Barry H Mauk

List of Publications by Year in Descending Order

311 papers	10,678 citations	55 h-index	88 g-index
355 ext. papers	11,786 ext. citations	7.1 avg, IF	5.73 L-index

#	Paper	IF	Citations
311	The Case for a New Frontiers‐class Uranus Orbiter: System Science at an Underexplored and Unique World with a Mid-scale Mission. *Planetary Science Journal*, **2022**, 3, 58	2.9	1
310	Simultaneous UV Images and High-Latitude Particle and Field Measurements During an Auroral Dawn Storm at Jupiter. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029679	2.6	0
309	A Tale of Two Radiation Belts: The Energy-Dependence of Self-Limiting Electron Space Radiation. *Geophysical Research Letters*, **2021**, 48, e2021GL095779	4.9	1
308	Are Dawn Storms Jupiter's Auroral Substorms?. *AGU Advances*, **2021**, 2, e2020AV000275	5.4	8
307	Simultaneous Observation of an Auroral Dawn Storm With the Hubble Space Telescope and Juno. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028717	2.6	2
306	Jupiter's Ion Radiation Belts Inward of Europa's Orbit. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2020JA028925	2.6	4
305	Energy Spectra Near Ganymede From Juno Data. *Geophysical Research Letters*, **2021**, 48, e2021GL093021	4.9	3
304	High Latitude Zones of GeV Heavy Ions at the Inner Edge of Jupiter's Relativistic Electron Belt. *Journal of Geophysical Research E: Planets*, **2021**, 126, e2020JE006772	4.1	2
303	Jupiter high-energy/high-latitude electron environment from Juno's JEDI and UVS science instrument background noise. *Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment*, **2021**, 1002, 165244	1.2	
302	Revealing the source of Jupiter's x-ray auroral flares. *Science Advances*, **2021**, 7,	14.3	7
301	Characteristics of Energetic Electrons Near Active Magnetotail Reconnection Sites: Statistical Evidence for Local Energization. *Geophysical Research Letters*, **2021**, 48, e2020GL090087	4.9	4
300	Characteristics of Energetic Electrons Near Active Magnetotail Reconnection Sites: Tracers of a Complex Magnetic Topology and Evidence of Localized Acceleration. *Geophysical Research Letters*, **2021**, 48, e2020GL090089	4.9	5
299	Proton Outflow Associated With Jupiter's Auroral Processes. *Geophysical Research Letters*, **2021**, 48,	4.9	3
298	Evidence for Nonadiabatic Oxygen Energization in the Near-Earth Magnetotail From MMS. *Geophysical Research Letters*, **2021**, 48, e2020GL091697	4.9	2
297	Jupiter's Double-Arc Aurora as a Signature of Magnetic Reconnection: Simultaneous Observations From HST and Juno. *Geophysical Research Letters*, **2021**, 48, e2021GL093964	4.9	0
296	Quantification of Diffuse Auroral Electron Precipitation Driven by Whistler Mode Waves at Jupiter. *Geophysical Research Letters*, **2021**, 48, e2021GL095457	4.9	1
295	Electron Partial Density and Temperature Over Jupiter's Main Auroral Emission Using Juno Observations. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029426	2.6	3

294	A Preliminary Study of Magnetosphere-Ionosphere-Thermosphere Coupling at Jupiter: Juno Multi-Instrument Measurements and Modeling Tools. *Journal of Geophysical Research: Space Physics* , **2021**, 126, e2021JA029469	2.6	2
293	Application of Cold and Hot Plasma Composition Measurements to Investigate Impacts on Dusk-Side Electromagnetic Ion Cyclotron Waves. *Journal of Geophysical Research: Space Physics*, **2021**, 126,	2.6	2
292	Energetic Electron Distributions Near the Magnetic Equator in the Jovian Plasma Sheet and Outer Radiation Belt Using Juno Observations. *Geophysical Research Letters*, **2021**, 48,	4.9	1
291	Charge-State-Dependent Energization of Suprathermal Ions During Substorm Injections Observed by MMS in the Magnetotail. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028144	2.6	3
290	First Report of Electron Measurements During a Europa Footprint Tail Crossing by Juno. *Geophysical Research Letters*, **2020**, 47, e2020GL089732	4.9	5
289	Juno Energetic Neutral Atom (ENA) Remote Measurements of Magnetospheric Injection Dynamics in Jupiter's Io Torus Regions. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA027964	2.6	8
288	The Generation of Upward-Propagating Whistler Mode Waves by Electron Beams in the Jovian Polar Regions. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA027868	2.6	8
287	Energetic Particles and Acceleration Regions Over Jupiter's Polar Cap and Main Aurora: A Broad Overview. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027699	2.6	15
286	Juno Observations of Heavy Ion Energization During Transient Dipolarizations in Jupiter Magnetotail. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA027933	2.6	5
285	Plasma Sheet Boundary Layer in Jupiter's Magnetodisk as Observed by Juno. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA027957	2.6	4
284	Energy Flux and Characteristic Energy of Electrons Over Jupiter's Main Auroral Emission. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027693	2.6	25
283	Comparative planetary ring currents **2020**, 271-307		
282	Characteristics of Escaping Magnetospheric Ions Associated With Magnetic Field Fluctuations. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027337	2.6	0
281	Jovian Auroral Ion Precipitation: X-Ray Production From Oxygen and Sulfur Precipitation. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027007	2.6	9
280	Energetic Proton Acceleration Associated With Io's Footprint Tail. *Geophysical Research Letters*, **2020**, 47, e2020GL090839	4.9	6
279	Energetic Neutral Atoms From Jupiter's Polar Regions. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028697	2.6	1
278	Heavy Ion Charge States in Jupiter's Polar Magnetosphere Inferred From Auroral Megavolt Electric Potentials. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028052	2.6	10
277	Microscopic, Multipoint Characterization of Foreshock Bubbles With Magnetospheric Multiscale (MMS). *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027707	2.6	25

276	Reconnection- and Dipolarization-Driven Auroral Dawn Storms and Injections. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2019JA027663	2.6	11
275	Magnetospheric Studies: A Requirement for Addressing Interdisciplinary Mysteries in the Ice Giant Systems. *Space Science Reviews*, **2020**, 216, 1	7.5	10
274	Method to Derive Ion Properties From Juno JADE Including Abundance Estimates for O+ and S2+. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2018JA026169	2.6	18
273	Europa Neutral Torus Confirmation and Characterization Based on Observations and Modeling. *Astrophysical Journal*, **2019**, 871, 69	4.7	12
272	High-Resolution Measurements of the Cross-Shock Potential, Ion Reflection, and Electron Heating at an Interplanetary Shock by MMS. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 3961-3978	2.6	28
271	In situ spacecraft observations of a structured electron diffusion region during magnetopause reconnection. *Physical Review E*, **2019**, 99, 043204	2.4	9
270	Jovian Injections Observed at High Latitude. *Geophysical Research Letters*, **2019**, 46, 9397-9404	4.9	12
269	Delayed Arrival of Energetic Solar Particles at MMS on 16 July 2017. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 2711-2719	2.6	1
268	Drift-Dispersed Flux Dropouts of Energetic Electrons Observed in Earth's Middle Magnetosphere by the Magnetospheric Multiscale (MMS) Mission. *Geophysical Research Letters*, **2019**, 46, 3069-3078	4.9	5
267	Investigation of Mass-/Charge-Dependent Escape of Energetic Ions Across the Magnetopauses of Earth and Jupiter. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 5539-5567	2.6	12
266	Birkeland currents in Jupiter's magnetosphere observed by the polar-orbiting Juno spacecraft. *Nature Astronomy*, **2019**, 3, 904-909	12.1	23
265	High-Energy (>10 MeV) Oxygen and Sulfur Ions Observed at Jupiter From Pulse Width Measurements of the JEDI Sensors. *Geophysical Research Letters*, **2019**, 46, 10959-10966	4.9	2
264	On the Relation Between Jovian Aurorae and the Loading/Unloading of the Magnetic Flux: Simultaneous Measurements From Juno, Hubble Space Telescope, and Hisaki. *Geophysical Research Letters*, **2019**, 46, 11632-11641	4.9	21
263	MMS Measurements and Modeling of Peculiar Electromagnetic Ion Cyclotron Waves. *Geophysical Research Letters*, **2019**, 46, 11622-11631	4.9	6
262	Io's Effect on Energetic Charged Particles as Seen in Juno Data. *Geophysical Research Letters*, **2019**, 46, 13615-13620	4.9	9
261	Contemporaneous Observations of Jovian Energetic Auroral Electrons and Ultraviolet Emissions by the Juno Spacecraft. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 8298-8317	2.6	16
260	Comparing Electron Energetics and UV Brightness in Jupiter's Northern Polar Region During Juno Perijove 5. *Geophysical Research Letters*, **2019**, 46, 19-27	4.9	14
259	Pitch Angle Scattering of Upgoing Electron Beams in Jupiter's Polar Regions by Whistler Mode Waves. *Geophysical Research Letters*, **2018**, 45, 1246-1252	4.9	13

258	The Properties of Lion Roars and Electron Dynamics in Mirror Mode Waves Observed by the Magnetospheric MultiScale Mission. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 93-103	2.6	18
257	Space Weather Operation at KASI With Van Allen Probes Beacon Signals. *Space Weather*, **2018**, 16, 108-120	3.7	
256	Intervals of Intense Energetic Electron Beams Over Jupiter's Poles. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 1989	2.6	21
255	Diverse Electron and Ion Acceleration Characteristics Observed Over Jupiter's Main Aurora. *Geophysical Research Letters*, **2018**, 45, 1277-1285	4.9	35
254	Jupiter's Aurora Observed With HST During Juno Orbits 3 to 7. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 3299-3319	2.6	29
253	Effects in the Near-Magnetopause Magnetosheath Elicited by Large-Amplitude Alfvnic Fluctuations Terminating in a Field and Flow Discontinuity. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 8983-9004	2.6	1
252	Multiscale Currents Observed by MMS in the Flow Braking Region. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 1260-1278	2.6	27
251	Precipitating Electron Energy Flux and Characteristic Energies in Jupiter's Main Auroral Region as Measured by Juno/JEDI. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 7554-7567	2.6	33
250	Electron Acceleration to MeV Energies at Jupiter and Saturn. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 9110-9129	2.6	24
249	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. *Science*, **2018**, 362, 1391-1395	33.3	139
248	Magnetotail Hall Physics in the Presence of Cold Ions. *Geophysical Research Letters*, **2018**, 45, 10,941	4.9	9
247	The Acceleration of Electrons to High Energies Over the Jovian Polar Cap via Whistler Mode Wave-Particle Interactions. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 7523-7533	2.6	15
246	A radiation belt of energetic protons located between Saturn and its rings. *Science*, **2018**, 362,	33.3	19
245	Wave-Particle Interaction of Alfvn Waves in Jupiter's Magnetosphere: Auroral and Magnetospheric Particle Acceleration. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 9560-9573	2.6	37
244	In Situ Observations Connected to the Io Footprint Tail Aurora. *Journal of Geophysical Research E: Planets*, **2018**, 123, 3061-3077	4.1	27
243	Whistler Mode Waves Associated With Broadband Auroral Electron Precipitation at Jupiter. *Geophysical Research Letters*, **2018**, 45, 9372-9379	4.9	13
242	Autogenous and efficient acceleration of energetic ions upstream of Earth's bow shock. *Nature*, **2018**, 561, 206-210	50.4	32
241	Juno observations of spot structures and a split tail in Io-induced aurorae on Jupiter. *Science*, **2018**, 361, 774-777	33.3	27

240	Jupiter's magnetosphere and aurorae observed by the Juno spacecraft during its first polar orbits. *Science*, **2017**, 356, 826-832	33.3	93
239	Infrared observations of Jovian aurora from Juno's first orbits: Main oval and satellite footprints. *Geophysical Research Letters*, **2017**, 44, 5308-5316	4.9	20
238	Plasma waves in Jupiter's high-latitude regions: Observations from the Juno spacecraft. *Geophysical Research Letters*, **2017**, 44, 4447-4454	4.9	25
237	Plasma measurements in the Jovian polar region with Juno/JADE. *Geophysical Research Letters*, **2017**, 44, 7122-7130	4.9	30
236	Juno/JEDI observations of 0.01 to >10 ́MeV energetic ions in the Jovian auroral regions: Anticipating a source for polar X-ray emission. *Geophysical Research Letters*, **2017**, 44, 6476-6482	4.9	14
235	Plasma environment at the dawn flank of Jupiter's magnetosphere: Juno arrives at Jupiter. *Geophysical Research Letters*, **2017**, 44, 4432-4438	4.9	21
234	Hot flow anomaly observed at Jupiter's bow shock. *Geophysical Research Letters*, **2017**, 44, 8107-8112	4.9	12
233	A heavy ion and proton radiation belt inside of Jupiter's rings. *Geophysical Research Letters*, **2017**, 44, 5259-5268	4.9	20
232	Searching for low-altitude magnetic field anomalies by using observations of the energetic particle loss cone on JUNO. *Geophysical Research Letters*, **2017**, 44, 4472-4480	4.9	2
231	Juno observations of energetic charged particles over Jupiter's polar regions: Analysis of monodirectional and bidirectional electron beams. *Geophysical Research Letters*, **2017**, 44, 4410-4418	4.9	74
230	Observation and interpretation of energetic ion conics in Jupiter's polar magnetosphere. *Geophysical Research Letters*, **2017**, 44, 4419-4425	4.9	18
229	Radiation near Jupiter detected by Juno/JEDI during PJ1 and PJ3. *Geophysical Research Letters*, **2017**, 44, 4426-4431	4.9	8
228	Preliminary JIRAM results from Juno polar observations: 2. Analysis of the Jupiter southern H3+ emissions and comparison with the north aurora. *Geophysical Research Letters*, **2017**, 44, 4633-4640	4.9	16
227	Preliminary JIRAM results from Juno polar observations: 1. Methodology and analysis applied to the Jovian northern polar region. *Geophysical Research Letters*, **2017**, 44, 4625-4632	4.9	14
226	Electron butterfly distributions at particular magnetic latitudes observed during Juno's perijove pass. *Geophysical Research Letters*, **2017**, 44, 4489-4496	4.9	6
225	Response of Jupiter's auroras to conditions in the interplanetary medium as measured by the Hubble Space Telescope and Juno. *Geophysical Research Letters*, **2017**, 44, 7643-7652	4.9	52
224	Morphology of the UV aurorae Jupiter during Juno's first perijove observations. *Geophysical Research Letters*, **2017**, 44, 4463-4471	4.9	43
223	Electron beams and loss cones in the auroral regions of Jupiter. *Geophysical Research Letters*, **2017**, 44, 7131-7139	4.9	51

222	Juno-UVS approach observations of Jupiter's auroras. *Geophysical Research Letters*, **2017**, 44, 7668-7675	4.9	19
221	Preliminary JIRAM results from Juno polar observations: 3. Evidence of diffuse methane presence in the Jupiter auroral regions. *Geophysical Research Letters*, **2017**, 44, 4641-4648	4.9	11
220	MMS observation of inverse energy dispersion in shock drift accelerated ions. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 3232-3246	2.6	1
219	Accelerated flows at Jupiter's magnetopause: Evidence for magnetic reconnection along the dawn flank. *Geophysical Research Letters*, **2017**, 44, 4401-4409	4.9	31
218	A new view of Jupiter's auroral radio spectrum. *Geophysical Research Letters*, **2017**, 44, 7114-7121	4.9	27
217	Multipoint Observations of Energetic Particle Injections and Substorm Activity During a Conjunction Between Magnetospheric Multiscale (MMS) and Van Allen Probes. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 11,481-11,504	2.6	23
216	Understanding the Origin of Jupiter's Diffuse Aurora Using Juno's First Perijove Observations. *Geophysical Research Letters*, **2017**, 44, 10,162-10,170	4.9	12
215	Spatial Distribution and Properties of 0.1–100 keV Electrons in Jupiter's Polar Auroral Region. *Geophysical Research Letters*, **2017**, 44, 9199-9207	4.9	30
214	Examining Coherency Scales, Substructure, and Propagation of Whistler Mode Chorus Elements With Magnetospheric Multiscale (MMS). *Journal of Geophysical Research: Space Physics*, **2017**, 122, 11,201-11,226	2.6	13
213	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. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 12,236-12,257	2.6	24
212	The MMS Dayside Magnetic Reconnection Locations During Phase 1 and Their Relation to the Predictions of the Maximum Magnetic Shear Model. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 11,991-12,005	2.6	16
211	The Kappa-Shaped Particle Spectra in Planetary Magnetospheres **2017**, 481-522		6
210	Near-Earth plasma sheet boundary dynamics during substorm dipolarization. *Earth, Planets and Space*, **2017**, 69, 129	2.9	14
209	Dominance of high-energy (>150 keV) heavy ion intensities in Earth's middle to outer magnetosphere. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 9282-9293	2.6	14
208	Energetic particle signatures of magnetic field-aligned potentials over Jupiter's polar regions. *Geophysical Research Letters*, **2017**, 44, 8703-8711	4.9	35
207	Discrete and broadband electron acceleration in Jupiter's powerful aurora. *Nature*, **2017**, 549, 66-69	50.4	57
206	Storm time empirical model of O+ and O6+ distributions in the magnetosphere. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 8353-8374	2.6	15
205	Statistical analysis of MMS observations of energetic electron escape observed at/beyond the dayside magnetopause. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 9440-9463	2.6	11

204	Energetic particle loss through the magnetopause: A combined global MHD and test-particle study. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 9329-9343	2.6	27
203	The Jupiter Energetic Particle Detector Instrument (JEDI) Investigation for the Juno Mission. *Space Science Reviews*, **2017**, 213, 289-346	7.5	113
202	Magnetospheric Science Objectives of the Juno Mission. *Space Science Reviews*, **2017**, 213, 219-287	7.5	138
201	The Fly□ Eye Energetic Particle Spectrometer (FEEPS) Sensors for the Magnetospheric Multiscale (MMS) Mission **2017**, 307-327		
200	The Energetic Particle Detector (EPD) Investigation and the Energetic Ion Spectrometer (EIS) for the Magnetospheric Multiscale (MMS) Mission **2017**, 469-512		
199	The Fly□ Eye Energetic Particle Spectrometer (FEEPS) Sensors for the Magnetospheric Multiscale (MMS) Mission. *Space Science Reviews*, **2016**, 199, 309-329	7.5	57
198	Inverse energy dispersion of energetic ions observed in the magnetosheath. *Geophysical Research Letters*, **2016**, 43, 7338-7347	4.9	5
197	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. *Geophysical Research Letters*, **2016**, 43, 7279-7286	4.9	38
196	Electrodynamic context of magnetopause dynamics observed by magnetospheric multiscale. *Geophysical Research Letters*, **2016**, 43, 5988-5996	4.9	8
195	Energy limits of electron acceleration in the plasma sheet during substorms: A case study with the Magnetospheric Multiscale (MMS) mission. *Geophysical Research Letters*, **2016**, 43, 7785-7794	4.9	33
194	The permeability of the magnetopause to a multispecies substorm injection of energetic particles. *Geophysical Research Letters*, **2016**, 43, 9453-9460	4.9	7
193	Dipolarization in the inner magnetosphere during a geomagnetic storm on 7 October 2015. *Geophysical Research Letters*, **2016**, 43, 9397-9405	4.9	5
192	Microinjections observed by MMS FEEPS in the dusk to midnight region. *Geophysical Research Letters*, **2016**, 43, 6078-6086	4.9	7
191	Charge states of energetic oxygen and sulfur ions in Jupiter's magnetosphere. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 2264-2273	2.6	29
190	Comparison of Magnetospheric Multiscale ion jet signatures with predicted reconnection site locations at the magnetopause. *Geophysical Research Letters*, **2016**, 43, 5997-6004	4.9	16
189	A telescopic and microscopic examination of acceleration in the June 2015 geomagnetic storm: Magnetospheric Multiscale and Van Allen Probes study of substorm particle injection. *Geophysical Research Letters*, **2016**, 43, 6051-6059	4.9	21
188	The Energetic Particle Detector (EPD) Investigation and the Energetic Ion Spectrometer (EIS) for the Magnetospheric Multiscale (MMS) Mission. *Space Science Reviews*, **2016**, 199, 471-514	7.5	87
187	The "Puck" energetic charged particle detector: Design, heritage, and advancements. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 7900-7913	2.6	13

186	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. *Geophysical Research Letters*, **2016**, 43, 3042-3050	4.9	65
185	Electron jet of asymmetric reconnection. *Geophysical Research Letters*, **2016**, 43, 5571-5580	4.9	59
184	Energetic electron acceleration observed by MMS in the vicinity of an X-line crossing. *Geophysical Research Letters*, **2016**, 43, 7356-7363	4.9	18
183	Electron-scale measurements of magnetic reconnection in space. *Science*, **2016**, 352, aaf2939	33.3	418
182	The response time of the magnetopause reconnection location to changes in the solar wind: MMS case study. *Geophysical Research Letters*, **2016**, 43, 4673-4682	4.9	18
181	Observations of energetic particle escape at the magnetopause: Early results from the MMS Energetic Ion Spectrometer (EIS). *Geophysical Research Letters*, **2016**, 43, 5960-5968	4.9	22
180	Transient, small-scale field-aligned currents in the plasma sheet boundary layer during storm time substorms. *Geophysical Research Letters*, **2016**, 43, 4841-4849	4.9	23
179	Modeling magnetospheric energetic particle escape across Earth's magnetopause as observed by the MMS mission. *Geophysical Research Letters*, **2016**, 43, 4081-4088	4.9	15
178	Kinetic evidence of magnetic reconnection due to Kelvin-Helmholtz waves. *Geophysical Research Letters*, **2016**, 43, 5635-5643	4.9	36
177	The substructure of a flux transfer event observed by the MMS spacecraft. *Geophysical Research Letters*, **2016**, 43, 9434-9443	4.9	21
176	Injection, Interchange, and Reconnection. *Geophysical Monograph Series*, **2015**, 327-343	1.1	28
175	Rotationally driven 'zebra stripes' in Earth's inner radiation belt. *Nature*, **2014**, 507, 338-40	50.4	27
174	The Evolving Space Weather System: Van Allen Probes Contribution. *Space Weather*, **2014**, 12, 577-581	3.7	3
173	Using the kappa function to investigate hot plasma in the magnetospheres of the giant planets. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 8426-8447	2.6	13
172	The role of small-scale ion injections in the buildup of Earth's ring current pressure: Van Allen Probes observations of the 17 March 2013 storm. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 7327-7342	2.6	75
171	Magnetic reconnection, buoyancy, and flapping motions in magnetotail explosions. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 7151-7168	2.6	57
170	Comparative investigation of the energetic ion spectra comprising the magnetospheric ring currents of the solar system. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 9729-9746	2.6	25
169	Journal Special Collection Explores Early Results From the Van Allen Probes Mission. *Eos*, **2014**, 95, 112-113	1.1	2

168	Magnetospheric Science Objectives of the Juno Mission **2014**, 39-107		1
167	The Engineering Radiation Monitor for the Radiation Belt Storm Probes Mission. *Space Science Reviews*, **2013**, 179, 485-502	7.5	19
166	Early Results From the Engineering Radiation Monitor (ERM) and Solar Cell Monitor on the Van Allen Probes Mission. *IEEE Transactions on Nuclear Science*, **2013**, 60, 4053-4058	1.7	9
165	Comparative Auroral Physics: Earth and Other Planets. *Geophysical Monograph Series*, **2013**, 3-26	1.1	18
164	Radiation Belts of the Solar System and Universe. *Geophysical Monograph Series*, **2013**, 405-414	1.1	
163	Science Objectives and Rationale for the Radiation Belt Storm Probes Mission. *Space Science Reviews*, **2013**, 179, 3-27	7.5	686
162	Macroscopic Ion Acceleration Associated with the Formation of the Ring Current in the Earth's Magnetosphere. *Geophysical Monograph Series*, **2013**, 351-361	1.1	18
161	Instrumentation for Energetic Neutral Atom Imaging of Magnetospheres. *Geophysical Monograph Series*, **2013**, 165-170	1.1	11
160	X-Ray Images of an Auroral Break-Up. *Geophysical Monograph Series*, **2013**, 129-135	1.1	2
159	Macroscopic Magnetospheric Particle Acceleration. *Geophysical Monograph Series*, **2013**, 319-332	1.1	1
158	Analysis of EMIC-wave-moderated flux limitation of measured energetic ion spectra in multispecies magnetospheric plasmas. *Geophysical Research Letters*, **2013**, 40, 3804-3808	4.9	9
157	The Jupiter Energetic Particle Detector Instrument (JEDI) Investigation for the Juno Mission **2013**, 471-528		1
156	The Engineering Radiation Monitor for the Radiation Belt Storm Probes Mission **2012**, 485-502		5
155	Science Objectives and Rationale for the Radiation Belt Storm Probes Mission **2012**, 3-27		28
154	The auroral footprint of Enceladus on Saturn. *Nature*, **2011**, 472, 331-3	50.4	77
153	Radiation belt storm probes: Resolving fundamental physics with practical consequences. *Journal of Atmospheric and Solar-Terrestrial Physics*, **2011**, 73, 1417-1424	2	22
152	Azimuthal plasma flow in the Kronian magnetosphere. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		31
151	Saturn's periodic magnetic field perturbations caused by a rotating partial ring current. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	35

150	Electron radiation belts of the solar system. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		81
149	Kronos: exploring the depths of Saturn with probes and remote sensing through an international mission. *Experimental Astronomy*, **2009**, 23, 947-976	1.3	8
148	Cassini evidence for rapid interchange transport at Saturn. *Planetary and Space Science*, **2009**, 57, 1779-1784	1.7	44
147	Ion conics and electron beams associated with auroral processes on Saturn. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		72
146	Energetic particle pressure in Saturn's magnetosphere measured with the Magnetospheric Imaging Instrument on Cassini. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		79
145	Fundamental Plasma Processes in Saturn's Magnetosphere **2009**, 281-331		57
144	Electron circulation in Saturn's magnetosphere. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		51
143	Understanding the global evolution of Saturn's ring current. *Geophysical Research Letters*, **2008**, 35,	4.9	30
142	Energetic electrons injected into Saturn's neutral gas cloud. *Geophysical Research Letters*, **2007**, 34,	4.9	46
141	Electron sources in Saturn's magnetosphere. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		76
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