar tide climatology simulated by the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		38	
152	Quasi-two-day wave coupling of the mesosphere and lower thermosphere-ionosphere in the TIME-GCM: Two-day oscillations in the ionosphere. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		34	
151	On the formation of a fast thermospheric zonal wind at the magnetic dip equator. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	4.9	10	
150	The response of the coupled magnetosphere-ionosphere-thermosphere system to a 25% reduction in the dipole moment of the Earth's magnetic field. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		32	
149	The ionospheric gravity and diamagnetic current systems. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		17	

148	Electrodynamics of IonosphereThermosphere Coupling 2011 , 191-201	7
147	Modeling the Storm Time Electrodynamics 2011 , 455-464	13
146	Longitudinal variations in the F region ionosphere and the topside ionosphere-plasmasphere: Observations and model simulations. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a	46
145	Forecasting the dynamic and electrodynamic response to the January 2009 sudden stratospheric warming. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	56
144	Seasonal and longitudinal variations of the solar quiet (Sq) current system during solar minimum determined by CHAMP satellite magnetic field observations. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a	38
143	A computationally compact representation of Magnetic-Apex and Quasi-Dipole coordinates with smooth base vectors. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a	102
142	Simulation of electric field and current during the 11 June 1993 disturbance dynamo event: Comparison with the observations. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a	18
141	On the ionospheric application of Poynting's theorem. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a	39
140	Thermosphere extension of the Whole Atmosphere Community Climate Model. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a	113
139	Ionospheric variability due to planetary waves and tides for solar minimum conditions. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a	181
138	Sources of the High-Latitude Thermospheric Neutral Mass Density Variations. <i>Journal of Astronomy and Space Sciences</i> , 2010 , 27, 329-335	2
137	Contributions of Heating and Forcing to the High-Latitude Lower Thermosphere: Dependence on the Interplanetary Magnetic Field. <i>Journal of Astronomy and Space Sciences</i> , 2010 , 27, 205-212	
136	Bayesian calibration of the Thermosphere-Ionosphere Electrodynamics General Circulation Model (TIE-GCM). <i>Geoscientific Model Development</i> , 2009 , 2, 137-144	8
135	Theoretical study of new plasma structures in the low-latitude ionosphere during a major magnetic storm. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a	29
134	Expert Knowledge and Multivariate Emulation: The Thermospherelbnosphere Electrodynamics General Circulation Model (TIE-GCM). <i>Technometrics</i> , 2009 , 51, 414-424	24
133	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
132	Causal link of the wave-4 structures in plasma density and vertical plasma drift in the low-latitude ionosphere. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a	61
131	Impact of electric field variability on Joule heating and thermospheric temperature and density. Geophysical Research Letters, 2009 , 36, 4.9	38

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130	Dependence of the high-latitude thermospheric densities on the interplanetary magnetic field. Journal of Geophysical Research, 2009, 114, n/a-n/a		18
129	Assessment of the non-hydrostatic effect on the upper atmosphere using a general circulation model (GCM). <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	67
128	Observations and simulations of the ionospheric and thermospheric response to the December 2006 geomagnetic storm: Initial phase. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		104
127	Analysis of thermospheric response to magnetospheric inputs. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		23
126	A dayside ionospheric positive storm phase driven by neutral winds. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		91
125	Effects of high-latitude ionospheric electric field variability on global thermospheric Joule heating and mechanical energy transfer rate. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		45
124	Ionospheric electric field variations during a geomagnetic storm simulated by a coupled magnetosphere ionosphere thermosphere (CMIT) model. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	65
123	Behavior of the F2 peak ionosphere over the South Pacific at dusk during quiet summer conditions from COSMIC data. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		76
122	Wind dynamo effects on ground magnetic perturbations and vertical drifts. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		32
121	Model simulation of the equatorial electrojet in the Peruvian and Philippine sectors. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008 , 70, 2203-2211	2	42
120	Modelling the effects of changes in the Earth's magnetic field from 1957 to 1997 on the ionospheric hmF2 and foF2 parameters. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008 , 70, 1512-1524	2	58
119	An analysis of the momentum forcing in the high-latitude lower thermosphere. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		39
118	Dependence of the high-latitude lower thermospheric momentum forcing on the interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		14
117	Connections between deep tropical clouds and the Earth's ionosphere. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	177
116	Simulation of equatorial electrojet magnetic effects with the thermosphere-ionosphere-electrodynamics general circulation model. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		37
115	Modeling storm-time electrodynamics of the low-latitude ionosphereEhermosphere system: Can long lasting disturbance electric fields be accounted for?. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007 , 69, 1182-1199	2	64
114	Modeling seasonal and diurnal effects on ionospheric conductances, region-2 currents, and plasma convection in the inner magnetosphere. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		10
113	Optimal interpolation analysis of high-latitude ionospheric electrodynamics using empirical orthogonal functions: Estimation of dominant modes of variability and temporal scales of large-scale electric fields. <i>Journal of Geophysical Research</i> , 2005 , 110.		38

112	Simulation study of the longitudinal variation of evening vertical ionospheric drifts at the magnetic equator during equinox. <i>Journal of Geophysical Research</i> , 2005 , 110,		39
111	Large-scale variations of the low-latitude ionosphere during the October November 2003 superstorm: Observational results. <i>Journal of Geophysical Research</i> , 2005 , 110,		59
110	Theoretical effects of geomagnetic activity on low-latitude ionospheric electric fields. <i>Journal of Geophysical Research</i> , 2005 , 110,		84
109	Interaction between direct penetration and disturbance dynamo electric fields in the storm-time equatorial ionosphere. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	158
108	Mean winds, tides, and quasi-2 day wave in the polar lower thermosphere observed in European Incoherent Scatter (EISCAT) 8 day run data in November 2003. <i>Journal of Geophysical Research</i> , 2005 , 110,		18
107	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
106	A STUDY ON THE IONOSPHERE AND THERMOSPHERE INTERACTION BASED ON NCAR-TIEGCM: DEPENDENCE OF THE INTERPLANETARY MAGNETIC FIELD (IMF) ON THE MOMENTUM FORCING IN THE HIGH-LATITUDE LOWER THERMOSPHERE. <i>Journal of Astronomy and Space Sciences</i> , 2005 , 22, 147	-174	
105	High-latitude ionospheric electric field variability and electric potential derived from DE-2 plasma drift measurements: Dependence on IMF and dipole tilt. <i>Journal of Geophysical Research</i> , 2003 , 108, SIA 1-1		64
104	Ionospheric control of the magnetospheric configuration: Thermospheric neutral winds. <i>Journal of Geophysical Research</i> , 2003 , 108,		45
103	Winds in the high-latitude lower thermosphere: Dependence on the interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2003 , 108,		85
102	Long-lasting disturbances in the equatorial ionospheric electric field simulated with a coupled magnetosphere-ionosphere-thermosphere model. <i>Journal of Geophysical Research</i> , 2003 , 108,		150
101	Storm-time changes in the upper atmosphere at low latitudes. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2002 , 64, 1383-1391	2	166
100	Neutral wind influence on the electrodynamic coupling between the ionosphere and the magnetosphere. <i>Journal of Geophysical Research</i> , 2002 , 107, SMP 2-1		24
99	Modes of high-latitude electric field variability derived from DE-2 measurements: Empirical Orthogonal Function (EOF) analysis. <i>Geophysical Research Letters</i> , 2002 , 29, 11-1	4.9	47
98	Modeling the geomagnetic perturbations produced by ionospheric currents, above and below the ionosphere. <i>Journal of Geodynamics</i> , 2002 , 33, 143-156	2.2	8
97	Ionospheric electrical conductances produced by auroral proton precipitation. <i>Journal of Geophysical Research</i> , 2001 , 106, 117-125		67
96	Comparison of the auroral E region neutral winds derived with the European Incoherent Scatter radar and predicted by the National Center for Atmospheric Research Thermosphere-ionosphere-mesosphere-electrodynamics general circulation model. <i>Journal of</i>		7
95	An investigation into the influence of tidal forcing on F region equatorial vertical ion drift using a global ionosphere-thermosphere model with coupled electrodynamics. <i>Journal of Geophysical Research</i> , 2001 , 106, 24733-24744		153

94	An investigation of the influence of data and model inputs on assimilative mapping of ionospheric electrodynamics. <i>Journal of Geophysical Research</i> , 2001 , 106, 417-433		33	
93	Coexistence of ionospheric positive and negative storm phases under northern winter conditions: A case study. <i>Journal of Geophysical Research</i> , 2001 , 106, 24493-24504		71	
92	Upper-atmospheric effects of magnetic storms: a brief tutorial. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2000 , 62, 1115-1127	2	111	
91	Ionospheric Electrodynamics: A Tutorial. <i>Geophysical Monograph Series</i> , 2000 , 131-146	1.1	41	
90	Electrodynamic coupling of high and low latitudes: Simulations of shielding/overshielding effects. Journal of Geophysical Research, 2000 , 105, 22991-23003		102	
89	Electrodynamic coupling of high and low latitudes: Observations on May 27, 1993. <i>Journal of Geophysical Research</i> , 2000 , 105, 22979-22989		54	
88	Simulation of the pre-reversal enhancement in the low latitude vertical ion drifts. <i>Geophysical Research Letters</i> , 2000 , 27, 1851-1854	4.9	153	
87	Lunar tides in the Thermosphere-Ionosphere-Electrodynamics General Circulation Model. <i>Journal of Geophysical Research</i> , 1999 , 104, 1-13		20	
86	Magnetic mirroring in an incident proton beam. <i>Journal of Geophysical Research</i> , 1999 , 104, 4447-4455		27	
85	An ionospheric conductance model based on ground magnetic disturbance data. <i>Journal of Geophysical Research</i> , 1998 , 103, 14769-14780		58	
84	The AMIE procedure: Prospects for space weather specification and prediction. <i>Advances in Space Research</i> , 1998 , 22, 103-112	2.4	21	
83	Variations of total electron content during geomagnetic disturbances: A model/observation comparison. <i>Geophysical Research Letters</i> , 1998 , 25, 253-256	4.9	33	
82	Longitudinal and interhemispheric variations of auroral ionospheric electrodynamics in a realistic geomagnetic field. <i>Journal of Geophysical Research</i> , 1998 , 103, 4011-4021		27	
81	A magnetosphere-thermosphere-ionosphere electrodynamics general circulation model. <i>Journal of Geophysical Research</i> , 1998 , 103, 17467-17477		38	
80	The lonosphere and Upper Atmosphere 1998 , 35-44		3	
79	Global Ionospheric Convection during Substorm Expansion. <i>Astrophysics and Space Science Library</i> , 1998 , 617-622	0.3	5	
78	How Does the Thermosphere and Ionosphere React to a Geomagnetic Storm?. <i>Geophysical Monograph Series</i> , 1997 , 203-225	1.1	89	
77	Experiments with a lunar atmospheric tidal model. <i>Journal of Geophysical Research</i> , 1997 , 102, 13465-13	3471	73	

76	Mapping of the ionospheric field-aligned currents to the equatorial magnetosphere. <i>Journal of Geophysical Research</i> , 1997 , 102, 14467-14476		13
75	Electrodynamic coupling effects in the thermosphere/ionosphere system. <i>Advances in Space Research</i> , 1997 , 20, 1115-1124	2.4	10
74	Space weather research prompts study of ionosphere and upper atmospheric electrodynamics. <i>Eos</i> , 1996 , 77, 101	1.5	8
73	Relationship of the ionospheric convection reversal to the hard auroral precipitation boundary. <i>Journal of Geophysical Research</i> , 1996 , 101, 15423-15432		7
72	Assimilative mapping of ionospheric electrodynamics in the thermosphere-ionosphere general circulation model comparisons with global ionospheric and thermospheric observations during the GEM/SUNDIAL period of March 2819, 1992. <i>Journal of Geophysical Research</i> , 1996, 101, 26681-26696		30
71	Ionospheric drift similarities at magnetic conjugate and nonconjugate locations. <i>Journal of Geophysical Research</i> , 1996 , 101, 15773-15782		8
70	Modeling equatorial ionospheric electric fields. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1995 , 57, 1103-1115		43
69	Ionospheric Electrodynamics Using Magnetic Apex Coordinates <i>Journal of Geomagnetism and Geoelectricity</i> , 1995 , 47, 191-212		460
68	Regional estimation of electric fields and currents in the polar ionosphere. <i>Geophysical Research Letters</i> , 1995 , 22, 283-286	4.9	7
67	Magnetosphere-ionosphere-thermosphere coupling: Effect of neutral winds on energy transfer and field-aligned current. <i>Journal of Geophysical Research</i> , 1995 , 100, 19643		135
66	A storm time assimilative mapping of ionospheric electrodynamics analysis for the severe geomagnetic storm of November 80, 1991. <i>Journal of Geophysical Research</i> , 1995 , 100, 19329		20
65	Mapping ionospheric convection response to IMF By negative and Bz positive conditions. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1994 , 56, 223-235		8
64	Investigation of seasonal and interannual variations of internal gravity wave intensity in the thermosphere over Saint Santin. <i>Journal of Geophysical Research</i> , 1994 , 99, 6297		11
63	Interhemispheric asymmetry of the high-latitude ionospheric convection pattern. <i>Journal of Geophysical Research</i> , 1994 , 99, 6491		91
62	Ground-based studies of ionospheric convection associated with substorm expansion. <i>Journal of Geophysical Research</i> , 1994 , 99, 19451		34
61	Low-latitude plasma drifts from a simulation of the global atmospheric dynamo. <i>Journal of Geophysical Research</i> , 1993 , 98, 6039-6046		72
60	Ionospheric convection response to slow, strong variations in a northward interplanetary magnetic field: A case study for January 14, 1988. <i>Journal of Geophysical Research</i> , 1993 , 98, 19273-19292		67
59	Modeling the ion loss effect on the generation of region 2 field-aligned currents via equivalent magnetospheric conductances. <i>Journal of Geophysical Research</i> , 1993 , 98, 15467		4

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