

Ludger Scherliess

List of Publications by Citations

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53
papers

3,184
citations

23
h-index

53
g-index

53
ext. papers

3,486
ext. citations

2.6
avg, IF

5.01
L-index

#	Paper	IF	Citations
53	Radar and satellite global equatorial F region vertical drift model. <i>Journal of Geophysical Research</i> , 1999 , 104, 6829-6842		466
52	Effects of the vertical plasma drift velocity on the generation and evolution of equatorial spread F. <i>Journal of Geophysical Research</i> , 1999 , 104, 19859-19869		465
51	Empirical models of storm time equatorial zonal electric fields. <i>Journal of Geophysical Research</i> , 1997 , 102, 24047-24056		278
50	Storm time dependence of equatorial disturbance dynamo zonal electric fields. <i>Journal of Geophysical Research</i> , 1997 , 102, 24037-24046		274
49	Global Assimilation of Ionospheric Measurements (GAIM). <i>Radio Science</i> , 2004 , 39, n/a-n/a	1.4	251
48	Time dependent response of equatorial ionospheric electric fields to magnetospheric disturbances. <i>Geophysical Research Letters</i> , 1995 , 22, 851-854	4.9	236
47	Longitudinal variability of low-latitude total electron content: Tidal influences. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		130
46	Development of a physics-based reduced state Kalman filter for the ionosphere. <i>Radio Science</i> , 2004 , 39, n/a-n/a	1.4	105
45	Utah State University Global Assimilation of Ionospheric Measurements Gauss-Markov Kalman filter model of the ionosphere: Model description and validation. <i>Journal of Geophysical Research</i> , 2006 , 111,		89
44	CEDAR Electroynamics Thermosphere Ionosphere (ETI) Challenge for systematic assessment of ionosphere/thermosphere models: NmF2, hmF2, and vertical drift using ground-based observations. <i>Space Weather</i> , 2011 , 9, n/a-n/a	3.7	57
43	On the variability of equatorial F-region vertical plasma drifts. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2001 , 63, 893-897	2	54
42	Ionospheric dynamics and drivers obtained from a physics-based data assimilation model. <i>Radio Science</i> , 2009 , 44, n/a-n/a	1.4	53
41	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> , 2012 , 10, n/a-n/a	3.7	52
40	Analysis of TEC data from the TOPEX/Poseidon mission. <i>Journal of Geophysical Research</i> , 2004 , 109,		52
39	Mid- and low-latitude prompt-penetration ionospheric zonal plasma drifts. <i>Geophysical Research Letters</i> , 1998 , 25, 3071-3074	4.9	48
38	Ionospheric Weather Forecasting on the Horizon. <i>Space Weather</i> , 2005 , 3, n/a-n/a	3.7	37
37	The Utah State University Gauss-Markov Kalman filter of the ionosphere: The effect of slant TEC and electron density profile data on model fidelity. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2006 , 68, 947-958	2	36

36	Duration of an ionospheric data assimilation initialization of a coupled thermosphere-ionosphere model. <i>Space Weather</i> , 2007 , 5, n/a-n/a	3.7	29
35	Recent approaches to modeling ionospheric weather. <i>Advances in Space Research</i> , 2003 , 31, 819-828	2.4	29
34	On the sensitivity of total electron content (TEC) to upper atmospheric/ionospheric parameters. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2005 , 67, 1040-1052	2	25
33	Incoherent scatter radar, ionosonde, and satellite measurements of equatorial F region vertical plasma drifts in the evening sector. <i>Geophysical Research Letters</i> , 1996 , 23, 1733-1736	4.9	25
32	Driving the TING model with GAIM electron densities: Ionospheric effects on the thermosphere. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		24
31	Satellite studies of mid- and low-latitude ionospheric disturbance zonal plasma drifts. <i>Geophysical Research Letters</i> , 1998 , 25, 1503-1506	4.9	24
30	Comparing daytime, equatorial E and F layer drift velocities and TOPEX/TEC observations associated with the 4-cell, non-migrating tidal structure. <i>Annales Geophysicae</i> , 2009 , 27, 2861-2867	2	22
29	Spatial correlations of day-to-day ionospheric total electron content variability obtained from ground-based GPS. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a		21
28	Climatology of plasmaspheric total electron content obtained from Jason 1 satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1611-1623	2.6	20
27	Comparison of IRI-2001 with TOPEX TEC measurements. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2005 , 67, 365-380	2	20
26	Ensemble Modeling with Data Assimilation Models: A New Strategy for Space Weather Specifications, Forecasts, and Science. <i>Space Weather</i> , 2014 , 12, 123-126	3.7	19
25	Global Assimilation of Ionospheric Measurements-Gauss Markov model: Improved specifications with multiple data types. <i>Space Weather</i> , 2014 , 12, 675-688	3.7	19
24	Estimation of the high-latitude topside electron heat flux using DMSP plasma density measurements. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007 , 69, 1029-1048	2	19
23	Plasmasphere and upper ionosphere contributions and corrections during the assimilation of GPS slant TEC. <i>Radio Science</i> , 2009 , 44, n/a-n/a	1.4	17
22	Assessing models for ionospheric weather specifications over Australia during the 2004 Climate and Weather of the Sun-Earth-System (CAWSES) campaign. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		16
21	Validation of Ionospheric Specifications During Geomagnetic Storms: TEC and foF2 During the 2013 March Storm Event. <i>Space Weather</i> , 2018 , 16, 1686-1701	3.7	16
20	Problems associated with uncertain parameters and missing physics for long-term ionosphere-thermosphere forecasting. <i>Radio Science</i> , 2012 , 47,	1.4	15
19	Ionospheric Specification and Forecast Modeling. <i>Journal of Spacecraft and Rockets</i> , 2002 , 39, 314-324	1.5	15

18	Validation study of the Ionosphere Forecast Model using the TOPEX total electron content measurements. <i>Radio Science</i> , 2006 , 41,	1.4	14
17	Comparison of satellite ion drift velocities with AMIE deduced convection patterns. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2005 , 67, 1463-1479	2	14
16	Latitudinal structure of thermospheric composition perturbations. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 1997 , 59, 711-724	2	13
15	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	11
14	Equatorial Disturbance Dynamo Vertical Plasma Drifts Over Jicamarca: Bimonthly and Solar Cycle Dependence. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 4833-4841	2.6	10
13	Evaluation of statistical convection patterns for real-time ionospheric specifications and forecasts. <i>Journal of Geophysical Research</i> , 2003 , 108,		10
12	Extreme longitudinal variability of plasma structuring in the equatorial ionosphere on a magnetically quiet equinoctial day. <i>Radio Science</i> , 2006 , 41, n/a-n/a	1.4	8
11	On the Balance Between Plasma and Magnetic Pressure Across Equatorial Plasma Depletions. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5936-5944	2.6	7
10	Magnetic meridional winds in the thermosphere obtained from Global Assimilation of Ionospheric Measurements (GAIM) model. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 8025-8044	2.6	7
9	Importance of data assimilation technique in defining the model drivers for the space weather specification of the high-latitude ionosphere. <i>Radio Science</i> , 2012 , 47,	1.4	7
8	Modeling the Midlatitude Ionosphere Storm-Enhanced Density Distribution With a Data Assimilation Model. <i>Space Weather</i> , 2018 , 16, 1539-1548	3.7	7
7	Methodology of evaluating the science benefit of various satellite/sensor constellation orbital parameters to an assimilative data forecast model. <i>Radio Science</i> , 2015 , 50, 318-326	1.4	5
6	The International Community Coordinated Modeling Center Space Weather Modeling Capabilities Assessment: Overview of Ionosphere/Thermosphere Activities. <i>Space Weather</i> , 2019 , 17, 527-538	3.7	4
5	Neutral wind and plasma drift effects on low and middle latitude total electron content. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		4
4	Seasonal and magnetic activity variations of ionospheric electric fields above the southern mid-latitude station, Bundoora, Australia. <i>Annales Geophysicae</i> , 2001 , 19, 521-532	2	4
3	Terminator field-aligned currents: A new finding from the Ionospheric Dynamics and Electrodynamics Data Assimilation Model. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 4752-4757 ¹	2.6	4
2	Electric field measurements at a southern mid-latitude station obtained using an HF digital ionosonde. <i>Advances in Space Research</i> , 2001 , 27, 1253-1258	2.4	0
1	Challenges in Specifying and Predicting Space Weather. <i>Space Weather</i> , 2021 , 19, e2019SW002404	3.7	

