

Robert S Weigel

List of Publications by Year in descending order

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Version: 2024-02-01

32
papers

759
citations

623574

14
h-index

526166

27
g-index

38
all docs

38
docs citations

38
times ranked

974
citing authors

#	ARTICLE	IF	CITATIONS
1	Geomagnetically induced currents: Science, engineering, and applications readiness. <i>Space Weather</i> , 2017, 15, 828-856.	1.3	149
2	Modeling seasonal variations of auroral particle precipitation in a global-scale magnetosphere-ionosphere simulation. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	85
3	Geospace environment modeling 2008-2009 challenge: <i>D</i> _{st} index. <i>Space Weather</i> , 2013, 11, 187-205.	1.3	69
4	Model Evaluation Guidelines for Geomagnetic Index Predictions. <i>Space Weather</i> , 2018, 16, 2079-2102.	1.3	62
5	Adaptive linear prediction of radiation belt electrons using the Kalman filter. <i>Space Weather</i> , 2004, 2, n/a-n/a.	1.3	49
6	Convergent cross-mapping and pairwise asymmetric inference. <i>Physical Review E</i> , 2014, 90, 062903.	0.8	42
7	Solar wind density influence on geomagnetic storm intensity. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	31
8	Community-wide validation of geospace model local K-index predictions to support model transition to operations. <i>Space Weather</i> , 2016, 14, 469-480.	1.3	27
9	Recommendations for Next-Generation Ground Magnetic Perturbation Validation. <i>Space Weather</i> , 2018, 16, 1912-1920.	1.3	27
10	A comparison of methods for estimating the geoelectric field. <i>Space Weather</i> , 2017, 15, 430-440.	1.3	24
11	Probability distribution invariance of 1-minute auroral-zone geomagnetic field fluctuations. <i>Geophysical Research Letters</i> , 2003, 30, n/a-n/a.	1.5	22
12	Autoplot: a browser for scientific data on the web. <i>Earth Science Informatics</i> , 2010, 3, 41-49.	1.6	20
13	Decision theory and the analysis of rare event space weather forecasts. <i>Space Weather</i> , 2006, 4, n/a-n/a.	1.3	17
14	Analysis and visualization of space science model output and data with CISM-DX. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	16
15	Effects of plasma drag on low Earth orbiting satellites due to solar forcing induced perturbations and heating. <i>Advances in Space Research</i> , 2015, 56, 47-56.	1.2	15
16	Precursor analysis and prediction of large-amplitude relativistic electron fluxes. <i>Space Weather</i> , 2003, 1, n/a-n/a.	1.3	13
17	Modes of energy transfer from the solar wind to the inner magnetosphere. <i>Physics of Plasmas</i> , 2003, 10, 463-473.	0.7	12
18	Intracalibration of particle detectors on a three-axis stabilized geostationary platform. <i>Space Weather</i> , 2012, 10, .	1.3	12

#	ARTICLE	IF	CITATIONS
19	HAPI: An API Standard for Accessing Heliophysics Time Series Data. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	0.8	10
20	Solar wind time history contribution to the day-of-year variation in geomagnetic activity. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	9
21	TSDS: high-performance merge, subset, and filter software for time series-like data. <i>Earth Science Informatics</i> , 2010, 3, 29-40.	1.6	8
22	Recreating the Horizontal Magnetic Field at Colaba During the Carrington Event With Geospace Simulations. <i>Space Weather</i> , 2021, 19, e2020SW002585.	1.3	8
23	Predictability of Large Geomagnetic Disturbances Based on Solar Wind Conditions. <i>IEEE Transactions on Plasma Science</i> , 2004, 32, 1506-1510.	0.6	7
24	An Evaluation of the Frequency Independence Assumption of Power System Coefficients Used in Geomagnetically Induced Current Estimates. <i>Space Weather</i> , 2019, 17, 1674-1688.	1.3	6
25	The LASCO Coronal Brightness Index. <i>Solar Physics</i> , 2020, 295, 1.	1.0	6
26	Branch prediction and speculative execution: A magnetospheric data assimilation scheme for space weather forecasting. <i>Space Weather</i> , 2007, 5, .	1.3	4
27	A Global Survey of EUV Coronal Power Spectra. <i>Solar Physics</i> , 2019, 294, 1.	1.0	3
28	VxOware: software for managing virtual observatory metadata. <i>Earth Science Informatics</i> , 2010, 3, 19-28.	1.6	1
29	Misapplication of a Statistical Test: Comment on "Lies, Damned Lies, and Statistics (in Geology)". <i>Eos</i> , 2011, 92, 65-65.	0.1	1
30	Solar wind, F 10.7 , and geomagnetic activity relationship to the equatorial plasma mass density at geosynchronous orbit. <i>Space Weather</i> , 2016, 14, 1095-1106.	1.3	1
31	nnde: A Python package for solving differential equations using neural networks. <i>Journal of Open Source Software</i> , 2022, 7, 3465.	2.0	1
32	Nonparametric causal inference for bivariate time series. <i>Physical Review E</i> , 2016, 93, 022207.	0.8	0