

W Kent Tobiska

List of Publications by Year in descending order

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73
papers

3,777
citations

201674

27
h-index

138484

58
g-index

88
all docs

88
docs citations

88
times ranked

2479
citing authors

#	ARTICLE	IF	CITATIONS
1	Machine-Learned HASDM Thermospheric Mass Density Model With Uncertainty Quantification. Space Weather, 2022, 20, .	3.7	18
2	Modeling the Dynamic Variability of Sub-Relativistic Outer Radiation Belt Electron Fluxes Using Machine Learning. Space Weather, 2022, 20, .	3.7	13
3	Supporting Evidence for a Galactic Ly α Background from Cassini UVIS Data. Astronomical Journal, 2022, 164, 46.	4.7	1
4	Radiation Data Portal: Integration of Radiation Measurements at the Aviation Altitudes and Solar-Terrestrial Environment Observations. Space Weather, 2021, 19, e2020SW002653.	3.7	2
5	A New Model for Ionospheric Total Electron Content: The Impact of Solar Flux Proxies and Indices. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028466.	2.4	8
6	The SET HASDM Density Database. Space Weather, 2021, 19, e2020SW002682.	3.7	24
7	A Method for Calculating Atmospheric Radiation Produced by Relativistic Electron Precipitation. Space Weather, 2021, 19, e2021SW002735.	3.7	7
8	Qualitative and Quantitative Assessment of the SET HASDM Database. Space Weather, 2021, 19, e2021SW002798.	3.7	14
9	The Current State and Future Directions of Modeling Thermosphere Density Enhancements During Extreme Magnetic Storms. Frontiers in Astronomy and Space Sciences, 2021, 8, .	2.8	9
10	Relativistic Electron Model in the Outer Radiation Belt Using a Neural Network Approach. Space Weather, 2021, 19, e2021SW002808.	3.7	27
11	Comparison of a Neutral Density Model With the SET HASDM Density Database. Space Weather, 2021, 19, e2021SW002888.	3.7	4
12	Improved Neutral Density Predictions Through Machine Learning Enabled Exospheric Temperature Model. Space Weather, 2021, 19, .	3.7	6
13	A Third Generation Field-Aligned Current Model. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027249.	2.4	7
14	Improving Neutral Density Predictions Using Exospheric Temperatures Calculated on a Geodesic, Polyhedral Grid. Space Weather, 2020, 18, e2019SW002355.	3.7	18
15	Beamline and Flight Comparisons of the ARMAS Flight Module With the Tissue Equivalent Proportional Counter for Improving Atmospheric Radiation Monitoring Accuracy. Space Weather, 2020, 18, e2020SW002599.	3.7	2
16	Benchmarking Forecasting Models for Space Weather Drivers. Space Weather, 2020, 18, e2020SW002496.	3.7	23
17	Space Radiation and Plasma Effects on Satellites and Aviation: Quantities and Metrics for Tracking Performance of Space Weather Environment Models. Space Weather, 2019, 17, 1384-1403.	3.7	32
18	Characterizing the Variation in Atmospheric Radiation at Aviation Altitudes. , 2018, , 453-471.		3

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19	Model Evaluation Guidelines for Geomagnetic Index Predictions. <i>Space Weather</i> , 2018, 16, 2079-2102.	3.7	62
20	Analytical Representations for Characterizing the Global Aviation Radiation Environment Based on Model and Measurement Databases. <i>Space Weather</i> , 2018, 16, 1523-1538.	3.7	13
21	Forecasting the Arrival Time of Coronal Mass Ejections: Analysis of the CCMC CME Scoreboard. <i>Space Weather</i> , 2018, 16, 1245-1260.	3.7	94
22	Field-aligned current response to solar indices. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5798-5815.	2.4	10
23	Cosmic radiation dose measurements from the RaD-X flight campaign. <i>Space Weather</i> , 2016, 14, 874-898.	3.7	30
24	Atmospheric radiation modeling of galactic cosmic rays using LRO/CRaTER and the EMMREM model with comparisons to balloon and airline based measurements. <i>Space Weather</i> , 2016, 14, 659-667.	3.7	5
25	Ground-based evaluation of dosimeters for NASA high-altitude balloon flight. <i>Space Weather</i> , 2016, 14, 1011-1025.	3.7	13
26	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
27	Advances in Atmospheric Radiation Measurements and Modeling Needed to Improve Air Safety. <i>Space Weather</i> , 2015, 13, 202-210.	3.7	30
28	High correlations between temperature and nitric oxide in the thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5998-6009.	2.4	21
29	Reply to comment by Rainer Facius et al. on "U.S. Government shutdown degrades aviation radiation monitoring during solar radiation storm". <i>Space Weather</i> , 2014, 12, 320-321.	3.7	3
30	U.S. Government shutdown degrades aviation radiation monitoring during solar radiation storm. <i>Space Weather</i> , 2014, 12, 41-45.	3.7	5
31	The Anemomilos prediction methodology for Dst. <i>Space Weather</i> , 2013, 11, 490-508.	3.7	23
32	Solar EUV and XUV energy input to thermosphere on solar rotation time scales derived from photoelectron observations. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	24
33	Extreme Ultraviolet Variability Experiment (EVE) on the Solar Dynamics Observatory (SDO): Overview of Science Objectives, Instrument Design, Data Products, and Model Developments. <i>Solar Physics</i> , 2012, 275, 115-143.	2.5	375
34	Tissue Equivalent Proportional Counter Microdosimetry Measurements Aboard High-Altitude and Commercial Aircraft. , 2012, , .		6
35	Predicting global average thermospheric temperature changes resulting from auroral heating. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	29
36	NEW SOLAR EXTREME-ULTRAVIOLET IRRADIANCE OBSERVATIONS DURING FLARES. <i>Astrophysical Journal</i> , 2011, 739, 59.	4.5	144

#	ARTICLE	IF	CITATIONS
37	Extreme Ultraviolet Variability Experiment (EVE) on the Solar Dynamics Observatory (SDO): Overview of Science Objectives, Instrument Design, Data Products, and Model Developments. , 2010, , 115-143.		13
38	Operational Space Weather Entering a New Era. Space Weather, 2009, 7, n/a-n/a.	3.7	8
39	Development of Nowcast of Atmospheric Ionizing Radiation for Aviation Safety (NAIRAS) Model. , 2009, , .		12
40	The development of new solar indices for use in thermospheric density modeling. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 803-819.	1.6	90
41	The thermospheric semiannual density response to solar EUV heating. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 1482-1496.	1.6	37
42	The JB2006 empirical thermospheric density model. Journal of Atmospheric and Solar-Terrestrial Physics, 2008, 70, 774-793.	1.6	106
43	Mitigating Orbit Planning, Satellite Operations, and Communication Surprises from Adverse Space Weather. , 2008, , .		0
44	A New Empirical Thermospheric Density Model JB2008 Using New Solar and Geomagnetic Indices. , 2008, , .		236
45	International Standards Will Enhance Space Weather Management. Space Weather, 2008, 6, n/a-n/a.	3.7	6
46	SOLAR2000 v2.30 and SOLARFLARE v1.01: New Capabilities for Space System Operations. , 2007, , .		7
47	The development of new solar indices for use in thermospheric density modeling. , 2006, , .		9
48	Analysis of the orbital decay of spherical satellites using different solar flux proxies and atmospheric density models. Advances in Space Research, 2006, 37, 392-400.	2.6	27
49	New developments in SOLAR2000 for space research and operations. Advances in Space Research, 2006, 37, 347-358.	2.6	61
50	High accuracy satellite drag model (HASDM). Advances in Space Research, 2005, 36, 2497-2505.	2.6	205
51	Climatology of extreme upper atmospheric heating events. Advances in Space Research, 2005, 36, 2506-2510.	2.6	27
52	Solar EUV Experiment (SEE): Mission overview and first results. Journal of Geophysical Research, 2005, 110, .	3.3	448
53	Systems-Level Space Environment Specification for Satellite and Ground System Operations. , 2005, , .		2
54	Direct and Indirect Thermospheric Heating Sources for Solar Cycles 21â€“23. Solar Physics, 2004, 224, 495-505.	2.5	143

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55	SOLAR2000 irradiances for climate change research, aeronomy and space system engineering. <i>Advances in Space Research</i> , 2004, 34, 1736-1746.	2.6	76
56	Solar extreme ultraviolet and x-ray irradiance variations. <i>Geophysical Monograph Series</i> , 2004, , 127-140.	0.1	29
57	Forecasting of Space Environment Parameters for Satellite and Ground System Operations. , 2003, , .		5
58	Forecast E for Improved Low-Earth-Orbit Satellite Operations. <i>Journal of Spacecraft and Rockets</i> , 2003, 40, 405-410.	1.9	9
59	E10.7 Use for Global Atmospheric Density Forecasting in 2001. , 2002, , .		4
60	The Mg II index: A proxy for solar EUV. <i>Geophysical Research Letters</i> , 2001, 28, 1343-1346.	4.0	152
61	Validating the solar EUV Proxy, E10.7. <i>Journal of Geophysical Research</i> , 2001, 106, 29969-29978.	3.3	56
62	Improved solar Lyman $\hat{\pm}$ irradiance modeling from 1947 through 1999 based on UARS observations. <i>Journal of Geophysical Research</i> , 2000, 105, 27195-27215.	3.3	318
63	Euv97: Improvements to Euv Irradiance Modeling in the Soft X-Rays and FUV. <i>Solar Physics</i> , 1998, 177, 147-159.	2.5	86
64	Solar hydrogen Lyman- $\hat{\pm}$ variation during solar cycles 21 and 22. <i>Geophysical Research Letters</i> , 1997, 24, 1123-1126.	4.0	39
65	Latitude variations in interplanetary Lyman- $\hat{\pm}$ data from the Galileo EUVS modeled with solar He 1083 nm images. <i>Geophysical Research Letters</i> , 1996, 23, 1893-1896.	4.0	30
66	Direct observations of the comet Shoemaker-Levy 9 fragment G impact by Galileo UVS. <i>Geophysical Research Letters</i> , 1995, 22, 1565-1568.	4.0	16
67	Thermosphere-Ionsphere-Mesosphere Energetics and Dynamics (TIMED) Solar EUV Experiment. , 1994, 2266, 467.		9
68	Solar EUV Irradiance Variations. <i>Journal of Geomagnetism and Geoelectricity</i> , 1991, 43, 823-833.	0.9	6
69	Periodicities of solar irradiance and solar activity indices, I. <i>Solar Physics</i> , 1990, 129, 165-189.	2.5	168
70	Comparison of 10.7 cm radio flux with SME solar Lyman alpha flux. <i>Geophysical Research Letters</i> , 1990, 17, 571-574.	4.0	79
71	Intermediate-term variations of chromospheric and coronal solar flux during high solar cycle 21 activity. <i>Geophysical Research Letters</i> , 1989, 16, 779-782.	4.0	14
72	Solar-terrestrial coupling: Low-latitude thermospheric nitric oxide. <i>Geophysical Research Letters</i> , 1988, 15, 92-94.	4.0	99

#	ARTICLE	IF	CITATIONS
73	A framework to estimate local atmospheric densities with reduced drag coefficient biases. Space Weather, 0, , .	3.7	0