

Rob J Redmon

List of Publications by Year in descending order

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Version: 2024-02-01

55
papers

1,095
citations

394286

19
h-index

454834

30
g-index

58
all docs

58
docs citations

58
times ranked

1432
citing authors

#	ARTICLE	IF	CITATIONS
1	Dynamics of the high-latitude ionospheric irregularities during the 17 March 2015 St. Patrick's Day storm: Ground-based GPS measurements. <i>Space Weather</i> , 2015, 13, 585-597.	1.3	96
2	September 2017's Geoeffective Space Weather and Impacts to Caribbean Radio Communications During Hurricane Response. <i>Space Weather</i> , 2018, 16, 1190-1201.	1.3	68
3	New DMSP database of precipitating auroral electrons and ions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9056-9067.	0.8	55
4	Some Characteristics of the Ionospheric Behavior During the Solar Cycle 23 Minimum. <i>Solar Physics</i> , 2011, 274, 439-456.	1.0	50
5	Energetic Electron Precipitation: Multievent Analysis of Its Spatial Extent During EMIC Wave Activity. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2466-2483.	0.8	50
6	Direct Observation of Subrelativistic Electron Precipitation Potentially Driven by EMIC Waves. <i>Geophysical Research Letters</i> , 2019, 46, 12711-12721.	1.5	41
7	Modes of high-latitude auroral conductance variability derived from DMSP energetic electron precipitation observations: Empirical orthogonal function analysis. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 11,013.	0.8	37
8	Quantification of Energetic Electron Precipitation Driven by Plume Whistler Mode Waves, Plasmaspheric Hiss, and Exohiss. <i>Geophysical Research Letters</i> , 2019, 46, 3615-3624.	1.5	37
9	Evaluation of OVATION Prime as a forecast model for visible aurorae. <i>Space Weather</i> , 2012, 10, .	1.3	34
10	A new DMSP magnetometer and auroral boundary data set and estimates of field-aligned currents in dynamic auroral boundary coordinates. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9068-9079.	0.8	34
11	Vertical thermal O^{+} flows at 850 km in dynamic auroral boundary coordinates. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	33
12	Comparison of magnetic perturbation data from LEO satellite constellations: Statistics of DMSP and AMPERE. <i>Space Weather</i> , 2014, 12, 2-23.	1.3	33
13	Large-amplitude electric fields in the inner magnetosphere: Van Allen Probes observations of subauroral polarization streams. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5294-5306.	0.8	32
14	A Forecasting Ionospheric Real-time Scintillation Tool (FIRST). <i>Space Weather</i> , 2010, 8, n/a-n/a.	1.3	31
15	Predictive ability of four auroral precipitation models as evaluated using Polar UVI global images. <i>Space Weather</i> , 2010, 8, n/a-n/a.	1.3	29
16	Understanding the Driver of Energetic Electron Precipitation Using Coordinated Multisatellite Measurements. <i>Geophysical Research Letters</i> , 2018, 45, 6755-6765.	1.5	29
17	A statistical comparison of the AMIE derived and DMSP-SSIES observed high-latitude ionospheric electric field. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	26
18	A statistical study of midlatitude spread F at Wallops Island, Virginia. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	22

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19	A comprehensive rocket and radar study of midlatitude spread F . Journal of Geophysical Research, 2010, 115, .	3.3	22
20	Low-energy ion precipitation structures associated with pulsating auroral patches. Journal of Geophysical Research: Space Physics, 2015, 120, 5408-5431.	0.8	19
21	Large-amplitude GPS TEC variations associated with Pc5-6 magnetic field variations observed on the ground and at geosynchronous orbit. Journal of Geophysical Research: Space Physics, 2015, 120, 7798-7821.	0.8	19
22	Approximate forms of daytime ionospheric conductance. Journal of Geophysical Research: Space Physics, 2014, 119, 10,397.	0.8	17
23	Low-altitude satellite measurements of pulsating auroral electrons. Journal of Geophysical Research: Space Physics, 2015, 120, 8111-8124.	0.8	16
24	Geomagnetic main field modeling with DMSP. Journal of Geophysical Research: Space Physics, 2014, 119, 4010-4025.	0.8	15
25	Van Allen Probe observations of drift-bounce resonances with Pc 4 pulsations and wave-particle interactions in the pre-midnight inner magnetosphere. Annales Geophysicae, 2015, 33, 955-964.	0.6	15
26	Multipoint spacecraft observations of long-lasting poloidal Pc4 pulsations in the dayside magnetosphere on 1-2 May 2014. Annales Geophysicae, 2016, 34, 985-998.	0.6	15
27	Forecasting and remote sensing outer belt relativistic electrons from low Earth orbit. Geophysical Research Letters, 2016, 43, 1031-1038.	1.5	14
28	Estimating the Azimuthal Mode Structure of ULF Waves Based on Multiple GOES Satellite Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 5009-5026.	0.8	13
29	Space Physics Interactive Data Resource-SPIDR. Earth Science Informatics, 2008, 1, 79-91.	1.6	12
30	A global comparison of O^+ upward flows at 850 km and outflow rates at 6000 km during nonstorm times. Journal of Geophysical Research, 2012, 117, .	3.3	12
31	Dawnward shift of the dayside O^+ outflow distribution: The importance of field line history in O^+ escape from the ionosphere. Journal of Geophysical Research, 2012, 117, .	3.3	12
32	Correlation between Poynting flux and soft electron precipitation in the dayside polar cap boundary regions. Journal of Geophysical Research: Space Physics, 2015, 120, 9102-9109.	0.8	12
33	Forecasting scintillation activity and equatorial spread F . Space Weather, 2017, 15, 495-502.	1.3	12
34	First Results From Sonification and Exploratory Citizen Science of Magnetospheric ULF Waves: Long-Lasting Decreasing-Frequency Poloidal Field Line Resonances Following Geomagnetic Storms. Space Weather, 2018, 16, 1753-1769.	1.3	12
35	POES/MEPED Angular Response Functions and the Precipitating Radiation Belt Electron Flux. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028240.	0.8	10
36	Impact of active geomagnetic conditions on stimulated radiation during ionospheric second electron gyroharmonic heating. Journal of Geophysical Research: Space Physics, 2014, 119, 548-565.	0.8	9

#	ARTICLE	IF	CITATIONS
37	Improved Polar and Geosynchronous Satellite Data Sets Available in Common Data Format at the Coordinated Data Analysis Web. <i>Space Weather</i> , 2015, 13, 254-256.	1.3	9
38	Localized thermosphere ionization events during the high-speed stream interval of 29 April to 5 May 2011. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 675-696.	0.8	9
39	GPS TEC response to Pc4 giant pulsations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1722-1735.	0.8	9
40	Internal Charge Estimates for Satellites in Low Earth Orbit and Space Environment Attribution. <i>IEEE Transactions on Plasma Science</i> , 2017, 45, 1985-1997.	0.6	9
41	Strong ambipolar-driven ion upflow within the cleft ion fountain during low geomagnetic activity. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6950-6969.	0.8	8
42	Multisatellite observations of the magnetosphere response to changes in the solar wind and interplanetary magnetic field. <i>Annales Geophysicae</i> , 2018, 36, 1319-1333.	0.6	8
43	Impacts of Binning Methods on High-Latitude Electrodynamic Forcing: Static Versus Boundary-Oriented Binning Methods. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027270.	0.8	7
44	An assessment of the role of soft electron precipitation in global ion upwelling. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7665-7678.	0.8	6
45	A large-scale view of Space Technology 5 magnetometer response to solar wind drivers. <i>Earth and Space Science</i> , 2015, 2, 115-124.	1.1	5
46	Nowcasting and forecasting of the magnetopause and bow shock – A status update. <i>Space Weather</i> , 2017, 15, 36-43.	1.3	5
47	Impulsively Excited Nightside Ultralow Frequency Waves Simultaneously Observed on and off the Magnetic Equator. <i>Geophysical Research Letters</i> , 2018, 45, 7918-7926.	1.5	5
48	The Environmental Scenario Generator (ESG): a distributed environmental data archive analysis tool. <i>Data Science Journal</i> , 2004, 3, 10-28.	0.6	4
49	Integrating and mining distributed environmental archives on Grids. <i>Concurrency Computation Practice and Experience</i> , 2007, 19, 2157-2170.	1.4	3
50	Multipoint observations of compressional Pc5 pulsations in the dayside magnetosphere and corresponding particle signatures. <i>Annales Geophysicae</i> , 2020, 38, 1267-1281.	0.6	3
51	Nightside Pi2 Wave Properties During an Extended Period With Stable Plasmapause Location and Variable Geomagnetic Activity. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,120.	0.8	2
52	Recent Geoeffective Space Weather Events and Technological System Impacts. , 2018, , 587-609.		2
53	Characterizing the pre-Space Age ionosphere over Washington, DC. <i>Radio Science</i> , 2014, 49, 616-629.	0.8	1
54	Cross Calibration of >16 MeV Proton Measurements From NOAA POES and EUMETSAT MetOp Satellites. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6906-6926.	0.8	1

#	ARTICLE	IF	CITATIONS
55	New lightning-derived vertical total electron content data provides unique global ionospheric measurements. Space Weather, 0, , .	1.3	0