

John Emmert

List of Publications by Year in descending order

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61
papers

3,859
citations

136885

32
h-index

123376

61
g-index

62
all docs

62
docs citations

62
times ranked

2145
citing authors

#	ARTICLE	IF	CITATIONS
1	NRLMSIS 2.0: A Wholeâ€ˆAtmosphere Empirical Model of Temperature and Neutral Species Densities. Earth and Space Science, 2021, 8, e2020EA001321.	1.1	145
2	On the Effects of Mesospheric and Lower Thermospheric Oxygen Chemistry on the Thermosphere and Ionosphere Semiannual Oscillation. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028647.	0.8	6
3	A Globally Averaged Thermospheric Density Data Set Derived From Twoâ€ˆLine Orbital Element Sets and Special Perturbations State Vectors. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029455.	0.8	6
4	Comparison of ICON/MIGHTI and TIMED/TIDI Neutral Wind Measurements in the Lower Thermosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029904.	0.8	18
5	Improving Neutral Density Predictions Using Exospheric Temperatures Calculated on a Geodesic, Polyhedral Grid. Space Weather, 2020, 18, e2019SW002355.	1.3	18
6	Oscillations in Neutral Winds Observed by GOCE. Geophysical Research Letters, 2020, 47, e2020GL089339.	1.5	4
7	Coupling From the Middle Atmosphere to the Exobase: Dynamical Disturbance Effects on Light Chemical Species. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028331.	0.8	12
8	HLâ€ˆTWiM Empirical Model of Highâ€ˆLatitude Upper Thermospheric Winds. Journal of Geophysical Research: Space Physics, 2019, 124, 10592-10618.	0.8	13
9	How Might the Thermosphere and Ionosphere React to an Extreme Space Weather Event?. , 2018, , 513-539.		4
10	Origins of the Thermosphereâ€ˆIonosphere Semiannual Oscillation: Reformulating the â€ˆThermospheric Spoonâ€ˆMechanism. Journal of Geophysical Research: Space Physics, 2018, 123, 931-954.	0.8	33
11	Seasonal Dependence of Geomagnetic Activeâ€ˆTime Northern Highâ€ˆLatitude Upper Thermospheric Winds. Journal of Geophysical Research: Space Physics, 2018, 123, 739-754.	0.8	27
12	Shortâ€ˆTerm and Interannual Variations of Migrating Diurnal and Semidiurnal Tides in the Mesosphere and Lower Thermosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 7106-7123.	0.8	39
13	Correlations Between the Thermosphere's Semiannual Density Variations and Infrared Emissions Measured With the SABER Instrument. Journal of Geophysical Research: Space Physics, 2018, 123, 8850-8864.	0.8	11
14	Seasonal dependence of northern highâ€ˆlatitude upper thermospheric winds: A quiet time climatological study based on groundâ€ˆbased and spaceâ€ˆbased measurements. Journal of Geophysical Research: Space Physics, 2017, 122, 2619-2644.	0.8	30
15	Attribution of interminimum changes in global and hemispheric total electron content. Journal of Geophysical Research: Space Physics, 2017, 122, 2424-2439.	0.8	30
16	Middle atmosphere dynamical sources of the semiannual oscillation in the thermosphere and ionosphere. Geophysical Research Letters, 2017, 44, 12-21.	1.5	81
17	Linear forecasting of the $F_{10.7}$ proxy for solar activity. Space Weather, 2017, 15, 1039-1051.	1.3	15
18	Dayâ€ˆtoâ€ˆday variability in the thermosphere and its impact on plasmasphere refilling. Journal of Geophysical Research: Space Physics, 2016, 121, 6889-6900.	0.8	9

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19	Ionospheric total electron content: Spatial patterns of variability. Journal of Geophysical Research: Space Physics, 2016, 121, 10,367.	0.8	29
20	Traveling planetary-scale waves in the lower thermosphere: Effects on neutral density and composition during solar minimum conditions. Journal of Geophysical Research: Space Physics, 2016, 121, 1780-1801.	0.8	15
21	Evidence for stratospheric sudden warming effects on the upper thermosphere derived from satellite orbital decay data during 1967-2013. Geophysical Research Letters, 2015, 42, 6180-6188.	1.5	29
22	Introduction to special issue on "Long-term changes and trends in the stratosphere, mesosphere, thermosphere and ionosphere". Journal of Geophysical Research D: Atmospheres, 2015, 120, 11,401.	1.2	5
23	Altitude and solar activity dependence of 1967-2005 thermospheric density trends derived from orbital drag. Journal of Geophysical Research: Space Physics, 2015, 120, 2940-2950.	0.8	80
24	An update to the Horizontal Wind Model (HWM): The quiet time thermosphere. Earth and Space Science, 2015, 2, 301-319.	1.1	465
25	Remote Sensing of Earth's Limb by TIMED/GUVI: Retrieval of thermospheric composition and temperature. Earth and Space Science, 2015, 2, 1-37.	1.1	103
26	Attribution of interminima changes in the global thermosphere and ionosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 6657-6688.	0.8	46
27	Geospace variability during the 2008-2009 Whole Heliosphere Intervals. Journal of Geophysical Research: Space Physics, 2014, 119, 3755-3776.	0.8	6
28	Theoretical tools for studies of low-frequency thermospheric variability. Journal of Geophysical Research: Space Physics, 2013, 118, 5853-5873.	0.8	16
29	Observations of increasing carbon dioxide concentration in Earth's thermosphere. Nature Geoscience, 2012, 5, 868-871.	5.4	68
30	Linkages between the cold summer mesopause and thermospheric zonal mean circulation. Geophysical Research Letters, 2012, 39, .	1.5	21
31	Statistical uncertainty of 1967-2005 thermospheric density trends derived from orbital drag. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	15
32	Ionospheric total electron content: Global and hemispheric climatology. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	44
33	Introduction to special section on Long-term Changes and Trends in the Stratosphere, Mesosphere, Thermosphere, and Ionosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	1
34	A study of space shuttle plumes in the lower thermosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	15
35	Global and regional trends in ionospheric total electron content. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	54
36	Record-low thermospheric density during the 2008 solar minimum. Geophysical Research Letters, 2010, 37, .	1.5	186

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37	Anomalous low solar extreme-ultraviolet irradiance and thermospheric density during solar minimum. <i>Geophysical Research Letters</i> , 2010, 37, .	1.5	171
38	Climatology of globally averaged thermospheric mass density. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	85
39	A computationally compact representation of Magnetic-Apex and Quasi-Dipole coordinates with smooth base vectors. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	151
40	Initial ground-based thermospheric wind measurements using Doppler asymmetric spatial heterodyne spectroscopy (DASH). <i>Optics Express</i> , 2010, 18, 27416.	1.7	43
41	A long-term data set of globally averaged thermospheric total mass density. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	55
42	Quantitative forecasting of near-term solar activity and upper atmospheric density. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	22
43	Comment on "Oscillations of global mean TEC" by K. Hocke. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	3
44	Thermospheric global average density trends, 1967-2007, derived from orbits of 5000 near-Earth objects. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	125
45	Improved horizontal wind model HWM07 enables estimation of equatorial ionospheric electric fields from satellite magnetic measurements. <i>Geophysical Research Letters</i> , 2008, 35, .	1.5	19
46	DWM07 global empirical model of upper thermospheric storm-induced disturbance winds. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	114
47	An empirical model of the Earth's horizontal wind fields: HWM07. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	448
48	Emerging pattern of global change in the upper atmosphere and ionosphere. <i>Annales Geophysicae</i> , 2008, 26, 1255-1268.	0.6	103
49	Thermospheric densities derived from spacecraft orbits: Application to the Starshine satellites. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	29
50	Thermospheric density 2002-2004: TIMED/GUVI dayside limb observations and satellite drag. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	46
51	Climatologies of nighttime upper thermospheric winds measured by ground-based Fabry-Perot interferometers during geomagnetically quiet conditions: 2. High-latitude circulation and interplanetary magnetic field dependence. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	41
52	Climatologies of nighttime upper thermospheric winds measured by ground-based Fabry-Perot interferometers during geomagnetically quiet conditions: 1. Local time, latitudinal, seasonal, and solar cycle dependence. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	71
53	ATMOSPHERE: Global Change in the Upper Atmosphere. <i>Science</i> , 2006, 314, 1253-1254.	6.0	104
54	Thermospheric densities derived from spacecraft orbits: Accurate processing of two-line element sets. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	88

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55	Global change in the thermosphere: Compelling evidence of a secular decrease in density. Journal of Geophysical Research, 2004, 109, .	3.3	132
56	Average nighttime F region disturbance neutral winds measured by UARS WINDII: Initial results. Geophysical Research Letters, 2004, 31, .	1.5	47
57	Climatology and latitudinal gradients of quiet time thermospheric neutral winds over Millstone Hill from Fabry-Perot interferometer measurements. Journal of Geophysical Research, 2003, 108, .	3.3	47
58	Altitude dependence of middle and low-latitude daytime thermospheric disturbance winds measured by WINDII. Journal of Geophysical Research, 2002, 107, SIA 19-1-SIA 19-15.	3.3	57
59	Climatology and storm time dependence of nighttime thermospheric neutral winds over Millstone Hill. Journal of Geophysical Research, 2002, 107, SIA 3-1.	3.3	61
60	Climatology of middle- and low-latitude daytime F region disturbance neutral winds measured by Wind Imaging Interferometer (WINDII). Journal of Geophysical Research, 2001, 106, 24701-24712.	3.3	57
61	Average daytime F region disturbance neutral winds measured by UARS: Initial results. Geophysical Research Letters, 2000, 27, 1859-1862.	1.5	38