

A N Jaynes

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/3099388/publications.pdf>

Version: 2024-02-01

103
papers

4,476
citations

109321

35
h-index

114465

63
g-index

122
all docs

122
docs citations

122
times ranked

2474
citing authors

#	ARTICLE	IF	CITATIONS
1	Electron-scale measurements of magnetic reconnection in space. <i>Science</i> , 2016, 352, aaf2939.	12.6	545
2	The Space Physics Environment Data Analysis System (SPEDAS). <i>Space Science Reviews</i> , 2019, 215, 9.	8.1	332
3	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. <i>Science</i> , 2018, 362, 1391-1395.	12.6	221
4	Source and seed populations for relativistic electrons: Their roles in radiation belt changes. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 7240-7254.	2.4	215
5	An impenetrable barrier to ultrarelativistic electrons in the Van Allen radiation belts. <i>Nature</i> , 2014, 515, 531-534.	27.8	159
6	Gradual diffusion and punctuated phase space density enhancements of highly relativistic electrons: Van Allen Probes observations. <i>Geophysical Research Letters</i> , 2014, 41, 1351-1358.	4.0	127
7	Space Weather Effects in the Earth's Radiation Belts. <i>Space Science Reviews</i> , 2018, 214, 1.	8.1	121
8	Highly relativistic radiation belt electron acceleration, transport, and loss: Large solar storm events of March and June 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6647-6660.	2.4	93
9	The Fly's Eye Energetic Particle Spectrometer (FEEPS) Sensors for the Magnetospheric Multiscale (MMS) Mission. <i>Space Science Reviews</i> , 2016, 199, 309-329.	8.1	89
10	The Response of Earth's Electron Radiation Belts to Geomagnetic Storms: Statistics From the Van Allen Probes Era Including Effects From Different Storm Drivers. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1013-1034.	2.4	84
11	The distribution of plasmaspheric hiss wave power with respect to plasmopause location. <i>Geophysical Research Letters</i> , 2016, 43, 7878-7886.	4.0	78
12	Upper limit on the inner radiation belt MeV electron intensity. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 1215-1228.	2.4	77
13	Prompt acceleration of magnetospheric electrons to ultrarelativistic energies by the 17 March 2015 interplanetary shock. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7622-7635.	2.4	68
14	Electron jet of asymmetric reconnection. <i>Geophysical Research Letters</i> , 2016, 43, 5571-5580.	4.0	66
15	Electric and magnetic radial diffusion coefficients using the Van Allen probes data. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 9586-9607.	2.4	66
16	Plasmaspheric hiss waves generate a reversed energy spectrum of radiation belt electrons. <i>Nature Physics</i> , 2019, 15, 367-372.	16.7	66
17	Relativistic Electron Microbursts as High-Energy Tail of Pulsating Aurora Electrons. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090360.	4.0	66
18	Observations of whistler mode waves with nonlinear parallel electric fields near the dayside magnetic reconnection separatrix by the Magnetospheric Multiscale mission. <i>Geophysical Research Letters</i> , 2016, 43, 5909-5917.	4.0	61

#	ARTICLE	IF	CITATIONS
19	Observations of the impenetrable barrier, the plasmopause, and the VLF bubble during the 17 March 2015 storm. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5537-5548.	2.4	59
20	Statistical properties of low-frequency plasmaspheric hiss. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8340-8352.	2.4	55
21	Peculiar pitch angle distribution of relativistic electrons in the inner radiation belt and slot region. <i>Geophysical Research Letters</i> , 2014, 41, 2250-2257.	4.0	53
22	Energy limits of electron acceleration in the plasma sheet during substorms: A case study with the Magnetospheric Multiscale (MMS) mission. <i>Geophysical Research Letters</i> , 2016, 43, 7785-7794.	4.0	51
23	Observations of the inner radiation belt: CRAND and trapped solar protons. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 6541-6552.	2.4	50
24	Correlated Pc4-5 ULF waves, whistler-mode chorus, and pulsating aurora observed by the Van Allen Probes and ground-based systems. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8749-8761.	2.4	50
25	Statistical study of the storm time radiation belt evolution during Van Allen Probes era: CME-versus CIR-driven storms. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 8327-8339.	2.4	50
26	Fast Diffusion of Ultrarelativistic Electrons in the Outer Radiation Belt: 17 March 2015 Storm Event. <i>Geophysical Research Letters</i> , 2018, 45, 10874-10882.	4.0	49
27	Investigating the source of near-relativistic and relativistic electrons in Earth's inner radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 695-710.	2.4	48
28	Multiyear Measurements of Radiation Belt Electrons: Acceleration, Transport, and Loss. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2588-2602.	2.4	48
29	Kinetic evidence of magnetic reconnection due to Kelvin-Helmholtz waves. <i>Geophysical Research Letters</i> , 2016, 43, 5635-5643.	4.0	47
30	Autogenous and efficient acceleration of energetic ions upstream of Earth's bow shock. <i>Nature</i> , 2018, 561, 206-210.	27.8	47
31	Pulsating auroral electron flux modulations in the equatorial magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4884-4894.	2.4	46
32	Multipoint Observations of Energetic Particle Injections and Substorm Activity During a Conjunction Between Magnetospheric Multiscale (MMS) and Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,481.	2.4	42
33	Characteristics of pitch angle distributions of hundreds of keV electrons in the slot region and inner radiation belt. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9543-9557.	2.4	41
34	An Empirical Model of Radiation Belt Electron Pitch Angle Distributions Based On Van Allen Probes Measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3493-3511.	2.4	41
35	Persistent, widespread pulsating aurora: A case study. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2998-3006.	2.4	40
36	On the relation between radiation belt electrons and solar wind parameters/geomagnetic indices: Dependence on the first adiabatic invariant and $\langle L \rangle^*$. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1624-1642.	2.4	38

#	ARTICLE	IF	CITATIONS
37	Space Weather Effects Produced by the Ring Current Particles. <i>Space Science Reviews</i> , 2017, 212, 1315-1344.	8.1	38
38	Van Allen Probes observations of oxygen cyclotron harmonic waves in the inner magnetosphere. <i>Geophysical Research Letters</i> , 2016, 43, 8827-8834.	4.0	35
39	RBSPâ€ECT Combined Spinâ€Averaged Electron Flux Data Product. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9124-9136.	2.4	34
40	Radiation belt electron dynamics at low L : Van Allen Probes era versus previous two solar cycles. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5224-5234.	2.4	33
41	Simulated Prompt Acceleration of Multi-MeV Electrons by the 17 March 2015 Interplanetary Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 10,036.	2.4	33
42	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.	2.4	32
43	Prompt injections of highly relativistic electrons induced by interplanetary shocks: A statistical study of Van Allen Probes observations. <i>Geophysical Research Letters</i> , 2016, 43, 12,317.	4.0	32
44	Multiscale Currents Observed by MMS in the Flow Braking Region. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1260-1278.	2.4	32
45	Lower Hybrid Drift Waves and Electromagnetic Electron Space-Phase Holes Associated With Dipolarization Fronts and Field-Aligned Currents Observed by the Magnetospheric Multiscale Mission During a Substorm. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 12,236.	2.4	31
46	Transient, small-scale field-aligned currents in the plasma sheet boundary layer during storm time substorms. <i>Geophysical Research Letters</i> , 2016, 43, 4841-4849.	4.0	30
47	A telescopic and microscopic examination of acceleration in the June 2015 geomagnetic storm: Magnetospheric Multiscale and Van Allen Probes study of substorm particle injection. <i>Geophysical Research Letters</i> , 2016, 43, 6051-6059.	4.0	30
48	THEMIS measurements of quasi-static electric fields in the inner magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9939-9951.	2.4	29
49	Kinetic Alfvén waves and particle response associated with a shock-induced, global ULF perturbation of the terrestrial magnetosphere. <i>Geophysical Research Letters</i> , 2015, 42, 9203-9212.	4.0	29
50	Evolution of relativistic outer belt electrons during an extended quiescent period. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 9558-9566.	2.4	28
51	Investigating Loss of Relativistic Electrons Associated With EMIC Waves at Low L Values on 22 June 2015. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4022-4036.	2.4	28
52	On the Acceleration Mechanism of Ultrarelativistic Electrons in the Center of the Outer Radiation Belt: A Statistical Study. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 8590-8599.	2.4	27
53	Inward diffusion and loss of radiation belt protons. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1969-1978.	2.4	26
54	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

#	ARTICLE	IF	CITATIONS
73	Statistical analysis of MMS observations of energetic electron escape observed at/beyond the dayside magnetopause. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9440-9463.	2.4	14
74	Outer Van Allen Radiation Belt Response to Interacting Interplanetary Coronal Mass Ejections. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 1927-1947.	2.4	14
75	Microinjections observed by MMS FEEPS in the dusk to midnight region. <i>Geophysical Research Letters</i> , 2016, 43, 6078-6086.	4.0	13
76	The AEPEX mission: Imaging energetic particle precipitation in the atmosphere through its bremsstrahlung X-ray signatures. <i>Advances in Space Research</i> , 2020, 66, 66-82.	2.6	13
77	RBSPâ€œECT Combined Pitch Angle Resolved Electron Flux Data Product. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028637.	2.4	11
78	Can Earth's Magnetotail Plasma Sheet Produce a Source of Relativistic Electrons for the Radiation Belts?. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL095495.	4.0	11
79	Simultaneous Observations of Electromagnetic Ion Cyclotron (EMIC) Waves and Pitch Angle Scattering During a Van Allen Probes Conjunction. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027424.	2.4	10
80	Driftâ€œDispersed Flux Dropouts of Energetic Electrons Observed in Earth's Middle Magnetosphere by the Magnetospheric Multiscale (MMS) Mission. <i>Geophysical Research Letters</i> , 2019, 46, 3069-3078.	4.0	7
81	Prompt Response of the Dayside Magnetosphere to Discrete Structures Within the Sheath Region of a Coronal Mass Ejection. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092700.	4.0	7
82	Van Allen Probes Observations of Multiâ€œMeV Electron Driftâ€œPeriodic Flux Oscillations in Earth's Outer Radiation Belt During the March 2017 Event. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029284.	2.4	7
83	Radial Transport Versus Local Acceleration: The Longâ€œStanding Debate. <i>Earth and Space Science</i> , 2022, 9, .	2.6	7
84	MHDâ€œTest Particles Simulations of Moderate CME and CIRâ€œDriven Geomagnetic Storms at Solar Minimum. <i>Space Weather</i> , 2021, 19, e2021SW002882.	3.7	6
85	Solar Energetic Proton Access to the Nearâ€œEquatorial Inner Magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027584.	2.4	5
86	Testing the Organization of Lowerâ€œBand Whistlerâ€œMode Chorus Wave Properties by Plasmopause Location. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028458.	2.4	5
87	James Van Allen and His Namesake <sc>NASA</sc> Mission. <i>Eos</i> , 2013, 94, 469-470.	0.1	4
88	Characteristics of Highâ€œEnergy Proton Responses to Geomagnetic Activities in the Inner Radiation Belt Observed by the RBSP Satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 7581-7591.	2.4	4
89	The Role of the Dynamic Plasmopause in Outer Radiation Belt Electron Flux Enhancement. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL086991.	4.0	3
90	Multiâ€œMeV Electron Dynamics Near the Inner Edge of the Outer Radiation Belt. <i>Geophysical Research Letters</i> , 2021, 48, .	4.0	3

#	ARTICLE	IF	CITATIONS
91	Statistical Similarities Between WSAâ€™ENLIL+ Cone Model and MAVEN in Situ Observations From November 2014 to March 2016. <i>Space Weather</i> , 2018, 16, 157-171.	3.7	2
92	Raytracing Study of Source Regions of Whistler Mode Wave Power Distribution Relative to the Plasmapause. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027154.	2.4	2
93	Swarm Observations of Dawn/Dusk Asymmetries Between Pedersen Conductance in Upward and Downward Fieldâ€™Aligned Current Regions. <i>Earth and Space Science</i> , 2021, 8, e2020EA001167.	2.6	2
94	Phase Space Density Analysis of Outer Radiation Belt Electron Energization and Loss During Geoeffective and Nongeoeffective Sheath Regions. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	2.4	2
95	Statistics of Multiâ€™MeV Electron Driftâ€™Periodic Flux Oscillations Using Van Allen Probes Observations. <i>Geophysical Research Letters</i> , 2022, 49, .	4.0	2
96	The origin of pulsating auroras. <i>Nature</i> , 2018, 554, 302-303.	27.8	1
97	Van Allen Belt Punctures and Their Correlation With Solar Wind, Geomagnetic Activity, and ULF Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, .	2.4	1
98	A Statistical Study of Magnetopause Boundary Layer Energetic Electron Enhancements Using MMS. <i>Frontiers in Astronomy and Space Sciences</i> , 0, 9, .	2.8	1
99	Power distribution of magnetospheric whistler mode waves with finite electron and ion temperature. , 2017, , .		0
100	Frequency Dependent Source Locations of Whistler Mode Waves in the Plasmasphere: A Raytracing Approach. , 2018, , .		0
101	The Diffuse Auroral Eraser. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028805.	2.4	0
102	Space Weather Effects Produced by the Ring Current Particles. <i>Space Sciences Series of ISSI</i> , 2017, , 431-460.	0.0	0
103	Space Weather Effects in the Earthâ€™s Radiation Belts. <i>Space Sciences Series of ISSI</i> , 2017, , 371-430.	0.0	0