

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
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277
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277
docs citations

277
times ranked

4239
citing authors

#	ARTICLE	IF	CITATIONS
1	Impacts of Lower Thermospheric Atomic Oxygen and Dynamics on the Thermospheric Semiannual Oscillation Using GITM and WACCM-X. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	2
2	Statistical Characterization of GITM Thermospheric Horizontal Winds in Comparison to GOCE Estimations. Space Weather, 2022, 20, .	3.7	0
3	Simulating the Solar Wind-Magnetosphere Interaction During the Matuyama-Brunhes Paleomagnetic Reversal. Geophysical Research Letters, 2022, 49, .	4.0	4
4	Global Driving of Auroral Precipitation: 1. Balance of Sources. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	4
5	FTA: A Feature Tracking Empirical Model of Auroral Precipitation. Space Weather, 2021, 19, e2020SW002629.	3.7	6
6	Changes in the Magnetic Field Topology and the Dayside/Nightside Reconnection Rates in Response to a Solar Wind Dynamic Pressure Front: A Case Study. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028768.	2.4	5
7	Estimation of the thermospheric density using ephemerides of the CYGNSS and Swarm constellations. Journal of Atmospheric and Solar-Terrestrial Physics, 2021, 221, 105687.	1.6	1
8	Field-Aligned Current During an Interval of B _Y -Dominated Interplanetary Field; Modeled-to-Observed Comparisons. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	0
9	Thermosphere-Ionosphere Modeling With Forecastable Inputs: Case Study of the June 2012 High-Speed Stream Geomagnetic Storm. Space Weather, 2020, 18, e2019SW002352.	3.7	3
10	A Simple Method for Correcting Empirical Model Densities During Geomagnetic Storms Using Satellite Orbit Data. Space Weather, 2020, 18, e2020SW002565.	3.7	5
11	Impacts of Lower Thermospheric Atomic Oxygen on Thermospheric Dynamics and Composition Using the Global Ionosphere Thermosphere Model. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027877.	2.4	3
12	Conductance Model for Extreme Events: Impact of Auroral Conductance on Space Weather Forecasts. Space Weather, 2020, 18, e2020SW002551.	3.7	24
13	Estimation of Thermal-Conductivity Coefficients in the Global Ionosphere-Thermosphere Model. Journal of Aerospace Information Systems, 2020, 17, 546-553.	1.4	3
14	The Response of the Ionosphere-Thermosphere System to the 21 August 2017 Solar Eclipse. Journal of Geophysical Research: Space Physics, 2019, 124, 7341-7355.	2.4	26
15	HLWIM Empirical Model of High-Latitude Upper Thermospheric Winds. Journal of Geophysical Research: Space Physics, 2019, 124, 10592-10618.	2.4	13
16	Segmentation of SED by Boundary Flows Associated With Westward Drifting Partial Ring current. Geophysical Research Letters, 2019, 46, 7920-7928.	4.0	10
17	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
18	Quantifying the Storm Time Thermospheric Neutral Density Variations Using Model and Observations. Space Weather, 2019, 17, 269-284.	3.7	10

#	ARTICLE	IF	CITATIONS
19	Thermospheric Weather as Observed by Ground-Based FPIs and Modeled by GITM. Journal of Geophysical Research: Space Physics, 2019, 124, 1307-1316.	2.4	12
20	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
21	Merging of Storm Time Midlatitude Traveling Ionospheric Disturbances and Equatorial Plasma Bubbles. Space Weather, 2019, 17, 285-298.	3.7	58
22	Response of the Geospace System to the Solar Wind Dynamic Pressure Decrease on 11 June 2017: Numerical Models and Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 2613-2627.	2.4	4
23	Assessment of the Differential Drag Maneuver Operations on the CYGNSS Constellation. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2019, 12, 7-15.	4.9	6
24	Low-Density Cell of the Thermosphere at High Latitudes Revisited. Journal of Geophysical Research: Space Physics, 2019, 124, 521-533.	2.4	5
25	Atmospheric Gravity Waves in the Ionosphere and Thermosphere During the 2017 Solar Eclipse. Geophysical Research Letters, 2018, 45, 5246-5252.	4.0	22
26	The Spacecraft Orbital Characterization Kit and its Applications to the CYGNSS Mission.. , 2018, , .		10
27	A Year-Long Comparison of GPS TEC and Global Ionosphere-Thermosphere Models. Journal of Geophysical Research: Space Physics, 2018, 123, 1410-1428.	2.4	18
28	Seasonal Dependence of Geomagnetic Active-Time Northern High-Latitude Upper Thermospheric Winds. Journal of Geophysical Research: Space Physics, 2018, 123, 739-754.	2.4	27
29	Effects of Uncertainties in the Atmospheric Density on the Probability of Collision Between Space Objects. Space Weather, 2018, 16, 519-537.	3.7	37
30	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
31	Modeling Study of the Geospace System Response to the Solar Wind Dynamic Pressure Enhancement on 17 March 2015. Journal of Geophysical Research: Space Physics, 2018, 123, 2974-2989.	2.4	10
32	GITM-Data Comparisons of the Depletion and Enhancement During the 2017 Solar Eclipse. Geophysical Research Letters, 2018, 45, 3319-3327.	4.0	28
33	Assessing the Quality of Models of the Ambient Solar Wind. Space Weather, 2018, 16, 1644-1667.	3.7	44
34	Enabling Sampling Properties of the Cygnss Satellite Constellation. , 2018, , .		0
35	An Ionosphere Specification Technique Based on Data Ingestion Algorithm and Empirical Orthogonal Function Analysis Method. Space Weather, 2018, 16, 1410-1423.	3.7	15
36	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

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37	New results on the mid-latitude midnight temperature maximum. <i>Annales Geophysicae</i> , 2018, 36, 541-553.	1.6	8
38	Estimation of the Eddy Diffusion Coefficient Using Total Electron Content Data. , 2018, , .		2
39	A New Paradigm in Earth Environmental Monitoring with the CYGNSS Small Satellite Constellation. <i>Scientific Reports</i> , 2018, 8, 8782.	3.3	195
40	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> , 2017, 122, 2619-2644.	2.4	30
41	PFISR observation of intense ion upflow fluxes associated with an SED during the 1 June 2013 geomagnetic storm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2589-2604.	2.4	19
42	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.	2.4	30
43	The effect of ring current electron scattering rates on magnetosphere-ionosphere coupling. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4168-4189.	2.4	14
44	CEDAR-GEM Challenge for Systematic Assessment of Ionosphere/Thermosphere Models in Predicting TEC During the 2006 December Storm Event. <i>Space Weather</i> , 2017, 15, 1238-1256.	3.7	17
45	Effect of the solar activity variation on the Global Ionosphere Thermosphere Model (GITM). <i>Annales Geophysicae</i> , 2016, 34, 725-736.	1.6	5
46	Global response of the upper thermospheric winds to large ion drifts in the Jovian ovals. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 4647-4667.	2.4	6
47	Twenty-four hour predictions of the solar wind speed peaks by the probability distribution function model. <i>Space Weather</i> , 2016, 14, 861-873.	3.7	6
48	Geomagnetic disturbance intensity dependence on the universal timing of the storm peak. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7561-7571.	2.4	1
49	Universal time effect in the response of the thermosphere to electric field changes. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3681-3698.	2.4	9
50	Rating global magnetosphere model simulations through statistical data-model comparisons. <i>Space Weather</i> , 2016, 14, 819-834.	3.7	17
51	A new ionospheric electron precipitation module coupled with RAM-SCB within the geospace general circulation model. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8554-8575.	2.4	40
52	Investigating the performance of simplified neutral-ion collisional heating rate in a global IT model. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 578-588.	2.4	8
53	New Ocean Winds Satellite Mission to Probe Hurricanes and Tropical Convection. <i>Bulletin of the American Meteorological Society</i> , 2016, 97, 385-395.	3.3	285
54	Simulating electron and ion temperature in a global ionosphere thermosphere model: Validation and modeling an idealized substorm. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 138-139, 243-260.	1.6	14

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55	Hemispheric differences in the response of the upper atmosphere to the August 2011 geomagnetic storm: A simulation study. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2016, 141, 13-26.	1.6	12
56	Theoretical study of zonal differences of electron density at midlatitudes with GITM simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2951-2966.	2.4	25
57	A simulation study of the thermosphere mass density response to substorms using GITM. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7987-8001.	2.4	4
58	Retrospective-Cost-Based Adaptive Input and State Estimation for the Ionosphere-Thermosphere. <i>Journal of Aerospace Information Systems</i> , 2015, 12, 767-783.	1.4	12
59	Community-wide model validation study for systematic assessment of ionosphere models. , 2015, , .		0
60	Improving the ionospheric specification in the Global Ionosphere Thermosphere Model. , 2015, , .		0
61	High-latitude ionospheric drivers and their effects on wind patterns in the thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 715-735.	2.4	20
62	Maximizing photovoltaic power generation of a space-dart configured satellite. <i>Acta Astronautica</i> , 2015, 111, 283-299.	3.2	27
63	Thermospheric winds around the cusp region. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1248-1255.	2.4	16
64	Relative Ionospheric Ranging Delay in LEO GNSS Oceanic Reflections. <i>IEEE Geoscience and Remote Sensing Letters</i> , 2015, 12, 1416-1420.	3.1	12
65	Specification of the Ionosphere-Thermosphere Using the Ensemble Kalman Filter. <i>Lecture Notes in Computer Science</i> , 2015, , 274-283.	1.3	12
66	Simulation of non-hydrostatic gravity wave propagation in the upper atmosphere. <i>Annales Geophysicae</i> , 2014, 32, 443-447.	1.6	18
67	CYGNSS-based Ionospheric Electron Content Estimation: An Analysis. , 2014, , .		1
68	An autonomous adaptive low-power instrument platform (AAL-PIP) for remote high-latitude geospace data collection. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2014, 3, 211-227.	1.6	26
69	Modeling subsolar thermospheric waves during a solar flare and penetration electric fields. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 10,507.	2.4	4
70	CYGNSS: NASA Earth Venture Tropical Cyclone Mission. , 2014, , .		2
71	Storm time response of the midlatitude thermosphere: Observations from a network of Fabry-Perot interferometers. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6758-6773.	2.4	23
72	MAGNETOSPHERIC STRUCTURE AND ATMOSPHERIC JOULE HEATING OF HABITABLE PLANETS ORBITING M-DWARF STARS. <i>Astrophysical Journal</i> , 2014, 790, 57.	4.5	124

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73	Strong ionospheric field-aligned currents for radial interplanetary magnetic fields. Journal of Geophysical Research: Space Physics, 2014, 119, 3979-3995.	2.4	12
74	Predictions of the solar wind speed by the probability distribution function model. Space Weather, 2014, 12, 337-353.	3.7	22
75	The effect of background conditions on the ionospheric response to solar flares. Journal of Geophysical Research: Space Physics, 2014, 119, 5060-5075.	2.4	5
76	Developing a self-consistent description of Titan's upper atmosphere without hydrodynamic escape. Journal of Geophysical Research: Space Physics, 2014, 119, 4957-4972.	2.4	38
77	On the generation/decay of the storm-enhanced density plumes: Role of the convection flow and field-aligned ion flow. Journal of Geophysical Research: Space Physics, 2014, 119, 8543-8559.	2.4	74
78	Daytime altitude variations of the equatorial, topside magnetic field-aligned ion transport at solar minimum. Journal of Geophysical Research: Space Physics, 2013, 118, 3568-3575.	2.4	6
79	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
80	Data assimilation and driver estimation for the Global Ionosphere-Thermosphere Model using the Ensemble Adjustment Kalman Filter. Journal of Atmospheric and Solar-Terrestrial Physics, 2013, 104, 126-136.	1.6	44
81	The NASA EV-2 Cyclone Global Navigation Satellite System (CYGNSS) mission. , 2013, , .		30
82	The CYGNSS flight segment; A major NASA science mission enabled by micro-satellite technology. , 2013, , .		13
83	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
84	Retrospective Cost Optimization for Adaptive State Estimation, Input Estimation, and Model Refinement. Procedia Computer Science, 2013, 18, 1919-1928.	2.0	5
85	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
86	Electrodynamics of the high-latitude trough: Its relationship with convection flows and field-aligned currents. Journal of Geophysical Research: Space Physics, 2013, 118, 2565-2572.	2.4	21
87	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
88	Multi-instrument observations of SED during 24-25 October 2011 storm: Implications for SED formation processes. Journal of Geophysical Research: Space Physics, 2013, 118, 7798-7809.	2.4	53
89	Community-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
90	On the performance of global magnetohydrodynamic models in the Earth's magnetosphere. Space Weather, 2013, 11, 313-326.	3.7	28

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91	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> , 2012, 2012, 1-10.	1.1	39
92	Retrospective-Cost-Based Adaptive State Estimation and Input Reconstruction for the Global Ionosphere-Thermosphere Model. , 2012, , .		3
93	Retrospective-Cost Subsystem Identification for the Global Ionosphere-Thermosphere Model. , 2012, , .		0
94	Magnetospheric configuration and dynamics of Saturn's magnetosphere: A global MHD simulation. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	103
95	Dynamical effects of internal gravity waves in the equinoctial thermosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 90-91, 104-116.	1.6	49
96	The CYGNSS nanosatellite constellation hurricane mission. , 2012, , .		126
97	Analyzing the hemispheric asymmetry in the thermospheric density response to geomagnetic storms. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	28
98	Solar wind density controlling penetration electric field at the equatorial ionosphere during a saturation of cross polar cap potential. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	17
99	CubeSats to NanoSats; Bridging the gap between educational tools and science workhorses. , 2012, , .		9
100	A global model: Empirical orthogonal function analysis of total electron content 1999â€“2009 data. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	43
101	CEDAR Electrodynamic 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> , 2012, 10, .	3.7	65
102	Utilizing the polar cap index to explore strong driving of polar cap dynamics. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	7
103	Importance of capturing heliospheric variability for studies of thermospheric vertical winds. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	16
104	Comparison of Joule heating associated with high-speed solar wind between different models and observations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 75-76, 5-14.	1.6	14
105	Quiet-time low latitude ionospheric electrodynamic in the non-hydrostatic Global Ionosphere-Thermosphere Model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 80, 161-172.	1.6	22
106	Joule heating associated with auroral electrojets during magnetospheric substorms. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	7
107	Understanding the response of the ionosphere-magnetosphere system to sudden solar wind density increases. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	27
108	Testing the necessity of transient spikes in the storm time ring current drivers. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	5

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109	Impact of the altitudinal Joule heating distribution on the thermosphere. Journal of Geophysical Research, 2011, 116, .	3.3	63
110	Energy input into the upper atmosphere associated with high-speed solar wind streams in 2005. Journal of Geophysical Research, 2011, 116, .	3.3	24
111	Reducing numerical diffusion in magnetospheric simulations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	10
112	Simulating the one-dimensional structure of Titan's upper atmosphere: 3. Mechanisms determining methane escape. Journal of Geophysical Research, 2011, 116, .	3.3	24
113	Geospace Environment Modeling 2008â€“2009 Challenge: Ground magnetic field perturbations. Space Weather, 2011, 9, .	3.7	71
114	Geospace Environment Modeling 2008â€“2009 Challenge: Geosynchronous magnetic field. Space Weather, 2011, 9, .	3.7	30
115	Role of variability in determining the vertical wind speeds and structure. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	11
116	Statistical study of the effect of ULF fluctuations in the IMF on the cross polar cap potential drop for northward IMF. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	7
117	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
118	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
119	Adaptive State Estimation for Nonminimum-Phase Systems with Uncertain Harmonic Inputs. , 2011, , .		6
120	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
121	Retrospectiveâ€“costâ€“based adaptive model refinement for the ionosphere and thermosphere. Statistical Analysis and Data Mining, 2011, 4, 446-458.	2.8	24
122	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
123	Retrospective-cost-based model refinement for system emulation and subsystem identification. , 2011, , .		13
124	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
125	Modeling ionospheric <l>fo</l> by using empirical orthogonal function analysis. Annales Geophysicae, 2011, 29, 1501-1515.	1.6	43
126	Comparative study of a substorm event by satellite observation and model simulation. Science Bulletin, 2010, 55, 857-864.	1.7	3

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127	Numerical considerations in simulating the global magnetosphere. <i>Annales Geophysicae</i> , 2010, 28, 1589-1614.	1.6	42
128	The effect of smoothed solar wind inputs on global modeling results. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	20
129	Systematic evaluation of ground and geostationary magnetic field predictions generated by global magnetohydrodynamic models. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	30
130	Exploring sources of magnetospheric plasma using multispecies MHD. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	41
131	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> , 2010, 115, .	3.3	42
132	Dipole tilt effects on the magnetosphere-ionosphere convection system during interplanetary magnetic field $\langle i \rangle B \langle /i \rangle \langle sub \rangle \langle i \rangle Y \langle /i \rangle \langle /sub \rangle$ -dominated periods: MHD modeling. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	6
133	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> , 2010, 115, .	3.3	19
134	Validation of SWMF magnetic field and plasma. <i>Space Weather</i> , 2010, 8, n/a-n/a.	3.7	59
135	Long-lasting goodshielding at the equatorial ionosphere. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	12
136	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> , 2010, 115, .	3.3	34
137	Simulating the one-dimensional structure of Titan's upper atmosphere: 2. Alternative scenarios for methane escape. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	27
138	Plasma convection jets near the poleward boundary of the nightside auroral oval and their relation to Pedersen conductivity gradients. <i>Annales Geophysicae</i> , 2010, 28, 969-976.	1.6	12
139	Autonomous low-power magnetic data collection platform to enable remote high latitude array deployment. <i>Review of Scientific Instruments</i> , 2009, 80, 044501.	1.3	11
140	A nonlinear observer for semidetactable chemical reactions with application to kinetic-rate-constant estimation. , 2009, , .		1
141	Quantifying the effect of thermospheric parameterization in a global model. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2009, 71, 2017-2026.	1.6	15
142	Modeling the ionospheric response to the 28 October 2003 solar flare due to coupling with the thermosphere. <i>Radio Science</i> , 2009, 44, .	1.6	15
143	Cavities of weak magnetic field strength in the wake of FTEs: Results from global magnetospheric MHD simulations. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	11
144	Response of the magnetosphere-ionosphere system to a sudden southward turning of interplanetary magnetic field. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	34

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145	PENGUIn multi-instrument observations of dayside high-latitude injections during the 23 March 2007 substorm. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	8
146	Self-consistent model of magnetospheric electric field, ring current, plasmasphere, and electromagnetic ion cyclotron waves: Initial results. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	23
147	A statistical study of BRIs (SMCs), isolated substorms, and individual sawtooth injections. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	39
148	Comparative Study of Subauroral Polarization Streams with DMSP Observation and RAM Simulation. <i>Chinese Journal of Geophysics</i> , 2009, 52, 531-540.	0.2	3
149	The response of the magnetosphere-ionosphere system to a sudden dynamic pressure enhancement under southward IMF conditions. <i>Annales Geophysicae</i> , 2009, 27, 4391-4407.	1.6	25
150	Plasma Flow and Related Phenomena in Planetary Aeronomy. <i>Space Science Reviews</i> , 2008, 139, 311-353.	8.1	30
151	Neutral Upper Atmosphere and Ionosphere Modeling. <i>Space Science Reviews</i> , 2008, 139, 107-141.	8.1	85
152	Modeling the thermospheric response to solar flares. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	54
153	Assessment of the non-hydrostatic effect on the upper atmosphere using a general circulation model (GCM). <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	81
154	Global model comparison with Millstone Hill during September 2005. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	13
155	Validation of the space weather modeling framework using ground-based magnetometers. <i>Space Weather</i> , 2008, 6, .	3.7	59
156	Validation of the Space Weather Modeling Framework using observations from CHAMP and DMSP. <i>Space Weather</i> , 2008, 6, .	3.7	29
157	Cholesky-based reduced-rank square-root Kalman filtering. , 2008, , .		8
158	Saturation of the polar cap potential: Inference from Alfvén wing arguments. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	89
159	Effect of the altitudinal variation of the gravitational acceleration on the thermosphere simulation. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	17
160	Statistical study of the subauroral polarization stream: Its dependence on the cross-polar cap potential and subauroral conductance. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	50
161	Temporal evolution of the transpolar potential after a sharp enhancement in solar wind dynamic pressure. <i>Geophysical Research Letters</i> , 2008, 35, .	4.0	20
162	Substorm onset dynamics in the magnetotail as derived from joint TC-1 and Cluster data analysis. <i>Earth, Planets and Space</i> , 2008, 60, 613-621.	2.5	2

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163	Data assimilation for magnetohydrodynamics with a zero-divergence constraint on the magnetic field. , 2008, , .		2
164	Reduced-rank unscented Kalman filtering using Cholesky-based decomposition. International Journal of Control, 2008, 81, 1779-1792.	1.9	5
165	Recursive estimation of terrestrial magnetic and electric potentials. , 2008, , .		0
166	Reduced-rank unscented Kalman filtering using Cholesky-based decomposition. , 2008, , .		1
167	Magnetic-field estimation using measurements from a floating buoy. , 2008, , .		0
168	Localized data assimilation in the ionosphere-thermosphere using a sampled-data unscented Kalman filter. , 2008, , .		3
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