

R W Schunk

List of Publications by Year in descending order

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54
papers

3,132
citations

218677

26
h-index

197818

49
g-index

56
all docs

56
docs citations

56
times ranked

1968
citing authors

#	ARTICLE	IF	CITATIONS
1	Challenges in Specifying and Predicting Space Weather. <i>Space Weather</i> , 2021, 19, e2019SW002404.	3.7	4
2	A Semikinetic Model of Plasmasphere Refilling Following Geomagnetic Storms and Comparison With Hydrodynamic Results. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028016.	2.4	1
3	Hemispherical Shifted Symmetry in Polar Cap Patch Occurrence: A Survey of GPS TEC Maps From 2015–2018. <i>Geophysical Research Letters</i> , 2019, 46, 10726-10734.	4.0	9
4	Modeling the Midlatitude Ionosphere Storm-Enhanced Density Distribution With a Data Assimilation Model. <i>Space Weather</i> , 2018, 16, 1539-1548.	3.7	13
5	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	22
6	Polar Topside Ionosphere During Geomagnetic Storms: Comparison of ISIS-H With TDIM. <i>Radio Science</i> , 2018, 53, 906-920.	1.6	1
7	The magnetic storms of 3–4 August 2010 and 5–6 August 2011: 1. Ground- and space-based observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3487-3499.	2.4	9
8	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
9	Space weather forecasting with a Multimodel Ensemble Prediction System (MEPS). <i>Radio Science</i> , 2016, 51, 1157-1165.	1.6	26
10	Polar cap patches and the tongue of ionization: A survey of GPS TEC maps from 2009 to 2015. <i>Geophysical Research Letters</i> , 2016, 43, 2422-2428.	4.0	26
11	Global real-time dose measurements using the Automated Radiation Measurements for Aerospace Safety (ARMAS) system. <i>Space Weather</i> , 2016, 14, 1053-1080.	3.7	27
12	Mechanisms underlying the prereversal enhancement of the vertical plasma drift in the low-latitude ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4950-4970.	2.4	78
13	Global Assimilation of Ionospheric Measurements-Gauss Markov model: Improved specifications with multiple data types. <i>Space Weather</i> , 2014, 12, 675-688.	3.7	25
14	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	26
15	Problems associated with uncertain parameters and missing physics for long-term ionosphere-thermosphere forecasting. <i>Radio Science</i> , 2012, 47, .	1.6	17
16	CEDAR Electrodynamics 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
17	CEDAR Electrodynamics 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, .	3.7	71
18	Ionosphere Data Assimilation: Problems Associated with Missing Physics. , 2011, , 437-442.		7

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19	The effect of downward electron heat flow and electron cooling processes in the high-latitude ionosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2011, 73, 2399-2409.	1.6	12
20	Supersonic neutral winds and neutral streams in the thermosphere-ionosphere-plasmasphere system. <i>Radio Science</i> , 2009, 44, .	1.6	1
21	Storm time density enhancements in the middle-latitude dayside ionosphere. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	106
22	Longitudinal variability of low-latitude total electron content: Tidal influences. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	147
23	Driving the TING model with GAIM electron densities: Ionospheric effects on the thermosphere. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	27
24	Spatial correlations of day-to-day ionospheric total electron content variability obtained from ground-based GPS. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	30
25	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, .	3.3	19
26	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	36
27	Thermospheric response to ion heating in the dayside cusp. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2007, 69, 649-660.	1.6	39
28	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, .	3.3	111
29	Validation study of the Ionosphere Forecast Model using the TOPEX total electron content measurements. <i>Radio Science</i> , 2006, 41, .	1.6	15
30	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.	1.6	40
31	Effect of the theta aurora on the polar thermosphere. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2005, 67, 489-499.	1.6	5
32	Ionospheric Weather Forecasting on the Horizon. <i>Space Weather</i> , 2005, 3, n/a-n/a.	3.7	41
33	Development of a physics-based reduced state Kalman filter for the ionosphere. <i>Radio Science</i> , 2004, 39, n/a-n/a.	1.6	129
34	Effect of equatorial plasma bubbles on the thermosphere. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	13
35	Comparing fluid and particle-in-cell solutions for the polar wind. <i>Journal of Geophysical Research</i> , 1999, 104, 28535-28545.	3.3	7
36	Intercomparison of physical models and observations of the ionosphere. <i>Journal of Geophysical Research</i> , 1998, 103, 2179-2192.	3.3	70

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37	Comparison of macroscopic particle-in-cell and semikinetic models of the polar wind. Journal of Geophysical Research, 1998, 103, 29277-29287.	3.3	11
38	Global ionosphere-polar wind system during changing magnetic activity. Journal of Geophysical Research, 1997, 102, 11625-11651.	3.3	85
39	Effect of Sun-aligned arcs on the polar thermosphere. Journal of Geophysical Research, 1997, 102, 9729-9735.	3.3	11
40	Effect of polar cap patches on the thermosphere for different solar activity levels. Journal of Atmospheric and Solar-Terrestrial Physics, 1997, 59, 1823-1829.	1.6	18
41	Effect of polar cap patches on the polar thermosphere. Journal of Geophysical Research, 1995, 100, 19701.	3.3	24
42	Patches in the polar ionosphere: UT and seasonal dependence. Journal of Geophysical Research, 1994, 99, 14959.	3.3	91
43	Model study of multiple polar cap arcs: Occurrence and spacing. Geophysical Research Letters, 1994, 21, 649-652.	4.0	9
44	Modeling polar cap <i>F</i> -region patches using time varying convection. Geophysical Research Letters, 1993, 20, 1783-1786.	4.0	122
45	Observations and model comparisons of early-time expansion characteristics of a satellite-borne barium-lithium release at <i>F</i> -region altitudes. Geophysical Research Letters, 1993, 20, 2031-2034.	4.0	6
46	A three-dimensional time-dependent model of the polar wind. Journal of Geophysical Research, 1989, 94, 8973-8991.	3.3	91
47	A mathematical model of the middle and high latitude ionosphere. Pure and Applied Geophysics, 1988, 127, 255-303.	1.9	167
48	Multistream hydrodynamic modeling of interhemispheric plasma flow. Journal of Geophysical Research, 1988, 93, 14557-14565.	3.3	38
49	Theoretical study of the electron temperature in the high-latitude ionosphere for solar maximum and winter conditions. Journal of Geophysical Research, 1986, 91, 12041-12054.	3.3	93
50	Temporal features of the refilling of a plasmaspheric flux tube. Journal of Geophysical Research, 1986, 91, 13433-13454.	3.3	42
51	Effect of hot electrons on the polar wind. Journal of Geophysical Research, 1984, 89, 9771-9783.	3.3	88
52	Seasonal variations of the high-latitude <i>F</i> region for strong convection. Journal of Geophysical Research, 1982, 87, 187-198.	3.3	46
53	Plasma density features associated with strong convection in the winter high-latitude <i>F</i> region. Journal of Geophysical Research, 1981, 86, 6908-6916.	3.3	65
54	Atomic nitrogen and oxygen ions in the daytime high-latitude <i>F</i> region. Journal of Geophysical Research, 1980, 85, 1255-1272.	3.3	97