Craig A Kletzing

List of Publications by Citations

307 papers	12,550 citations	57 h-index	98 g-index
333 ext. papers	14,275 ext. citations	4 avg, IF	6.05 L-index

#	Paper	IF	Citations
307	The Electric and Magnetic Field Instrument Suite and Integrated Science (EMFISIS) on RBSP. *Space Science Reviews*, **2013**, 179, 127-181	7.5	760
306	Rapid local acceleration of relativistic radiation-belt electrons by magnetospheric chorus. *Nature*, **2013**, 504, 411-4	50.4	481
305	Electron acceleration in the heart of the Van Allen radiation belts. *Science*, **2013**, 341, 991-4	33.3	379
304	Small Scale Alfvïic Structure in the Aurora. *Space Science Reviews*, **2000**, 92, 423-533	7.5	363
303	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
302	The FIELDS Instrument Suite on MMS: Scientific Objectives, Measurements, and Data Products. *Space Science Reviews*, **2016**, 199, 105-135	7.5	292
301	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
300	Evidence for kinetic Alfvï waves and parallel electron energization at 4ï RE altitudes in the plasma sheet boundary layer. *Journal of Geophysical Research*, **2002**, 107, SMP 24-1-SMP 24-15		229
299	Polar spacecraft based comparisons of intense electric fields and Poynting flux near and within the plasma sheet-tail lobe boundary to UVI images: An energy source for the aurora. *Journal of Geophysical Research*, **2000**, 105, 18675-18692		218
298	A long-lived relativistic electron storage ring embedded in Earth's outer Van Allen belt. *Science*, **2013**, 340, 186-90	33.3	179
297	Source and seed populations for relativistic electrons: Their roles in radiation belt changes. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 7240-7254	2.6	156
296	Hydra ïA 3-dimensional electron and ion hot plasma instrument for the POLAR spacecraft of the GGS mission. *Space Science Reviews*, **1995**, 71, 459-495	7.5	154
295	Comparisons of Polar satellite observations of solitary wave velocities in the plasma sheet boundary and the high altitude cusp to those in the auroral zone. *Geophysical Research Letters*, **1999**, 26, 425-428	4.9	153
294	Electron acceleration by kinetic Alfvï waves. *Journal of Geophysical Research*, **1994**, 99, 11095		150
293	Radiation belt electron acceleration by chorus waves during the 17 March 2013 storm. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 4681-4693	2.6	146
292	Model of magnetosheath plasma in the magnetosphere: Cusp and mantle particles at low-altitudes. *Geophysical Research Letters*, **1993**, 20, 479-482	4.9	143
291	Evolution and slow decay of an unusual narrow ring of relativistic electrons near L ~ 3.2 following the September 2012 magnetic storm. *Geophysical Research Letters*, **2013**, 40, 3507-3511	4.9	137

290	The occurrence and wave properties of H+-, He+-, and O+-band EMIC waves observed by the Van Allen Probes. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 7477-7492	2.6	133
289	Statistical properties of plasmaspheric hiss derived from Van Allen Probes data and their effects on radiation belt electron dynamics. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 3393-3405	2.6	132
288	Constructing the global distribution of chorus wave intensity using measurements of electrons by the POES satellites and waves by the Van Allen Probes. *Geophysical Research Letters*, **2013**, 40, 4526-4532	4.9	119
287	Excitation of poloidal standing Alfvén waves through drift resonance wave-particle interaction. *Geophysical Research Letters*, **2013**, 40, 4127-4132	4.9	115
286	Fine structure of large-amplitude chorus wave packets. *Geophysical Research Letters*, **2014**, 41, 293-299	4.9	109
285	Van Allen Probes observation of localized drift resonance between poloidal mode ultra-low frequency waves and 60 keV electrons. *Geophysical Research Letters*, **2013**, 40, 4491-4497	4.9	108
284	An unusual enhancement of low-frequency plasmaspheric hiss in the outer plasmasphere associated with substorm-injected electrons. *Geophysical Research Letters*, **2013**, 40, 3798-3803	4.9	105
283	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
282	Gradual diffusion and punctuated phase space density enhancements of highly relativistic electrons: Van Allen Probes observations. *Geophysical Research Letters*, **2014**, 41, 1351-1358	4.9	103
281	Direct observation of large, quasi-static, parallel electric fields in the auroral acceleration region. *Geophysical Research Letters*, **1998**, 25, 1629-1632	4.9	99
280	Energetic electron precipitation associated with pulsating aurora: EISCAT and Van Allen Probe observations. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 2754-2766	2.6	95
279	Resonant scattering of energetic electrons by unusual low-frequency hiss. *Geophysical Research Letters*, **2014**, 41, 1854-1861	4.9	95
278	Correlation of Alfvén wave Poynting flux in the plasma sheet at 4 RE with ionospheric electron energy flux. *Journal of Geophysical Research*, **2002**, 107, SMP 24-1		94
277	Solitary potential structures associated with ion and electron beams near 1RE altitude. *Journal of Geophysical Research*, **1999**, 104, 28709-28717		86
276	Competing source and loss mechanisms due to wave-particle interactions in Earth's outer radiation belt during the 30 September to 3 October 2012 geomagnetic storm. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 1960-1979	2.6	83
275	Electron scattering by magnetosonic waves in the inner magnetosphere. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 274-285	2.6	82
274	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
273	High-latitude plasma convection from Cluster EDI measurements: method and IMF-dependence. *Annales Geophysicae*, **2007**, 25, 239-253	2	80

272	Whistler anisotropy instabilities as the source of banded chorus: Van Allen Probes observations and particle-in-cell simulations. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 8288-8298	2.6	77
271	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
270	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
269	Formation of energetic electron butterfly distributions by magnetosonic waves via Landau resonance. *Geophysical Research Letters*, **2016**, 43, 3009-3016	4.9	73
268	Simulation of Van Allen Probes plasmapause encounters. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 7464-7484	2.6	72
267	New chorus wave properties near the equator from Van Allen Probes wave observations. *Geophysical Research Letters*, **2016**, 43, 4725-4735	4.9	70
266	The Electron Drift Instrument on Cluster: overview of first results. *Annales Geophysicae*, **2001**, 19, 1273-1288	1.2	69
265	Estimates of terms in Ohm's law during an encounter with an electron diffusion region. *Geophysical Research Letters*, **2016**, 43, 5918-5925	4.9	68
264	Auroral source region: Plasma properties of the high-latitude plasma sheet. *Journal of Geophysical Research*, **2003**, 108,		68
263	Van Allen Probes observations of prompt MeV radiation belt electron acceleration in nonlinear interactions with VLF chorus. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 324-339	2.6	66
262	Alfvẽ wave generated electron time dispersion. *Geophysical Research Letters*, **2001**, 28, 693-696	4.9	66
261	Global-scale coherence modulation of radiation-belt electron loss from plasmaspheric hiss. *Nature*, **2015**, 523, 193-5	50.4	65
260	Nonlinear electric field structures in the inner magnetosphere. *Geophysical Research Letters*, **2014**, 41, 5693-5701	4.9	64
259	Fine structure of plasmaspheric hiss. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 9134-9149	2.6	63
258	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
257	Modeling inward diffusion and slow decay of energetic electrons in the Earth's outer radiation belt. *Geophysical Research Letters*, **2015**, 42, 987-995	4.9	63
256	Large Alfvẽ wave power in the plasma sheet boundary layer during the expansion phase of substorms. *Geophysical Research Letters*, **2000**, 27, 3169-3172	4.9	63
255	The distribution of plasmaspheric hiss wave power with respect to plasmapause location. *Geophysical Research Letters*, **2016**, 43, 7878-7886	4.9	62

254	Electron jet of asymmetric reconnection. *Geophysical Research Letters*, **2016**, 43, 5571-5580	4.9	59
253	The dependence on geomagnetic conditions and solar wind dynamic pressure of the spatial distributions of EMIC waves observed by the Van Allen Probes. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 4362-4377	2.6	59
252	Unraveling the excitation mechanisms of highly oblique lower band chorus waves. *Geophysical Research Letters*, **2016**, 43, 8867-8875	4.9	58
251	Statistical characteristics of EMIC waves: Van Allen Probe observations. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 4400-4408	2.6	57
250	Reproducing the observed energy-dependent structure of Earth's electron radiation belts during storm recovery with an event-specific diffusion model. *Geophysical Research Letters*, **2016**, 43, 5616-5625	4.9	56
249	Evidence of stronger pitch angle scattering loss caused by oblique whistler-mode waves as compared with quasi-parallel waves. *Geophysical Research Letters*, **2014**, 41, 6063-6070	4.9	54
248	Quantitative Evaluation of Radial Diffusion and Local Acceleration Processes During GEM Challenge Events. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 1938-1952	2.6	53
247	Observations of kinetic scale field line resonances. *Geophysical Research Letters*, **2014**, 41, 209-215	4.9	52
246	A novel technique to construct the global distribution of whistler mode chorus wave intensity using low-altitude POES electron data. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 5685-5699	2.6	52
245	High-resolution in situ observations of electron precipitation-causing EMIC waves. *Geophysical Research Letters*, **2015**, 42, 9633-9641	4.9	52
244	Radiation belt electron acceleration during the 17 March 2015 geomagnetic storm: Observations and simulations. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 5520-5536	2.6	52
243	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
242	First results from the Cluster wideband plasma wave investigation. *Annales Geophysicae*, **2001**, 19, 1259-1272		51
241	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
240	Excitation of EMIC waves detected by the Van Allen Probes on 28 April 2013. *Geophysical Research Letters*, **2014**, 41, 4101-4108	4.9	50
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234	Van Allen Probe observations of periodic rising frequencies of the fast magnetosonic mode. *Geophysical Research Letters*, **2014**, 41, 8161-8168	4.9	48
233	Electron temperature and density at high latitude. *Journal of Geophysical Research*, **1998**, 103, 14837-14845		48
232	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
231	Evidence for electrostatic shocks as the source of discrete auroral arcs. *Journal of Geophysical Research*, **1983**, 88, 4105		47
230	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
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224	Broadband low-frequency electromagnetic waves in the inner magnetosphere. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 8603-8615	2.6	42
223	Intense duskside lower band chorus waves observed by Van Allen Probes: Generation and potential acceleration effect on radiation belt electrons. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 4266-4273	2.6	42
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219	Statistical distribution of EMIC wave spectra: Observations from Van Allen Probes. *Geophysical Research Letters*, **2016**, 43, 12,348	4.9	40

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217	Statistical Properties of Plasmaspheric Hiss From Van Allen Probes Observations. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 2605-2619	2.6	40
216	First evidence for chorus at a large geocentric distance as a source of plasmaspheric hiss: Coordinated THEMIS and Van Allen Probes observation. *Geophysical Research Letters*, **2015**, 42, 241-248	4.9	39
215	Measurements of the shear Alfvén wave dispersion for finite perpendicular wave number. *Physical Review Letters*, **2003**, 90, 035004	7.4	39
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205	Simulation of energy-dependent electron diffusion processes in the Earth's outer radiation belt. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 4217-4231	2.6	34
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200	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
199	Nonlinear decay of foreshock Langmuir waves in the presence of plasma inhomogeneities: Theory and Cluster observations. *Journal of Geophysical Research*, **2005**, 110,		32
198	Electron time dispersion. *Journal of Geophysical Research*, **1994**, 99, 2159		32
197	Energetic Electron Precipitation: Multievent Analysis of Its Spatial Extent During EMIC Wave Activity. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 2466-2483	2.6	31
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194	Simulations of inner magnetosphere dynamics with an expanded RAM-SCB model and comparisons with Van Allen Probes observations. *Geophysical Research Letters*, **2014**, 41, 2687-2694	4.9	30
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183	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

182	Van Allen Probes observations of direct wave-particle interactions. *Geophysical Research Letters*, **2014**, 41, 1869-1875	4.9	26
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178	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
177	Plasma convection in the magnetotail lobes: statistical results from Cluster EDI measurements. *Annales Geophysicae*, **2008**, 26, 2371-2382	2	25
176	ELF/VLF wave propagation at subauroral latitudes: Conjugate observation between the ground and Van Allen Probes A. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 5384-5393	2.6	25
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174	In situ observations of Pc1 pearl pulsations by the Van Allen Probes. *Geophysical Research Letters*, **2014**, 41, 1823-1829	4.9	24
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168	Observation of chorus waves by the Van Allen Probes: Dependence on solar wind parameters and scale size. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 7608-7621	2.6	22
167	Van Allen Probes observations of magnetic field dipolarization and its associated O+ flux variations in the inner magnetosphere at L . *Journal of Geophysical Research: Space Physics*, **2016**, 121, 7572-7589	2.6	22
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162	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
161	Low-Energy (. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 9969-9982	2.6	21
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159	The Characteristic Response of Whistler Mode Waves to Interplanetary Shocks. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 10,047	2.6	21
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156	Observations and Fokker-Planck Simulations of the L-Shell, Energy, and Pitch Angle Structure of Earth's Electron Radiation Belts During Quiet Times. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 1125-1142	2.6	21
155	Quantification of Energetic Electron Precipitation Driven by Plume Whistler Mode Waves, Plasmaspheric Hiss, and Exohiss. *Geophysical Research Letters*, **2019**, 46, 3615-3624	4.9	20
154	Rapid enhancement of low-energy (. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 6430-6443	2.6	20
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152	Applying the cold plasma dispersion relation to whistler mode chorus waves: EMFISIS wave measurements from the Van Allen Probes. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 1144-1152	2.6	20
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150	Polar observations of solitary waves at high and low altitudes and comparison to theory. *Advances in Space Research*, **2001**, 28, 1631-1641	2.4	20
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145	The Outer Radiation Belt Response to the Storm Time Development of Seed Electrons and Chorus Wave Activity During CME and CIR Driven Storms. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 10,139	2.6	19
144	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
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