

Adam C Kellerman

List of Publications by Year in descending order

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Version: 2024-02-01

47
papers

1,254
citations

394421

19
h-index

377865

34
g-index

51
all docs

51
docs citations

51
times ranked

1119
citing authors

#	ARTICLE	IF	CITATIONS
1	Unusual stable trapping of the ultrarelativistic electrons in the Van Allen radiation belts. <i>Nature Physics</i> , 2013, 9, 699-703.	16.7	143
2	Wave-induced loss of ultra-relativistic electrons in the Van Allen radiation belts. <i>Nature Communications</i> , 2016, 7, 12883.	12.8	127
3	Multi-MeV electron loss in the heart of the radiation belts. <i>Geophysical Research Letters</i> , 2017, 44, 1204-1209.	4.0	89
4	Radial distributions of equatorial phase space density for outer radiation belt electrons. <i>Geophysical Research Letters</i> , 2012, 39, .	4.0	68
5	Combined convective and diffusive simulations: VERB 4D comparison with 17 March 2013 Van Allen Probes observations. <i>Geophysical Research Letters</i> , 2015, 42, 9600-9608.	4.0	67
6	Energetic, relativistic, and ultrarelativistic electrons: Comparison of long-term VERB code simulations with Van Allen Probes measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3574-3587.	2.4	67
7	THEMIS observations of ULF wave excitation in the nightside plasma sheet during sudden impulse events. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 284-298.	2.4	59
8	EMIC wave parameterization in the long-term VERB code simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8488-8501.	2.4	55
9	On the influence of solar wind conditions on the outer electron radiation belt. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	53
10	Application of a new data operator splitting data assimilation technique to the 3D VERB diffusion code and CRRES measurements. <i>Geophysical Research Letters</i> , 2013, 40, 4998-5002.	4.0	32
11	Three-dimensional data assimilation and reanalysis of radiation belt electrons: Observations of a four-zone structure using five spacecraft and the VERB code. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 8764-8783.	2.4	31
12	The dynamics of Van Allen belts revisited. <i>Nature Physics</i> , 2018, 14, 102-103.	16.7	31
13	Signatures of Ultrarelativistic Electron Loss in the Heart of the Outer Radiation Belt Measured by Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,102.	2.4	30
14	Dependence of radiation belt simulations to assumed radial diffusion rates tested for two empirical models of radial transport. <i>Space Weather</i> , 2017, 15, 150-162.	3.7	29
15	Snakes on a Spaceship – An Overview of Python in Heliophysics. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 10,384.	2.4	28
16	Calculation of Last Closed Drift Shells for the 2013 GEM Radiation Belt Challenge Events. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9597-9611.	2.4	27
17	The role of the convection electric field in filling the slot region between the inner and outer radiation belts. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2051-2068.	2.4	25
18	Ionospheric precursors to large earthquakes: A case study of the 2011 Japanese Tohoku Earthquake. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2013, 102, 290-297.	1.6	23

#	ARTICLE	IF	CITATIONS
19	SAPS intensification during substorm recovery: A multi-instrument case study. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	20
20	EMIC Wave Events During the Four GEM QARBM Challenge Intervals. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6394-6423.	2.4	20
21	On the Initial Enhancement of Energetic Electrons and the Innermost Plasmapause Locations: Coronal Mass Ejection-Driven Storm Periods. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9252-9264.	2.4	20
22	Time evolution of the subauroral electric fields: A case study during a sequence of two substorms. <i>Journal of Geophysical Research</i> , 2009, 114, .	3.3	19
23	Resolving Magnetopause Shadowing Using Multimission Measurements of Phase Space Density. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	17
24	A Geosynchronous Radiation-belt Electron Empirical Prediction (GREEP) model. <i>Space Weather</i> , 2013, 11, 463-475.	3.7	15
25	Numerical applications of the advective-diffusive codes for the inner magnetosphere. <i>Space Weather</i> , 2016, 14, 993-1010.	3.7	15
26	Characterization of the energy-dependent response of riometer absorption. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 615-631.	2.4	14
27	Electron Intensity Measurements by the Cluster/RAPID/IES Instrument in Earth's Radiation Belts and Ring Current. <i>Space Weather</i> , 2019, 17, 553-566.	3.7	13
28	Application usability levels: a framework for tracking project product progress. <i>Journal of Space Weather and Space Climate</i> , 2019, 9, A34.	3.3	13
29	Transport and Loss of Ring Current Electrons Inside Geosynchronous Orbit During the 17 March 2013 Storm. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 915-933.	2.4	11
30	Contamination in electron observations of the silicon detector on board Cluster/RAPID/IES instrument in Earth's radiation belts and ring current. <i>Space Weather</i> , 2016, 14, 449-462.	3.7	9
31	Developing the LDi and LCi Geomagnetic Indices, an Example of Application of the AULs Framework. <i>Space Weather</i> , 2020, 18, e2019SW002171.	3.7	9
32	The response of auroral absorption to substorm onset: Superposed epoch and propagation analyses. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	8
33	Electric field control of <i>E</i> region coherent echoes: Evidence from radar observations at the South Pole. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2148-2165.	2.4	8
34	An Event on Simultaneous Amplification of Exohiss and Chorus Waves Associated With Electron Density Enhancements. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8958-8968.	2.4	8
35	First observations of simultaneous interhemispheric conjugate high-latitude thermospheric winds. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	7
36	Adiabatic Invariants Calculations for Cluster Mission: A Long-Term Product for Radiation Belts Studies. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027576.	2.4	7

#	ARTICLE	IF	CITATIONS
37	Noise statistics identification for Kalman filtering of the electron radiation belt observations I: Model errors. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5700-5724.	2.4	6
38	On the relationship between auroral absorption, electrojet currents and plasma convection. <i>Annales Geophysicae</i> , 2009, 27, 473-486.	1.6	5
39	Interactions between energetic electrons and realistic whistler mode waves in the Jovian magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5355-5364.	2.4	5
40	Characteristics of Substorm Onset-Related and Nonsubstorm Earthward Fast Flows and Associated Magnetic Flux Transport: THEMIS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028313.	2.4	4
41	Geomagnetically Induced Currents at Middle Latitudes: 1. Quiet-Time Variability. <i>Space Weather</i> , 2022, 20, e2021SW002729.	3.7	4
42	Trapped Electron Energy Inferred From Cosmic Noise Absorption Signals Through Drift-Time Analysis in Empirical Electric and Semi-Empirical Magnetic Fields. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028887.	2.4	3
43	Revealing Novel Connections Between Space Weather and the Power Grid: Network Analysis of Ground-Based Magnetometer and Geomagnetically Induced Currents (GIC) Measurements. <i>Space Weather</i> , 2022, 20, .	3.7	3
44	Noise statistics identification for Kalman filtering of the electron radiation belt observations: 2. Filtration and smoothing. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 5725-5743.	2.4	2
45	On the azimuthal evolution and geoeffectiveness of the SIR-associated stream interface. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1489-1508.	2.4	2
46	Prediction of MeV Electron Fluxes and Forecast Verification. , 2018, , 259-278.		2
47	Ensemble Modeling of Radiation Belt Electron Flux Decay Following a Geomagnetic Storm: Dependence on Key Input Parameters. <i>Space Weather</i> , 0, , .	3.7	1