J R Wygant

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

223 papers	9,700 citations	52 h-index	90 g-index
233 ext. papers	11,007 ext. citations	4.5 avg, IF	5.66 L-index

#	Paper	IF	Citations
223	Maximizing the Accuracy of Double Probe Electric Field Measurements Near Perigee: The Case of the Van Allen Probes Instruments. *Journal of Geophysical Research: Space Physics*, **2022**, 127,	2.6	0
222	Quantifying the Sheath Impedance of the Electric Double Probe Instrument on the Van Allen Probes. *Journal of Geophysical Research: Space Physics*, **2022**, 127,	2.6	3
221	Auroral Beads in Conjunction With Kinetic Alfvfi Waves in the Equatorial Inner-Magnetosphere. *Geophysical Research Letters*, **2022**, 49,	4.9	0
220	Testing the Organization of Lower-Band Whistler-Mode Chorus Wave Properties by Plasmapause Location. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028458	2.6	2
219	Multi-Event Analysis of Plasma and Field Variations in Source of Stable Auroral Red (SAR) Arcs in Inner Magnetosphere During Non-Storm-Time Substorms. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA029081	2.6	1
218	ULF Wave Driven Radial Diffusion During Geomagnetic Storms: A Statistical Analysis of Van Allen Probes Observations. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA029024	2.6	8
217	Parker Solar Probe Evidence for Scattering of Electrons in the Young Solar Wind by Narrowband Whistler-mode Waves. *Astrophysical Journal Letters*, **2021**, 911, L29	7.9	11
216	Evidence of Alfvenic Poynting Flux as the Primary Driver of Auroral Motion During a Geomagnetic Substorm. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA029019	2.6	4
215	Simultaneous Observation of Two Isolated Proton Auroras at Subauroral Latitudes by a Highly Sensitive All-Sky Camera and Van Allen Probes. *Journal of Geophysical Research: Space Physics*, **2021** , 126, e2020JA029078	2.6	3
214	A Multi-Instrument Study of a Dipolarization Event in the Inner Magnetosphere. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029294	2.6	
213	Electromagnetic power of lightning superbolts from Earth to space. *Nature Communications*, **2021**, 12, 3553	17.4	4
212	Multipoint Observations of Quasiperiodic Emission Intensification and Effects on Energetic Electron Precipitation. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028484	2.6	2
211	Modeling advective transport of radiation belt electrons. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2021**, 214, 105509	2	1
210	Investigation of Small-Scale Electron Density Irregularities Observed by the Arase and Van Allen Probes Satellites Inside and Outside the Plasmasphere. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA027917	2.6	1
209	Chorus and Hiss Scales in the Inner Magnetosphere: Statistics From High-Resolution Filter Bank (FBK) Van Allen Proves Multi-Point Measurements. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028998	2.6	0
208	Detection of Hertz Frequency Multiharmonic Field Line Resonances at Low-L (L´=´1.1fl1.5) During Van Allen Probe Perigee Passes. *Geophysical Research Letters*, **2021**, 48, 2020GL090632	4.9	0
207	Relation Between Shock-Related Impulse and Subsequent ULF Wave in the Earth's Magnetosphere. *Geophysical Research Letters*, **2020**, 47, e2020GL090027	4.9	3

206	First Direct Observations of Propagation of Discrete Chorus Elements From the Equatorial Source to Higher Latitudes, Using the Van Allen Probes and Arase Satellites. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028315	2.6	8
205	Analysis of Electric and Magnetic Lightning-Generated Wave Amplitudes Measured by the Van Allen Probes. *Geophysical Research Letters*, **2020**, 47, e2020GL087503	4.9	7
204	Multi-Point Observations of the Geospace Plume. *Geophysical Monograph Series*, **2020**, 243-264	1.1	2
203	Filamentary Currents and Alfvenic Vortices in the Inner Magnetosphere. *Geophysical Research Letters*, **2020**, 47, e2019GL086318	4.9	4
202	Determining Plasmaspheric Density From the Upper Hybrid Resonance and From the Spacecraft Potential: How Do They Compare?. *Journal of Geophysical Research: Space Physics*, **2020**, 125, no	2.6	6
201	Temporal Evolution of Substorm-Driven Global Alfven Wave Power Above the Auroral Acceleration Region. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027444	2.6	3
200	How whistler mode hiss waves and the plasmasphere drive the quiet decay of radiation belts electrons following a geomagnetic storm. *Journal of Physics: Conference Series*, **2020**, 1623, 012005	0.3	2
199	Multiharmonic Toroidal Standing Alfven Waves in the Midnight Sector Observed During a Geomagnetically Quiet Period. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027370	2.6	4
198	The Modulation of Plasma and Waves by Background Electron Density Irregularities in the Inner Magnetosphere. *Geophysical Research Letters*, **2020**, 47, e2020GL088855	4.9	12
197	Energetics and Alfvenic Coupling of a Poleward Boundary Intensification: A Polar Case Study. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028041	2.6	
196	Calculation of the Atomic Oxygen Fluence on the Van Allen Probes. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA027944	2.6	
195	Correlations Between Dispersive Alfven Wave Activity, Electron Energization, and Ion Outflow in the Inner Magnetosphere. *Geophysical Research Letters*, **2020**, 47, e2020GL088985	4.9	5
194	Efficacy of Electric Field Models in Reproducing Observed Ring Current Ion Spectra During Two Geomagnetic Storms. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 8974-8991	2.6	2
193	Temperature Dependence of Plasmaspheric Ion Composition. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 6585-6595	2.6	10
192	Global Alfven Wave Power in the Auroral Zone in Relation to the AE Index. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 8637-8646	2.6	4
191	Assessing the global Alfven wave power flow into and out of the auroral acceleration region during geomagnetic storms. *Science Advances*, **2019**, 5, eaav8411	14.3	16
190	A Statistical Study of EMIC Waves Associated With and Without Energetic Particle Injection From the Magnetotail. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 433-450	2.6	26
189	Solar Rotation Period Driven Modulations of Plasmaspheric Density and Convective Electric Field in the Inner Magnetosphere. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 1726-1737	2.6	4

188	Statistical Occurrence and Distribution of High-Amplitude Whistler Mode Waves in the Outer Radiation Belt. *Geophysical Research Letters*, **2019**, 46, 2328-2336	4.9	25
187	Multi-instrument Observations of Mesoscale Enhancement of Subauroral Polarization Stream Associated With an Injection. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 1770-1784	2.6	7
186	Simulation of Prompt Acceleration of Radiation Belt Electrons During the 16 July 2017 Storm. *Geophysical Research Letters*, **2019**, 46, 7222-7229	4.9	6
185	Transport and Loss of Ring Current Electrons Inside Geosynchronous Orbit During the 17 March 2013 Storm. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 915-933	2.6	7
184	EMIC Waves Converted From Equatorial Noise Due to M/Q = 2 Ions in the Plasmasphere: Observations From Van Allen Probes and Arase. *Geophysical Research Letters*, **2019**, 46, 5662-5669	4.9	20
183	Dispersive Alfvén Wave Control of O+ Ion Outflow and Energy Densities in the Inner Magnetosphere. *Geophysical Research Letters*, **2019**, 46, 8597-8606	4.9	11
182	Cold Plasmaspheric Electrons Affected by ULF Waves in the Inner Magnetosphere: A Van Allen Probes Statistical Study. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 7954-7965	2.6	10
181	Statistical Distribution of Whistler Mode Waves in the Radiation Belts With Large Magnetic Field Amplitudes and Comparison to Large Electric Field Amplitudes. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 6541-6552	2.6	8
180	Identifying STEVE's Magnetospheric Driver Using Conjugate Observations in the Magnetosphere and on the Ground. *Geophysical Research Letters*, **2019**, 46, 12665-12674	4.9	21
179	Global Survey and Empirical Model of Fast Magnetosonic Waves Over Their Full Frequency Range in Earth's Inner Magnetosphere. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 10270-10282	2.6	8
178	Eastward Propagating Second Harmonic Poloidal Waves Triggered by Temporary Outward Gradient of Proton Phase Space Density: Van Allen Probe A Observation. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 9904-9923	2.6	10
177	Highly structured slow solar wind emerging from an equatorial coronal hole. *Nature*, **2019**, 576, 237-242	50.4	215
176	Low-Energy (. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 405-419	2.6	18
175	Nonlinear Electrostatic Steepening of Whistler Waves: The Guiding Factors and Dynamics in Inhomogeneous Systems. *Geophysical Research Letters*, **2018**, 45, 2168-2176	4.9	19
174	Van Allen Probes Observations of Second Harmonic Poloidal Standing Alfvén Waves. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 611-637	2.6	31
173	Radiation Belt "Dropouts" and Drift-Bounce Resonances in Broadband Electromagnetic Waves. *Geophysical Research Letters*, **2018**, 45, 2128-2137	4.9	10
172	Characteristics of Sudden Commencements Observed by Van Allen Probes in the Inner Magnetosphere. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 1295-1304	2.6	2
171	Ion Injection Triggered EMIC Waves in the Earth's Magnetosphere. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 4921-4938	2.6	23

170	A Census of Plasma Waves and Structures Associated With an Injection Front in the Inner Magnetosphere. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 2566-2587	2.6	19
169	Observations of Impulsive Electric Fields Induced by Interplanetary Shock. *Geophysical Research Letters*, **2018**, 45, 7287-7296	4.9	12
168	A Comparative Study of ULF Waves' Role in the Dynamics of Charged Particles in the Plasmasphere: Van Allen Probes Observation. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 5334-5343	2.6	17
167	Response of Different Ion Species to Local Magnetic Dipolarization Inside Geosynchronous Orbit. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 5420-5434	2.6	11
166	Nonlinear Drift Resonance Between Charged Particles and Ultralow Frequency Waves: Theory and Observations. *Geophysical Research Letters*, **2018**, 45, 8773-8782	4.9	18
165	Rapid Enhancements of the Seed Populations in the Heart of the Earth's Outer Radiation Belt: A Multicase Study. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 4895-4907	2.6	4
164	Van Allen Probes observation of plasmaspheric hiss modulated by injected energetic electrons. *Annales Geophysicae*, **2018**, 36, 781-791	2	6
163	Simulations of Van Allen Probes Plasmaspheric Electron Density Observations. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 9453-9475	2.6	6
162	EMIC Wave Events During the Four GEM QARBM Challenge Intervals. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 6394-6423	2.6	16
161	Fast Diffusion of Ultrarelativistic Electrons in the Outer Radiation Belt: 17 March 2015 Storm Event. *Geophysical Research Letters*, **2018**, 45, 10874-10882	4.9	26
160	MMS, Van Allen Probes, GOES 13, and Ground-Based Magnetometer Observations of EMIC Wave Events Before, During, and After a Modest Interplanetary Shock. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 8331-8357	2.6	19
159	Response of Banded Whistler Mode Waves to the Enhancement of Solar Wind Dynamic Pressure in the Inner Earth's Magnetosphere. *Geophysical Research Letters*, **2018**, 45, 8755-8763	4.9	6
158	Variation in Plasmaspheric Hiss Wave Power With Plasma Density. *Geophysical Research Letters*, **2018**, 45, 9417-9426	4.9	21
157	Pitch Angle Scattering and Loss of Radiation Belt Electrons in Broadband Electromagnetic Waves. *Geophysical Research Letters*, **2018**, 45, 9344-9352	4.9	9
156	Excitation of O+ Band EMIC Waves Through H+ Ring Velocity Distributions: Van Allen Probe Observations. *Geophysical Research Letters*, **2018**, 45, 1271-1276	4.9	14
155	Coherently modulated whistler mode waves simultaneously observed over unexpectedly large spatial scales. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 1871-1882	2.6	9
154	Zipper-like periodic magnetosonic waves: Van Allen Probes, THEMIS, and magnetospheric multiscale observations. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 1600-1610	2.6	11
153	In situ statistical observations of Pc1 pearl pulsations and unstructured EMIC waves by the Van Allen Probes. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 105-119	2.6	16

152	Van Allen Probes observations of structured whistler mode activity and coincident electron Landau acceleration inside a remnant plasmaspheric plume. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 3073-3086	2.6	13
151	Location of intense electromagnetic ion cyclotron (EMIC) wave events relative to the plasmapause: Van Allen Probes observations. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 4064-4088	2.6	37
150	Simultaneous disappearances of plasmaspheric hiss, exohiss, and chorus waves triggered by a sudden decrease in solar wind dynamic pressure. *Geophysical Research Letters*, **2017**, 44, 52-61	4.9	27
149	Chorus whistler wave source scales as determined from multipoint Van Allen Probe measurements. *Geophysical Research Letters*, **2017**, 44, 2634-2642	4.9	32
148	An improved sheath impedance model for the Van Allen Probes EFW instrument: Effects of the spin axis antenna. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 4420-4429	2.6	16
147	A multispacecraft event study of Pc5 ultralow-frequency waves in the magnetosphere and their external drivers. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 5132-5147	2.6	15
146	Van Allen Probes observation of a 360° phase shift in the flux modulation of injected electrons by ULF waves. *Geophysical Research Letters*, **2017**, 44, 1614	4.9	11
145	Cross-scale observations of the 2015 St. Patrick's day storm: THEMIS, Van Allen Probes, and TWINS. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 368-392	2.6	19
144	Simulated Prompt Acceleration of Multi-MeV Electrons by the 17 March 2015 Interplanetary Shock. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 10,036-10,046	2.6	20
143	Low-Energy (. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 9969-9982	2.6	21
142	SC-Associated Electric Field Variations in the Magnetosphere and Ionospheric Convective Flows. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 11,044-11,057	2.6	2
141	Dayside response of the magnetosphere to a small shock compression: Van Allen Probes, Magnetospheric MultiScale, and GOES-13. *Geophysical Research Letters*, **2017**, 44, 8712-8720	4.9	13
140	Statistical properties of low-frequency plasmaspheric hiss. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 8340-8352	2.6	39
139	Radial transport of radiation belt electrons in kinetic field-line resonances. *Geophysical Research Letters*, **2017**, 44, 8140-8148	4.9	13
138	Very Oblique Whistler Mode Propagation in the Radiation Belts: Effects of Hot Plasma and Landau Damping. *Geophysical Research Letters*, **2017**, 44, 12,057	4.9	13
137	Observations Directly Linking Relativistic Electron Microbursts to Whistler Mode Chorus: Van Allen Probes and FIREBIRD II. *Geophysical Research Letters*, **2017**, 44, 11,265-11,272	4.9	63
136	The Role of Solar Wind Structures in the Generation of ULF Waves in the Inner Magnetosphere. *Solar Physics*, **2017**, 292, 1	2.6	3
135	Rapid Loss of Radiation Belt Relativistic Electrons by EMIC Waves. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 9880-9897	2.6	29

134	Multipoint spacecraft observations of long-lasting poloidal Pc4 pulsations in the dayside magnetosphere on 1 May 2014. *Annales Geophysicae*, **2016**, 34, 985-998	2	10
133	Local time variations of high-energy plasmaspheric ion pitch angle distributions. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 6234-6244	2.6	8
132	Rapid enhancement of low-energy (. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 6430-6443	2.6	20
131	The distribution of plasmaspheric hiss wave power with respect to plasmapause location. *Geophysical Research Letters*, **2016**, 43, 7878-7886	4.9	62
130	Highly relativistic radiation belt electron acceleration, transport, and loss: Large solar storm events of March and June 2015. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 6647-6660	2.6	73
129	Prompt acceleration of magnetospheric electrons to ultrarelativistic energies by the 17 March 2015 interplanetary shock. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 7622-7635	2.6	49
128	O+ ion conic and plasma sheet dynamics observed by Van Allen Probe satellites during the 1 June 2013 magnetic storm. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 4072-4091	2.6	5
127	In situ evidence of the modification of the parallel propagation of EMIC waves by heated He+ ions. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 6711-6717	2.6	16
126	The source of O+ in the storm time ring current. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 5333-5349	2.6	47
125	Nonstorm time dropout of radiation belt electron fluxes on 24 September 2013. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 6400-6416	2.6	43
124	Hiss or equatorial noise? Ambiguities in analyzing suprathermal ion plasma wave resonance. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 9619-9631	2.6	3
123	Electric and magnetic radial diffusion coefficients using the Van Allen probes data. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 9586-9607	2.6	49
122	Survey of the frequency dependent latitudinal distribution of the fast magnetosonic wave mode from Van Allen Probes Electric and Magnetic Field Instrument and Integrated Science waveform receiver plasma wave analysis. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 2902-2921	2.6	50
121	The FIELDS Instrument Suite for Solar Probe Plus: Measuring the Coronal Plasma and Magnetic Field, Plasma Waves and Turbulence, and Radio Signatures of Solar Transients. *Space Science Reviews*, **2016**, 204, 49-82	7.5	303
120	Spacecraft surface charging within geosynchronous orbit observed by the Van Allen Probes. *Space Weather*, **2016**, 14, 151-164	3.7	34
119	Outer radiation belt dropout dynamics following the arrival of two interplanetary coronal mass ejections. *Geophysical Research Letters*, **2016**, 43, 978-987	4.9	20
118	Charged particle behavior in the growth and damping stages of ultralow frequency waves: Theory and Van Allen Probes observations. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 3254-3263	2.6	52
117	EMIC wave spatial and coherence scales as determined from multipoint Van Allen Probe measurements. *Geophysical Research Letters*, **2016**, 43, 4799-4807	4.9	21

116	Van Allen Probes observations of cross-scale coupling between electromagnetic ion cyclotron waves and higher-frequency wave modes. *Geophysical Research Letters*, **2016**, 43, 11,510	4.9	6
115	Evolution of chorus emissions into plasmaspheric hiss observed by Van Allen Probes. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 4518-4529	2.6	10
114	Partitioning of integrated energy fluxes in four tail reconnection events observed by Cluster. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 11,798-11,825	2.6	7
113	Using the cold plasma dispersion relation and whistler mode waves to quantify the antenna sheath impedance of the Van Allen Probes EFW instrument. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 4590-4606	2.6	22
112	Prompt enhancement of the Earth's outer radiation belt due to substorm electron injections. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 11,826-11,838	2.6	15
111	Plasma Wave Measurements from the Van Allen Probes. *Geophysical Monograph Series*, **2016**, 127-143	1.1	5
110	Van Allen Probes observations of oxygen cyclotron harmonic waves in the inner magnetosphere. *Geophysical Research Letters*, **2016**, 43, 8827-8834	4.9	24
109	A statistical study of whistler waves observed by Van Allen Probes (RBSP) and lightning detected by WWLLN. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 2067-2079	2.6	10
108	Modeling CME-shock-driven storms in 2012–2013: MHD test particle simulations. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 1168-1181	2.6	45
107	Link between premidnight second harmonic poloidal waves and auroral undulations: Conjugate observations with a Van Allen Probe spacecraft and a THEMIS all-sky imager. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 1814-1831	2.6	14
106	Energetic electron injections deep into the inner magnetosphere associated with substorm activity. *Geophysical Research Letters*, **2015**, 42, 2079-2087	4.9	85
105	Shock-induced prompt relativistic electron acceleration in the inner magnetosphere. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 1661-1674	2.6	82
104	Study of EMIC wave excitation using direct ion measurements. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 2702-2719	2.6	29
103	Global-scale coherence modulation of radiation-belt electron loss from plasmaspheric hiss. *Nature*, **2015**, 523, 193-5	50.4	65
102	Extreme ionospheric ion energization and electron heating in Alfvén waves in the storm time inner magnetosphere. *Geophysical Research Letters*, **2015**, 42, 10,531-10,540	4.9	28
101	Electron densities inferred from plasma wave spectra obtained by the Waves instrument on Van Allen Probes. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 904-914	2.6	303
100	Storm time occurrence and spatial distribution of Pc4 poloidal ULF waves in the inner magnetosphere: A Van Allen Probes statistical study. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 4748-4762	2.6	50
99	Low-harmonic magnetosonic waves observed by the Van Allen Probes. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 6230-6257	2.6	36

98	Near-Earth injection of MeV electrons associated with intense dipolarization electric fields: Van Allen Probes observations. *Geophysical Research Letters*, **2015**, 42, 6170-6179	4.9	43
97	Van Allen Probes observations of unusually low frequency whistler mode waves observed in association with moderate magnetic storms: Statistical study. *Geophysical Research Letters*, **2015**, 42, 7273-7281	4.9	25
96	Simultaneous Pi2 observations by the Van Allen Probes inside and outside the plasmasphere. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 4567-4575	2.6	12
95	Externally driven plasmaspheric ULF waves observed by the Van Allen Probes. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 526-552	2.6	32
94	Weak kinetic Alfvén waves turbulence during the 14 November 2012 geomagnetic storm: Van Allen Probes observations. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 5504-5523	2.6	28
93	Statistical characteristics of EMIC waves: Van Allen Probe observations. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 4400-4408	2.6	57
92	Correlated Pc4-5 ULF waves, whistler-mode chorus, and pulsating aurora observed by the Van Allen Probes and ground-based systems. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 8749-8761	2.6	35
91	Ultra-low-frequency wave-driven diffusion of radiation belt relativistic electrons. *Nature Communications*, **2015**, 6, 10096	17.4	57
90	Broadband low-frequency electromagnetic waves in the inner magnetosphere. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 8603-8615	2.6	42
89	Van Allen probes, NOAA, GOES, and ground observations of an intense EMIC wave event extending over 12 h in magnetic local time. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 5465-5488	2.6	105
88	Kinetic Alfvén waves and particle response associated with a shock-induced, global ULF perturbation of the terrestrial magnetosphere. *Geophysical Research Letters*, **2015**, 42, 9203-9212	4.9	21
87	Electric field structures and waves at plasma boundaries in the inner magnetosphere. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 4246-4263	2.6	61
86	Van Allen Probes observations linking radiation belt electrons to chorus waves during 2014 multiple storms. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 938-948	2.6	14
85	Van Allen Probes investigation of the large-scale duskward electric field and its role in ring current formation and plasmasphere erosion in the 1 June 2013 storm. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 4531-4543	2.6	32
84	The enhancement of cosmic radio noise absorption due to hiss-driven energetic electron precipitation during substorms. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 5393-5407	2.6	14
83	Disappearance of plasmaspheric hiss following interplanetary shock. *Geophysical Research Letters*, **2015**, 42, 3129-3140	4.9	29
82	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	2	11
81	Magnetohydrodynamic modeling of three Van Allen Probes storms in 2012 and 2013. *Annales Geophysicae*, **2015**, 33, 1037-1050	2	13

80	Modeling subauroral polarization streams during the 17 March 2013 storm. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 1738-1750	2.6	36
79	In situ observations of EMIC waves in O+ band by the Van Allen Probe A. *Geophysical Research Letters*, **2015**, 42, 1312-1317	4.9	45
78	Postmidnight depletion of the high-energy tail of the quiet plasmasphere. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 1646-1660	2.6	14
77	Evidence for injection of relativistic electrons into the Earth's outer radiation belt via intense substorm electric fields. *Geophysical Research Letters*, **2014**, 41, 1133-1141	4.9	29
76	Storm time observations of plasmasphere erosion flux in the magnetosphere and ionosphere. *Geophysical Research Letters*, **2014**, 41, 762-768	4.9	46
75	Effect of EMIC waves on relativistic and ultrarelativistic electron populations: Ground-based and Van Allen Probes observations. *Geophysical Research Letters*, **2014**, 41, 1375-1381	4.9	235
74	Chorus acceleration of radiation belt relativistic electrons during March 2013 geomagnetic storm. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 3325-3332	2.6	82
73	Prompt energization of relativistic and highly relativistic electrons during a substorm interval: Van Allen Probes observations. *Geophysical Research Letters*, **2014**, 41, 20-25	4.9	76
72	Interactions of energetic electrons with ULF waves triggered by interplanetary shock: Van Allen Probes observations in the magnetotail. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 8262-8273	2.6	47
71	Cluster observations of fast magnetosonic waves in the heliosphere current sheet. *Geophysical Research Letters*, **2014**, 41, 1398-1405	4.9	7
70	Van Allen Probe observations of periodic rising frequencies of the fast magnetosonic mode. *Geophysical Research Letters*, **2014**, 41, 8161-8168	4.9	48
69	Chorus waves and spacecraft potential fluctuations: Evidence for wave-enhanced photoelectron escape. *Geophysical Research Letters*, **2014**, 41, 236-243	4.9	8
68	Van Allen Probes observations of direct wave-particle interactions. *Geophysical Research Letters*, **2014**, 41, 1869-1875	4.9	26
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