Aaron J Ridley

List of Publications by Year
in descending order

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262 papers	9,453 citations	38742 50 h-index	56724 83 g-index

277 all docs	277 docs citations	277 times ranked	4239 citing authors

#	Article	IF	Citations
1	Space Weather Modeling Framework: A new tool for the space science community. Journal of Geophysical Research, 2005, 110, .	3.3	631
2	The global ionosphereâ€“thermosphere model. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 839-864.	1.6	392
3	Ionospheric control of the magnetosphere: conductance. Annales Geophysicae, 2004, 22, 567-584.	1.6	342
4	New Ocean Winds Satellite Mission to Probe Hurricanes and Tropical Convection. Bulletin of the American Meteorological Society, 2016, 97, 385-395.	3.3	285
5	Modeling a space weather event from the Sun to the Earth: CME generation and interplanetary propagation. Journal of Geophysical Research, 2004, 109, .	3.3	238
6	A statistical study of the ionospheric convection response to changing interplanetary magnetic field conditions using the assimilative mapping of ionospheric electrodynamics technique. Journal of Geophysical Research, 1998, 103, 4023-4039.	3.3	210
7	Coupling of a global MHD code and an inner magnetospheric model: Initial results. Journal of Geophysical Research, 2004, 109, .	3.3	203
8	A New Paradigm in Earth Environmental Monitoring with the CYGNSS Small Satellite Constellation. Scientific Reports, 2018, 8, 8782.	3.3	195
9	Communityâ€wide validation of geospace model ground magnetic field perturbation predictions to support model transition to operations. Space Weather, 2013, 11, 369-385.	3.7	136
10	A model-derived storm time asymmetric ring current driven electric field description. Journal of Geophysical Research, 2002, 107, SMP 2-1-SMP 2-12.	3.3	131
11	The CYGNSS nanosatellite constellation hurricane mission. , 2012, , .		126
12	MAGNETOSPHERIC STRUCTURE AND ATMOSPHERIC JOULE HEATING OF HABITABLE PLANETS ORBITING M-DWARF STARS. Astrophysical Journal, 2014, 790, 57.	4.5	124
13	MultistepDstdevelopment and ring current composition changes during the 4-6 June 1991 magnetic storm. Journal of Geophysical Research, 2002, 107, SMP 33-1-SMP 33-22.	3.3	108
14	Magnetospheric configuration and dynamics of Saturn's magnetosphere: A global MHD simulation. Journal of Geophysical Research, 2012, 117, .	3.3	103
15	Transpolar potential saturation models compared. Journal of Geophysical Research, 2004, 109, .	3.3	98
16	Sun-to-thermosphere simulation of the 28-30 October 2003 storm with the Space Weather Modeling Framework. Space Weather, 2007, 5, n/a-n/a.	3.7	97
17	Midlatitude Plasma Bubbles Over China and Adjacent Areas During a Magnetic Storm on 8 September 2017. Space Weather, 2018, 16, 321-331.	3.7	95
18	Saturation of the polar cap potential: Inference from AlfvÃ©n wing arguments. Journal of Geophysical Research, 2008, 113, .	3.3	89

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19	Computational analysis of the near-Earth magnetospheric current system during two-phase decay storms. Journal of Geophysical Research, 2001, 106, 29531-29542.	3.3	88
20	Polar cap index comparisons with AMIE cross polar cap potential, electric field, and polar cap area. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	87
21	Neutral Upper Atmosphere and Ionosphere Modeling. Space Science Reviews, 2008, 139, 107-141.	8.1	85
22	A large-scale traveling ionospheric disturbance during the magnetic storm of 15 September 1999. Journal of Geophysical Research, 2002, 107, SIA 5-1.	3.3	81
23	Assessment of the nonâ€hydrostatic effect on the upper atmosphere using a general circulation model (GCM). Geophysical Research Letters, 2008, 35, .	4.0	81
24	Dependence of plasmaspheric morphology on the electric field description during the recovery phase of the 17 April 2002 magnetic storm. Journal of Geophysical Research, 2004, 109, .	3.3	77
25	On the generation/decay of the stormâ€enhanced density plumes: Role of the convection flow and fieldâ€aligned ion flow. Journal of Geophysical Research: Space Physics, 2014, 119, 8543-8559.	2.4	74
26	Multiscale modeling of magnetospheric reconnection. Journal of Geophysical Research, 2007, 112, .	3.3	72
27	Geospace Environment Modeling 2008â€“2009 Challenge: Ground magnetic field perturbations. Space Weather, 2011, 9, .	3.7	71
28	CEDAR Electrodynamics Thermosphere Ionosphere (ETI) Challenge for systematic assessment of ionosphere/thermosphere models: NmF2, hmF2, and vertical drift using groundâ€based observations. Space Weather, 2011, 9, .	3.7	71
29	Possible reasons for underestimating Joule heating in global models: E field variability, spatial resolution, and vertical velocity. Journal of Geophysical Research, 2007, 112, .	3.3	70
30	Ionospheric convection during nonsteady interplanetary magnetic field conditions. Journal of Geophysical Research, 1997, 102, 14563-14579.	3.3	68
31	Parametric analysis of nightside conductance effects on inner magnetospheric dynamics for the 17 April 2002 storm. Journal of Geophysical Research, 2005, 110, .	3.3	65
32	CEDAR Electrodynamics Thermosphere Ionosphere (ETI) Challenge for systematic assessment of ionosphere/thermosphere models: Electron density, neutral density, NmF2, and hmF2 using space based observations. Space Weather, 2012, 10, .	3.7	65
33	Using steady state MHD results to predict the global state of the magnetosphere-ionosphere system. Journal of Geophysical Research, 2001, 106, 30067-30076.	3.3	64
34	Impact of the altitudinal Joule heating distribution on the thermosphere. Journal of Geophysical Research, 2011, 116, .	3.3	63
35	Transformation of high-latitude ionosphericFregion patches into blobs during the March 21, 1990, storm. Journal of Geophysical Research, 2000, 105, 5215-5230.	3.3	62
36	Solution-adaptive magnetohydrodynamics for space plasmas: sun-to-earth simulations. Computing in Science and Engineering, 2004, 6, 14-35.	1.2	62

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37	The magnetospheric and ionospheric response to a very strong interplanetary shock and coronal mass ejection. Advances in Space Research, 2006, 38, 263-272.	2.6	62
38	University of Michigan MHD results of the Geospace Global Circulation Model metrics challenge. Journal of Geophysical Research, 2002, 107, SMP 12-1.	3.3	61
39	Strong bulk plasma acceleration in Earth's magnetosheath: A magnetic slingshot effect?. Geophysical Research Letters, 2007, 34, .	4.0	61
40	Theoretical study: Influence of different energy sources on the cusp neutral density enhancement. Journal of Geophysical Research: Space Physics, 2013, 118, 2340-2349.	2.4	61
41	Validation of the space weather modeling framework using groundâ€based magnetometers. Space Weather, 2008, 6, .	3.7	59
42	Validation of SWMF magnetic field and plasma. Space Weather, 2010, 8, n/a-n/a.	3.7	59
43	Merging of Storm Time Midlatitude Traveling Ionospheric Disturbances and Equatorial Plasma Bubbles. Space Weather, 2019, 17, 285-298.	3.7	58
44	Ionospheric control of the magnetospheric configuration: Thermospheric neutral winds. Journal of Geophysical Research, 2003, 108, .	3.3	57
45	Global MHD simulations of Saturn's magnetosphere at the time of Cassini approach. Geophysical Research Letters, 2005, 32, .	4.0	57
46	AlfvÃ©n wings at Earth's magnetosphere under strong interplanetary magnetic fields. Annales Geophysicae, 2007, 25, 533-542.	1.6	57
47	High-latitude Joule heating response to IMF inputs. Journal of Geophysical Research, 2005, 110, .	3.3	54
48	Modeling the thermospheric response to solar flares. Journal of Geophysical Research, 2008, 113, .	3.3	54
49	Multiâ€instrument observations of SED during 24â€“25 October 2011 storm: Implications for SED formation processes. Journal of Geophysical Research: Space Physics, 2013, 118, 7798-7809.	2.4	53
50	A new formulation for the ionospheric cross polar cap potential including saturation effects. Annales Geophysicae, 2005, 23, 3533-3547.	1.6	52
51	Understanding storm-time ring current development through data-model comparisons of a moderate storm. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	51
52	Statistical study of the subauroral polarization stream: Its dependence on the crossâ€polar cap potential and subauroral conductance. Journal of Geophysical Research, 2008, 113, .	3.3	50
53	Dependence of neutral winds on convection E-field, solar EUV, and auroral particle precipitation at high latitudes. Journal of Geophysical Research, 2006, 111, .	3.3	49
54	Dynamical effects of internal gravity waves in the equinoctial thermosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 90-91, 104-116.	1.6	49

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55	Effects of seasonal changes in the ionospheric conductances on magnetospheric field-aligned currents. Geophysical Research Letters, 2007, 34, .	4.0	48
56	Exploring the influence of ionospheric O⁺ outflow on magnetospheric dynamics: dependence on the source location. Journal of Geophysical Research: Space Physics, 2013, 118, 1711-1722.	2.4	48
57	Waves on the dusk flank boundary layer during very northward interplanetary magnetic field conditions: Observations and simulation. Journal of Geophysical Research, 2007, 112, .	3.3	47
58	Polar wind outflow model: Saturn results. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	45
59	Data assimilation and driver estimation for the Global Ionosphereâ€“Thermosphere Model using the Ensemble Adjustment Kalman Filter. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 104, 126-136.	1.6	44
60	Assessing the Quality of Models of the Ambient Solar Wind. Space Weather, 2018, 16, 1644-1667.	3.7	44
61	Multi-instrument analysis of the ionospheric signatures of a hot flow anomaly occurring on July 24, 1996. Journal of Geophysical Research, 1998, 103, 23357-23372.	3.3	43
62	Open-closed field line boundary position: A parametric study using an MHD model. Journal of Geophysical Research, 2004, 109, .	3.3	43
63	Modeling ionospheric <I>fo</I>F2 by using empirical orthogonal function analysis. Annales Geophysicae, 2011, 29, 1501-1515.	1.6	43
64	A global model: Empirical orthogonal function analysis of total electron content 1999â€“2009 data. Journal of Geophysical Research, 2012, 117, .	3.3	43
65	Numerical considerations in simulating the global magnetosphere. Annales Geophysicae, 2010, 28, 1589-1614.	1.6	42
66	Including gap region fieldâ€aligned currents and magnetospheric currents in the MHD calculation of groundâ€based magnetic field perturbations. Journal of Geophysical Research, 2010, 115, .	3.3	42
67	An empirical model of the ionospheric electric potential. Geophysical Research Letters, 2000, 27, 3675-3678.	4.0	41
68	Exploring sources of magnetospheric plasma using multispecies MHD. Journal of Geophysical Research, 2010, 115, .	3.3	41
69	The nightside poleward boundary of the auroral oval as seen by DMSP and the Ultraviolet Imager. Journal of Geophysical Research, 2000, 105, 21267-21280.	3.3	40
70	A new ionospheric electron precipitation module coupled with RAMâ€SCB within the geospace general circulation model. Journal of Geophysical Research: Space Physics, 2016, 121, 8554-8575.	2.4	40
71	A statistical study of BRIs (SMCs), isolated substorms, and individual sawtooth injections. Journal of Geophysical Research, 2009, 114, .	3.3	39
72	Large-Scale Measurements of Thermospheric Dynamics with a Multisite Fabry-Perot Interferometer Network: Overview of Plans and Results from Midlatitude Measurements. International Journal of Geophysics, 2012, 2012, 1-10.	1.1	39

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73	High-latitude ionospheric response to a sudden impulse event during northward IMF conditions. Journal of Geophysical Research, 2000, 105, 2521-2531.	3.3	38
74	Modeling the Sun-to-Earth propagation of a very fast CME. Advances in Space Research, 2006, 38, 253-262.	2.6	38
75	Developing a selfâ€consistent description of Titan's upper atmosphere without hydrodynamic escape. Journal of Geophysical Research: Space Physics, 2014, 119, 4957-4972.	2.4	38
76	Analyzing electric field morphology through data-model comparisons of the Geospace Environment Modeling Inner Magnetosphere/Storm Assessment Challenge events. Journal of Geophysical Research, 2006, 111, .	3.3	37
77	Effects of Uncertainties in the Atmospheric Density on the Probability of Collision Between Space Objects. Space Weather, 2018, 16, 519-537.	3.7	37
78	Internal reconnection for northward interplanetary magnetic field. Journal of Geophysical Research, 2005, 110, .	3.3	36
79	Three-fluid Ohm's law. Journal of Geophysical Research, 2001, 106, 8149-8156.	3.3	35
80	Comparison of photometer and global MHD determination of the open-closed field line boundary. Journal of Geophysical Research, 2004, 109, .	3.3	35
81	Magnetospheric convection electric field dynamics andstormtime particle energization: case study of the magneticstorm of 4 May 1998. Annales Geophysicae, 2004, 22, 497-510.	1.6	34
82	Response of the magnetosphereâ€ionosphere system to a sudden southward turning of interplanetary magnetic field. Journal of Geophysical Research, 2009, 114, .	3.3	34
83	Simulating the oneâ€dimensional structure of Titan's upper atmosphere: 1. Formulation of the Titan Global Ionosphereâ€Thermosphere Model and benchmark simulations. Journal of Geophysical Research, 2010, 115, .	3.3	34
84	Consequences of a saturated convection electric field on the ring current. Geophysical Research Letters, 2002, 29, 62-1-62-4.	4.0	33
85	Statistical analysis of ionospheric potential patterns for isolated substorms and sawtooth events. Annales Geophysicae, 2006, 24, 1977-1991.	1.6	31
86	Adaptive Mesh Refinement for Global Magnetohydrodynamic Simulation. Lecture Notes in Physics, 2003, , 247-274.	0.7	30
87	Plasma Flow and Related Phenomena inÂPlanetaryÂAeronomy. Space Science Reviews, 2008, 139, 311-353.	8.1	30
88	Balanced reconnection intervals: four case studies. Annales Geophysicae, 2008, 26, 3897-3912.	1.6	30
89	Systematic evaluation of ground and geostationary magnetic field predictions generated by global magnetohydrodynamic models. Journal of Geophysical Research, 2010, 115, .	3.3	30
90	Geospace Environment Modeling 2008â€“2009 Challenge: Geosynchronous magnetic field. Space Weather, 2011, 9, .	3.7	30

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91	The NASA EV-2 Cyclone Global Navigation Satellite System (CYGNSS) mission. , 2013, , .		30
92	Seasonal dependence of northern highâ€latitude upper thermospheric winds: A quiet time climatological study based on groundâ€based and spaceâ€based measurements. Journal of Geophysical Research: Space Physics, 2017, 122, 2619-2644.	2.4	30
93	Effects of electric field methods on modeling the midlatitude ionospheric electrodynamics and inner magnetosphere dynamics. Journal of Geophysical Research: Space Physics, 2017, 122, 5321-5338.	2.4	30
94	Ionospheric observations of magnetospheric low-latitude boundary layer waves on August 4, 1991. Journal of Geophysical Research, 1995, 100, 21873-21884.	3.3	29
95	Validation of the Space Weather Modeling Framework using observations from CHAMP and DMSP. Space Weather, 2008, 6, .	3.7	29
96	Evidence for potential and inductive convection during intense geomagnetic events using normalized superposed epoch analysis. Journal of Geophysical Research: Space Physics, 2013, 118, 181-191.	2.4	29
97	Relationship Between Temporal and Spatial Resolution for a Constellation of GNSS-R Satellites. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 16-25.	4.9	29
98	A semiempirical equatorial mapping of AMIE convection electric potentials (MACEP) for the January 10, 1997, magnetic storm. Journal of Geophysical Research, 2001, 106, 12903-12917.	3.3	28
99	Analyzing the hemispheric asymmetry in the thermospheric density response to geomagnetic storms. Journal of Geophysical Research, 2012, 117, .	3.3	28
100	On the performance of global magnetohydrodynamic models in the Earth's magnetosphere. Space Weather, 2013, 11, 313-326.	3.7	28
101	GITMâ€Data Comparisons of the Depletion and Enhancement During the 2017 Solar Eclipse. Geophysical Research Letters, 2018, 45, 3319-3327.	4.0	28
102	Role of vertical ion convection in the high-latitude ionospheric plasma distribution. Journal of Geophysical Research, 2006, 111, .	3.3	27
103	Simulating the oneâ€dimensional structure of Titan's upper atmosphere: 2. Alternative scenarios for methane escape. Journal of Geophysical Research, 2010, 115, .	3.3	27
104	Understanding the response of the ionosphere-magnetosphere system to sudden solar wind density increases. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	27
105	Maximizing photovoltaic power generation of a space-dart configured satellite. Acta Astronautica, 2015, 111, 283-299.	3.2	27
106	Seasonal Dependence of Geomagnetic Activeâ€Time Northern Highâ€Latitude Upper Thermospheric Winds. Journal of Geophysical Research: Space Physics, 2018, 123, 739-754.	2.4	27
107	MHD simulations of quadrupolar paleomagnetospheres. Journal of Geophysical Research, 2004, 109, .	3.3	26
108	A statistical comparison of the AMIE derived and DMSP-SSIES observed high-latitude ionospheric electric field. Journal of Geophysical Research, 2006, 111, .	3.3	26

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109	An autonomous adaptive low-power instrument platform (AAL-PIP) for remote high-latitude geospace data collection. Geoscientific Instrumentation, Methods and Data Systems, 2014, 3, 211-227.	1.6	26
110	The Response of the Ionosphereâ€Thermosphere System to the 21 August 2017 Solar Eclipse. Journal of Geophysical Research: Space Physics, 2019, 124, 7341-7355.	2.4	26
111	Theoretical study of zonal differences of electron density at midlatitudes with GITM simulation. Journal of Geophysical Research: Space Physics, 2015, 120, 2951-2966.	2.4	25
112	The response of the magnetosphere-ionosphere system to a sudden dynamic pressure enhancement under southward IMF conditions. Annales Geophysicae, 2009, 27, 4391-4407.	1.6	25
113	Characterization of the dynamic variations of the dayside highâ€latitude ionospheric convection reversal boundary and relationship to interplanetary magnetic field orientation. Journal of Geophysical Research, 1996, 101, 10919-10938.	3.3	24
114	Field line resonant pulsations associated with a strong dayside ionospheric shear convection flow reversal. Journal of Geophysical Research, 1997, 102, 4585-4596.	3.3	24
115	Energy input into the upper atmosphere associated with high-speed solar wind streams in 2005. Journal of Geophysical Research, 2011, 116, .	3.3	24
116	Simulating the one-dimensional structure of Titan's upper atmosphere: 3. Mechanisms determining methane escape. Journal of Geophysical Research, 2011, 116, .	3.3	24
117	Retrospectiveâ€costâ€based adaptive model refinement for the ionosphere and thermosphere. Statistical Analysis and Data Mining, 2011, 4, 446-458.	2.8	24
118	Conductance Model for Extreme Events: Impact of Auroral Conductance on Space Weather Forecasts. Space Weather, 2020, 18, e2020SW002551.	3.7	24
119	Reply [to â€œComment on â€œA statistical study of the ionospheric convection response to changing interplanetary magnetic field conditions using the assimilative mapping of ionospheric electrodynamics techniqueâ€•by A.J. Ridley et al.â€]. Journal of Geophysical Research, 1999, 104, 4393-4396.	3.3	23
120	Stormtime particle energization with high temporal resolution AMIE potentials. Journal of Geophysical Research, 2004, 109, .	3.3	23
121	Selfâ€consistent model of magnetospheric electric field, ring current, plasmasphere, and electromagnetic ion cyclotron waves: Initial results. Journal of Geophysical Research, 2009, 114, .	3.3	23
122	Storm time response of the midlatitude thermosphere: Observations from a network of Fabryâ€Perot interferometers. Journal of Geophysical Research: Space Physics, 2014, 119, 6758-6773.	2.4	23
123	Origin of the interhemispheric potential mismatch of merging cells for interplanetary magnetic field B_Yâ€dominated periods. Journal of Geophysical Research, 2007, 112, .	3.3	22
124	Quiet-time low latitude ionospheric electrodynamics in the non-hydrostatic Global Ionosphereâ€“Thermosphere Model. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 80, 161-172.	1.6	22
125	Predictions of the solar wind speed by the probability distribution function model. Space Weather, 2014, 12, 337-353.	3.7	22
126	Atmospheric Gravity Waves in the Ionosphere and Thermosphere During the 2017 Solar Eclipse. Geophysical Research Letters, 2018, 45, 5246-5252.	4.0	22

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127	Validation of Ionospheric Specifications During Geomagnetic Storms: TEC and foF2 During the 2013 March Storm Event. Space Weather, 2018, 16, 1686-1701.	3.7	22
128	Global analysis of three traveling vortex events during the November 1993 storm using the assimilative mapping of ionospheric electrodynamics technique. Journal of Geophysical Research, 1998, 103, 26349-26358.	3.3	21
129	Dynamic response of Earth's magnetosphere toByreversals. Journal of Geophysical Research, 2003, 108, .	3.3	21
130	Technique: Large-scale ionospheric conductance estimated from combined satellite and ground-based electromagnetic data. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	21
131	Comparison of the observed dependence of large-scale Birkeland currents on solar wind parameters with that obtained from global simulations. Annales Geophysicae, 2011, 29, 1809-1826.	1.6	21
132	Electrodynamics of the highâ€latitude trough: Its relationship with convection flows and fieldâ€aligned currents. Journal of Geophysical Research: Space Physics, 2013, 118, 2565-2572.	2.4	21
133	Temporal evolution of the transpolar potential after a sharp enhancement in solar wind dynamic pressure. Geophysical Research Letters, 2008, 35, .	4.0	20
134	The effect of smoothed solar wind inputs on global modeling results. Journal of Geophysical Research, 2010, 115, .	3.3	20
135	Highâ€latitude ionospheric drivers and their effects on wind patterns in the thermosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 715-735.	2.4	20
136	Comparison of the openâ€closed separatrix in a global magnetospheric simulation with observations: The role of the ring current. Journal of Geophysical Research, 2010, 115, .	3.3	19
137	PFISR observation of intense ion upflow fluxes associated with an SED during the 1 June 2013 geomagnetic storm. Journal of Geophysical Research: Space Physics, 2017, 122, 2589-2604.	2.4	19
138	A statistical analysis of the assimilative mapping of ionospheric electrodynamics auroral specification. Journal of Geophysical Research, 2005, 110, .	3.3	18
139	Simulation of non-hydrostatic gravity wave propagation in the upper atmosphere. Annales Geophysicae, 2014, 32, 443-447.	1.6	18
140	A Yearâ€Long Comparison of GPS TEC and Global Ionosphereâ€Thermosphere Models. Journal of Geophysical Research: Space Physics, 2018, 123, 1410-1428.	2.4	18
141	Comment on â€œNonlinear response of the polar ionosphere to large values of the interplanetary electric fieldâ€• by C. T. Russell et al.. Journal of Geophysical Research, 2002, 107, SIA 13-1-SIA 13-4.	3.3	17
142	Reconciling prediction algorithms forDst. Journal of Geophysical Research, 2005, 110, .	3.3	17
143	Effect of the altitudinal variation of the gravitational acceleration on the thermosphere simulation. Journal of Geophysical Research, 2008, 113, .	3.3	17
144	The effects of different solar flare characteristics on the global thermosphere. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 1840-1848.	1.6	17

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145	Effects of high-latitude thermosphere heating at various scale sizes simulated by a nonhydrostatic global thermosphereâ€“ionosphere model. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 592-600.	1.6	17
146	Solar wind density controlling penetration electric field at the equatorial ionosphere during a saturation of cross polar cap potential. Journal of Geophysical Research, 2012, 117, .	3.3	17
147	Rating global magnetosphere model simulations through statistical dataâ€model comparisons. Space Weather, 2016, 14, 819-834.	3.7	17
148	CEDARâ€GEM Challenge for Systematic Assessment of Ionosphere/Thermosphere Models in Predicting TEC During the 2006 December Storm Event. Space Weather, 2017, 15, 1238-1256.	3.7	17
149	Comparison of satellite ion drift velocities with AMIE deduced convection patterns. Journal of Atmospheric and Solar-Terrestrial Physics, 2005, 67, 1463-1479.	1.6	16
150	The outer radiation belt injection, transport, acceleration and loss satellite (ORBITALS): A canadian small satellite mission for ILWS. Advances in Space Research, 2006, 38, 1838-1860.	2.6	16
151	Importance of capturing heliospheric variability for studies of thermospheric vertical winds. Journal of Geophysical Research, 2012, 117, .	3.3	16
152	Thermospheric winds around the cusp region. Journal of Geophysical Research: Space Physics, 2015, 120, 1248-1255.	2.4	16
153	Multi-point observations and modeling of subauroral polarization streams (SAPS) and double-peak subauroral ion drifts (DSAIDs): A case study. Advances in Space Research, 2019, 63, 3522-3535.	2.6	16
154	Quantifying the effect of thermospheric parameterization in a global model. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 2017-2026.	1.6	15
155	Modeling the ionospheric response to the 28 October 2003 solar flare due to coupling with the thermosphere. Radio Science, 2009, 44, .	1.6	15
156	An Ionosphere Specification Technique Based on Data Ingestion Algorithm and Empirical Orthogonal Function Analysis Method. Space Weather, 2018, 16, 1410-1423.	3.7	15
157	Comparison of Joule heating associated with high-speed solar wind between different models and observations. Journal of Atmospheric and Solar-Terrestrial Physics, 2012, 75-76, 5-14.	1.6	14
158	Exploring the influence of ionospheric O⁺ outflow on magnetospheric dynamics: The effect of outflow intensity. Journal of Geophysical Research: Space Physics, 2013, 118, 5522-5531.	2.4	14
159	Simulating electron and ion temperature in a global ionosphere thermosphere model: Validation and modeling an idealized substorm. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 138-139, 243-260.	1.6	14
160	The effect of ring current electron scattering rates on magnetosphereâ€ionosphere coupling. Journal of Geophysical Research: Space Physics, 2017, 122, 4168-4189.	2.4	14
161	Global 30â€“240 keV proton precipitation in the 17â€“18 April 2002 geomagnetic storms: 3. Impact on the ionosphere and thermosphere. Journal of Geophysical Research, 2007, 112, .	3.3	13
162	Global model comparison with Millstone Hill during September 2005. Journal of Geophysical Research, 2008, 113, .	3.3	13

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163	Quiet time observations of the openâ€closed boundary prior to the CIRâ€induced storm of 9 August 2008. Space Weather, 2011, 9, .	3.7	13
164	Retrospective-cost-based model refinement for system emulation and subsystem identification. , 2011, , .		13
165	The CYGNSS flight segment; A major NASA science mission enabled by micro-satellite technology. , 2013, , .		13
166	HLâ€TWiM Empirical Model of Highâ€Latitude Upper Thermospheric Winds. Journal of Geophysical Research: Space Physics, 2019, 124, 10592-10618.	2.4	13
167	Variations of the thermospheric nitric oxide mass mixing ratio as a function of Kp, altitude, and magnetic local time. Geophysical Research Letters, 1999, 26, 1541-1544.	4.0	12
168	The dependence of winter aurora on interplanetary parameters. Journal of Geophysical Research, 2003, 108, .	3.3	12
169	A parametric study of magnetosphereâ€“ionosphere coupling in the paleomagnetosphere. Advances in Space Research, 2006, 38, 1707-1712.	2.6	12
170	SWMF simulation of field-aligned currents for a varying northward and duskward IMF with nonzero dipole tilt. Annales Geophysicae, 2008, 26, 1461-1477.	1.6	12
171	Longâ€lasting goodshielding at the equatorial ionosphere. Journal of Geophysical Research, 2010, 115, .	3.3	12
172	Strong ionospheric fieldâ€aligned currents for radial interplanetary magnetic fields. Journal of Geophysical Research: Space Physics, 2014, 119, 3979-3995.	2.4	12
173	Retrospective-Cost-Based Adaptive Input and State Estimation for the Ionosphereâ€“Thermosphere. Journal of Aerospace Information Systems, 2015, 12, 767-783.	1.4	12
174	Relative Ionospheric Ranging Delay in LEO GNSS Oceanic Reflections. IEEE Geoscience and Remote Sensing Letters, 2015, 12, 1416-1420.	3.1	12
175	Hemispheric differences in the response of the upper atmosphere to the August 2011 geomagnetic storm: A simulation study. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 141, 13-26.	1.6	12
176	Thermospheric Weather as Observed by Groundâ€Based FPIs and Modeled by GITM. Journal of Geophysical Research: Space Physics, 2019, 124, 1307-1316.	2.4	12
177	Specification of the Ionosphere-Thermosphere Using the Ensemble Kalman Filter. Lecture Notes in Computer Science, 2015, , 274-283.	1.3	12
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