

# Aaron J Ridley

## List of Publications by Citations

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251  
papers

7,661  
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47  
h-index

74  
g-index

277  
ext. papers

8,576  
ext. citations

2.8  
avg, IF

5.94  
L-index

#	Paper	IF	Citations
251	Space Weather Modeling Framework: A new tool for the space science community. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		506
250	The global ionosphere-thermosphere model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2006</b> , 68, 839-864	2	307
249	Ionospheric control of the magnetosphere: conductance. <i>Annales Geophysicae</i> , <b>2004</b> , 22, 567-584	2	281
248	Modeling a space weather event from the Sun to the Earth: CME generation and interplanetary propagation. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		205
247	A statistical study of the ionospheric convection response to changing interplanetary magnetic field conditions using the assimilative mapping of ionospheric electrodynamics technique. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 4023-4039		203
246	New Ocean Winds Satellite Mission to Probe Hurricanes and Tropical Convection. <i>Bulletin of the American Meteorological Society</i> , <b>2016</b> , 97, 385-395	6.1	183
245	Coupling of a global MHD code and an inner magnetospheric model: Initial results. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		181
244	A New Paradigm in Earth Environmental Monitoring with the CYGNSS Small Satellite Constellation. <i>Scientific Reports</i> , <b>2018</b> , 8, 8782	4.9	117
243	A model-derived storm time asymmetric ring current driven electric field description. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SMP 2-1-SMP 2-12		109
242	MAGNETOSPHERIC STRUCTURE AND ATMOSPHERIC JOULE HEATING OF HABITABLE PLANETS ORBITING M-DWARF STARS. <i>Astrophysical Journal</i> , <b>2014</b> , 790, 57	4.7	101
241	Community-wide validation of geospace model ground magnetic field perturbation predictions to support model transition to operations. <i>Space Weather</i> , <b>2013</b> , 11, 369-385	3.7	99
240	Magnetospheric configuration and dynamics of Saturn's magnetosphere: A global MHD simulation. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		98
239	Multistep Dst development and ring current composition changes during the 4 <sup>th</sup> June 1991 magnetic storm. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SMP 33-1-SMP 33-22		95
238	Transpolar potential saturation models compared. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		90
237	Sun-to-thermosphere simulation of the 28 <sup>th</sup> October 2003 storm with the Space Weather Modeling Framework. <i>Space Weather</i> , <b>2007</b> , 5, n/a-n/a	3.7	85
236	Computational analysis of the near-Earth magnetospheric current system during two-phase decay storms. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 29531-29542		83
235	The CYGNSS nanosatellite constellation hurricane mission <b>2012</b> ,		78

234	Saturation of the polar cap potential: Inference from Alfvén wing arguments. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		78
233	Dependence of plasmaspheric morphology on the electric field description during the recovery phase of the 17 April 2002 magnetic storm. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		72
232	Neutral Upper Atmosphere and Ionosphere Modeling. <i>Space Science Reviews</i> , <b>2008</b> , 139, 107-141	7.5	70
231	Assessment of the non-hydrostatic effect on the upper atmosphere using a general circulation model (GCM). <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	67
230	Polar cap index comparisons with AMIE cross polar cap potential, electric field, and polar cap area. <i>Geophysical Research Letters</i> , <b>2004</b> , 31, n/a-n/a	4.9	67
229	A large-scale traveling ionospheric disturbance during the magnetic storm of 15 September 1999. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SIA 5-1		67
228	Multiscale modeling of magnetospheric reconnection. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		64
227	Geospace Environment Modeling 2008-2009 Challenge: Ground magnetic field perturbations. <i>Space Weather</i> , <b>2011</b> , 9, n/a-n/a	3.7	61
226	Ionospheric convection during nonsteady interplanetary magnetic field conditions. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 14563-14579		61
225	Midlatitude Plasma Bubbles Over China and Adjacent Areas During a Magnetic Storm on 8 September 2017. <i>Space Weather</i> , <b>2018</b> , 16, 321-331	3.7	60
224	Parametric analysis of nightside conductance effects on inner magnetospheric dynamics for the 17 April 2002 storm. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		60
223	Transformation of high-latitude ionospheric F region patches into blobs during the March 21, 1990, storm. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 5215-5230		58
222	CEDAR Electrodynamic Thermosphere Ionosphere (ETI) Challenge for systematic assessment of ionosphere/thermosphere models: NmF2, hmF2, and vertical drift using ground-based observations. <i>Space Weather</i> , <b>2011</b> , 9, n/a-n/a	3.7	57
221	The magnetospheric and ionospheric response to a very strong interplanetary shock and coronal mass ejection. <i>Advances in Space Research</i> , <b>2006</b> , 38, 263-272	2.4	57
220	University of Michigan MHD results of the Geospace Global Circulation Model metrics challenge. <i>Journal of Geophysical Research</i> , <b>2002</b> , 107, SMP 12-1		57
219	Strong bulk plasma acceleration in Earth's magnetosheath: A magnetic slingshot effect?. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	56
218	Solution-adaptive magnetohydrodynamics for space plasmas: Sun-to-Earth simulations. <i>Computing in Science and Engineering</i> , <b>2004</b> , 6, 14-35	1.5	56
217	Global MHD simulations of Saturn's magnetosphere at the time of Cassini approach. <i>Geophysical Research Letters</i> , <b>2005</b> , 32,	4.9	55

216	Using steady state MHD results to predict the global state of the magnetosphere-ionosphere system. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 30067-30076		55
215	Alfvén wings at Earth's magnetosphere under strong interplanetary magnetic fields. <i>Annales Geophysicae</i> , <b>2007</b> , 25, 533-542	2	54
214	Possible reasons for underestimating Joule heating in global models: E field variability, spatial resolution, and vertical velocity. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		53
213	CEDAR Electroynamics Thermosphere Ionosphere (ETI) Challenge for systematic assessment of ionosphere/thermosphere models: Electron density, neutral density, NmF2, and hmF2 using space based observations. <i>Space Weather</i> , <b>2012</b> , 10, n/a-n/a	3.7	52
212	Validation of SWMF magnetic field and plasma. <i>Space Weather</i> , <b>2010</b> , 8, n/a-n/a	3.7	52
211	Theoretical study: Influence of different energy sources on the cusp neutral density enhancement. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 2340-2349	2.6	51
210	Modeling the thermospheric response to solar flares. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113,		50
209	On the generation/decay of the storm-enhanced density plumes: Role of the convection flow and field-aligned ion flow. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 8543-8559	2.6	47
208	Dynamical effects of internal gravity waves in the equinoctial thermosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2012</b> , 90-91, 104-116	2	47
207	Impact of the altitudinal Joule heating distribution on the thermosphere. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		47
206	Validation of the space weather modeling framework using ground-based magnetometers. <i>Space Weather</i> , <b>2008</b> , 6, n/a-n/a	3.7	47
205	High-latitude Joule heating response to IMF inputs. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		47
204	Understanding storm-time ring current development through data-model comparisons of a moderate storm. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		46
203	Ionospheric control of the magnetospheric configuration: Thermospheric neutral winds. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		45
202	Effects of seasonal changes in the ionospheric conductances on magnetospheric field-aligned currents. <i>Geophysical Research Letters</i> , <b>2007</b> , 34,	4.9	44
201	Dependence of neutral winds on convection E-field, solar EUV, and auroral particle precipitation at high latitudes. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		44
200	A new formulation for the ionospheric cross polar cap potential including saturation effects. <i>Annales Geophysicae</i> , <b>2005</b> , 23, 3533-3547	2	44
199	Statistical study of the subauroral polarization stream: Its dependence on the crosspolar cap potential and subauroral conductance. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		43

198	Exploring the influence of ionospheric O <sup>+</sup> outflow on magnetospheric dynamics: dependence on the source location. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 1711-1722	2.6	42
197	Waves on the dusk flank boundary layer during very northward interplanetary magnetic field conditions: Observations and simulation. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		42
196	Multi-instrument analysis of the ionospheric signatures of a hot flow anomaly occurring on July 24, 1996. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 23357-23372		42
195	Multi-instrument observations of SED during 24-25 October 2011 storm: Implications for SED formation processes. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 7798-7809	2.6	41
194	Polar wind outflow model: Saturn results. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		41
193	Modeling the Sun-to-Earth propagation of a very fast CME. <i>Advances in Space Research</i> , <b>2006</b> , 38, 253-262	4	38
192	An empirical model of the ionospheric electric potential. <i>Geophysical Research Letters</i> , <b>2000</b> , 27, 3675-3678	3	37
191	Including gap region field-aligned currents and magnetospheric currents in the MHD calculation of ground-based magnetic field perturbations. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		35
190	A global model: Empirical orthogonal function analysis of total electron content 1999-2009 data. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		34
189	Numerical considerations in simulating the global magnetosphere. <i>Annales Geophysicae</i> , <b>2010</b> , 28, 1589-1614		34
188	Analyzing electric field morphology through data-model comparisons of the Geospace Environment Modeling Inner Magnetosphere/Storm Assessment Challenge events. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		34
187	Exploring sources of magnetospheric plasma using multispecies MHD. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		33
186	A statistical study of BRIs (SMCs), isolated substorms, and individual sawtooth injections. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		33
185	Magnetospheric convection electric field dynamics and stormtime particle energization: case study of the magnetic storm of 4 May 1998. <i>Annales Geophysicae</i> , <b>2004</b> , 22, 497-510	2	33
184	Simulating the one-dimensional structure of Titan's upper atmosphere: 1. Formulation of the Titan Global Ionosphere-Thermosphere Model and benchmark simulations. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		32
183	Modeling ionospheric <math>f_oF_2</math> by using empirical orthogonal function analysis. <i>Annales Geophysicae</i> , <b>2011</b> , 29, 1501-1515	2	32
182	High-latitude ionospheric response to a sudden impulse event during northward IMF conditions. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 2521-2531		32
181	Merging of Storm Time Midlatitude Traveling Ionospheric Disturbances and Equatorial Plasma Bubbles. <i>Space Weather</i> , <b>2019</b> , 17, 285-298	3.7	30

180	Developing a self-consistent description of Titan's upper atmosphere without hydrodynamic escape. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 4957-4972	2.6	30
179	Data assimilation and driver estimation for the Global Ionosphere-Thermosphere Model using the Ensemble Adjustment Kalman Filter. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2013</b> , 104, 126-136	3.0	30
178	Internal reconnection for northward interplanetary magnetic field. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		30
177	Open-closed field line boundary position: A parametric study using an MHD model. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		30
176	Assessing the Quality of Models of the Ambient Solar Wind. <i>Space Weather</i> , <b>2018</b> , 16, 1644-1667	3.7	30
175	A new ionospheric electron precipitation module coupled with RAM-SCB within the geospace general circulation model. <i>Journal of Geophysical Research: Space Physics</i> , <b>2016</b> , 121, 8554-8575	2.6	29
174	Large-Scale Measurements of Thermospheric Dynamics with a Multisite Fabry-Perot Interferometer Network: Overview of Plans and Results from Midlatitude Measurements. <i>International Journal of Geophysics</i> , <b>2012</b> , 2012, 1-10	2	29
173	Evidence for potential and inductive convection during intense geomagnetic events using normalized superposed epoch analysis. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 181-191 <sup>2.6</sup>	2.6	28
172	Systematic evaluation of ground and geostationary magnetic field predictions generated by global magnetohydrodynamic models. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		28
171	Comparison of photometer and global MHD determination of the open-closed field line boundary. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		28
170	Simulating the one-dimensional structure of Titan's upper atmosphere: 2. Alternative scenarios for methane escape. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115,		27
169	Response of the magnetosphere-ionosphere system to a sudden southward turning of interplanetary magnetic field. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		27
168	Plasma Flow and Related Phenomena in Planetary Aeronomy. <i>Space Science Reviews</i> , <b>2008</b> , 139, 311-353 <sup>7.5</sup>	7.5	27
167	Statistical analysis of ionospheric potential patterns for isolated substorms and sawtooth events. <i>Annales Geophysicae</i> , <b>2006</b> , 24, 1977-1991	2	27
166	The nightside poleward boundary of the auroral oval as seen by DMSP and the Ultraviolet Imager. <i>Journal of Geophysical Research</i> , <b>2000</b> , 105, 21267-21280		27
165	Three-fluid Ohm's law. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 8149-8156		27
164	Balanced reconnection intervals: four case studies. <i>Annales Geophysicae</i> , <b>2008</b> , 26, 3897-3912	2	26
163	Consequences of a saturated convection electric field on the ring current. <i>Geophysical Research Letters</i> , <b>2002</b> , 29, 62-1-62-4	4.9	26

162	A semiempirical equatorial mapping of AMIE convection electric potentials (MACEP) for the January 10, 1997, magnetic storm. <i>Journal of Geophysical Research</i> , <b>2001</b> , 106, 12903-12917		26
161	Geospace Environment Modeling 2008-2009 Challenge: Geosynchronous magnetic field. <i>Space Weather</i> , <b>2011</b> , 9, n/a-n/a	3.7	25
160	Validation of the Space Weather Modeling Framework using observations from CHAMP and DMSP. <i>Space Weather</i> , <b>2008</b> , 6, n/a-n/a	3.7	25
159	Ionospheric observations of magnetospheric low-latitude boundary layer waves on August 4, 1991. <i>Journal of Geophysical Research</i> , <b>1995</b> , 100, 21873-21884		25
158	Seasonal dependence of northern high-latitude upper thermospheric winds: A quiet time climatological study based on ground-based and space-based measurements. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 2619-2644	2.6	24
157	Simulating the one-dimensional structure of Titan's upper atmosphere: 3. Mechanisms determining methane escape. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		24
156	Adaptive Mesh Refinement for Global Magnetohydrodynamic Simulation. <i>Lecture Notes in Physics</i> , <b>2003</b> , 247-274	0.8	24
155	Effects of Uncertainties in the Atmospheric Density on the Probability of Collision Between Space Objects. <i>Space Weather</i> , <b>2018</b> , 16, 519-537	3.7	23
154	A statistical comparison of the AMIE derived and DMSP-SSIES observed high-latitude ionospheric electric field. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		23
153	Seasonal Dependence of Geomagnetic Active-Time Northern High-Latitude Upper Thermospheric Winds. <i>Journal of Geophysical Research: Space Physics</i> , <b>2018</b> , 123, 739-754	2.6	22
152	Understanding the response of the ionosphere-magnetosphere system to sudden solar wind density increases. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116, n/a-n/a		22
151	Self-consistent model of magnetospheric electric field, ring current, plasmasphere, and electromagnetic ion cyclotron waves: Initial results. <i>Journal of Geophysical Research</i> , <b>2009</b> , 114, n/a-n/a		22
150	Field line resonant pulsations associated with a strong dayside ionospheric shear convection flow reversal. <i>Journal of Geophysical Research</i> , <b>1997</b> , 102, 4585-4596		22
149	Role of vertical ion convection in the high-latitude ionospheric plasma distribution. <i>Journal of Geophysical Research</i> , <b>2006</b> , 111,		22
148	Stormtime particle energization with high temporal resolution AMIE potentials. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		22
147	Reply [to Comment on A statistical study of the ionospheric convection response to changing interplanetary magnetic field conditions using the assimilative mapping of ionospheric electrodynamic technique [by A.J. Ridley et al.]] <i>Journal of Geophysical Research</i> , <b>1999</b> , 104, 4393-4396		22
146	Effects of electric field methods on modeling the midlatitude ionospheric electrodynamic and inner magnetosphere dynamics. <i>Journal of Geophysical Research: Space Physics</i> , <b>2017</b> , 122, 5321-5338	2.6	21
145	Relationship Between Temporal and Spatial Resolution for a Constellation of GNSS-R Satellites. <i>IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing</i> , <b>2019</b> , 12, 16-25	4.7	21

144	Analyzing the hemispheric asymmetry in the thermospheric density response to geomagnetic storms. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		21
143	Energy input into the upper atmosphere associated with high-speed solar wind streams in 2005. <i>Journal of Geophysical Research</i> , <b>2011</b> , 116,		21
142	MHD simulations of quadrupolar paleomagnetospheres. <i>Journal of Geophysical Research</i> , <b>2004</b> , 109,		21
141	GITM-Data Comparisons of the Depletion and Enhancement During the 2017 Solar Eclipse. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 3319-3327	4.9	20
140	Quiet-time low latitude ionospheric electrodynamics in the non-hydrostatic Global Ionosphere-Thermosphere Model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2012</b> , 80, 161-172 <sup>2</sup>		20
139	Theoretical study of zonal differences of electron density at midlatitudes with GITM simulation. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 2951-2966	2.6	20
138	On the performance of global magnetohydrodynamic models in the Earth's magnetosphere. <i>Space Weather</i> , <b>2013</b> , 11, 313-326	3.7	20
137	The effect of smoothed solar wind inputs on global modeling results. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		20
136	Origin of the interhemispheric potential mismatch of merging cells for interplanetary magnetic field BY-dominated periods. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		20
135	Characterization of the dynamic variations of the dayside high-latitude ionospheric convection reversal boundary and relationship to interplanetary magnetic field orientation. <i>Journal of Geophysical Research</i> , <b>1996</b> , 101, 10919-10938		20
134	The response of the magnetosphere-ionosphere system to a sudden dynamic pressure enhancement under southward IMF conditions. <i>Annales Geophysicae</i> , <b>2009</b> , 27, 4391-4407	2	20
133	Comparison of the observed dependence of large-scale Birkeland currents on solar wind parameters with that obtained from global simulations. <i>Annales Geophysicae</i> , <b>2011</b> , 29, 1809-1826	2	19
132	Technique: Large-scale ionospheric conductance estimated from combined satellite and ground-based electromagnetic data. <i>Journal of Geophysical Research</i> , <b>2007</b> , 112, n/a-n/a		19
131	Maximizing photovoltaic power generation of a space-dart configured satellite. <i>Acta Astronautica</i> , <b>2015</b> , 111, 283-299	2.9	18
130	Storm time response of the midlatitude thermosphere: Observations from a network of Fabry-Perot interferometers. <i>Journal of Geophysical Research: Space Physics</i> , <b>2014</b> , 119, 6758-6773	2.6	18
129	Electrodynamics of the high-latitude trough: Its relationship with convection flows and field-aligned currents. <i>Journal of Geophysical Research: Space Physics</i> , <b>2013</b> , 118, 2565-2572	2.6	18
128	Global analysis of three traveling vortex events during the November 1993 storm using the assimilative mapping of ionospheric electrodynamics technique. <i>Journal of Geophysical Research</i> , <b>1998</b> , 103, 26349-26358		18
127	Atmospheric Gravity Waves in the Ionosphere and Thermosphere During the 2017 Solar Eclipse. <i>Geophysical Research Letters</i> , <b>2018</b> , 45, 5246-5252	4.9	17



126	The Response of the Ionosphere-Thermosphere System to the 21 August 2017 Solar Eclipse. <i>Journal of Geophysical Research: Space Physics</i> , <b>2019</b> , 124, 7341-7355	2.6	17
125	An autonomous adaptive low-power instrument platform (AAL-PIP) for remote high-latitude geospace data collection. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , <b>2014</b> , 3, 211-227	1.5	17
124	Comparison of the open-closed separatrix in a global magnetospheric simulation with observations: The role of the ring current. <i>Journal of Geophysical Research</i> , <b>2010</b> , 115, n/a-n/a		17
123	Temporal evolution of the transpolar potential after a sharp enhancement in solar wind dynamic pressure. <i>Geophysical Research Letters</i> , <b>2008</b> , 35,	4.9	17
122	Thermospheric winds around the cusp region. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 1248-1255	2.6	16
121	Effects of high-latitude thermosphere heating at various scale sizes simulated by a nonhydrostatic global thermosphere-ionosphere model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2011</b> , 73, 592-600	2	16
120	Dynamic response of Earth's magnetosphere to By reversals. <i>Journal of Geophysical Research</i> , <b>2003</b> , 108,		16
119	Validation of Ionospheric Specifications During Geomagnetic Storms: TEC and foF2 During the 2013 March Storm Event. <i>Space Weather</i> , <b>2018</b> , 16, 1686-1701	3.7	16
118	High-latitude ionospheric drivers and their effects on wind patterns in the thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , <b>2015</b> , 120, 715-735	2.6	15
117	Predictions of the solar wind speed by the probability distribution function model. <i>Space Weather</i> , <b>2014</b> , 12, 337-353	3.7	15
116	Importance of capturing heliospheric variability for studies of thermospheric vertical winds. <i>Journal of Geophysical Research</i> , <b>2012</b> , 117, n/a-n/a		15
115	A statistical analysis of the assimilative mapping of ionospheric electrodynamic auroral specification. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		15
114	Reconciling prediction algorithms for Dst. <i>Journal of Geophysical Research</i> , <b>2005</b> , 110,		15
113	Simulation of non-hydrostatic gravity wave propagation in the upper atmosphere. <i>Annales Geophysicae</i> , <b>2014</b> , 32, 443-447	2	14
112	The effects of different solar flare characteristics on the global thermosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2011</b> , 73, 1840-1848	2	14
111	Retrospective-cost-based adaptive model refinement for the ionosphere and thermosphere. <i>Statistical Analysis and Data Mining</i> , <b>2011</b> , 4, 446-458	1.4	14
110	Effect of the altitudinal variation of the gravitational acceleration on the thermosphere simulation. <i>Journal of Geophysical Research</i> , <b>2008</b> , 113, n/a-n/a		14
109	Comparison of satellite ion drift velocities with AMIE deduced convection patterns. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , <b>2005</b> , 67, 1463-1479	2	14

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