Barry H Mauk

List of Publications by Year
in descending order

323 papers	13,045 citations	25034 57 h-index	37204 96 g-index
355 all docs	355 docs citations	355 times ranked	3881 citing authors

#	Article	IF	Citations
1	Science Objectives and Rationale for the Radiation Belt Storm Probes Mission. Space Science Reviews, 2013, 179, 3-27.	8.1	841
2	Electron-scale measurements of magnetic reconnection in space. Science, 2016, 352, aaf2939.	12.6	545
3	Magnetosphere Imaging Instrument (MIMI) on the Cassini Mission to Saturn/Titan. Space Science Reviews, 2004, 114, 233-329.	8.1	354
4	Electron-scale dynamics of the diffusion region during symmetric magnetic reconnection in space. Science, 2018, 362, 1391-1395.	12.6	221
5	Energetic ion characteristics and neutral gas interactions in Jupiter's magnetosphere. Journal of Geophysical Research, 2004, 109, .	3.3	214
6	The Energetic Particle and Plasma Spectrometer Instrument on the MESSENGER Spacecraft. Space Science Reviews, 2007, 131, 523-556.	8.1	203
7	Correlation ofKpwith the substorm-injected plasma boundary. Journal of Geophysical Research, 1974, 79, 3193-3196.	3.3	198
8	Dynamics of Saturn's Magnetosphere from MIMI During Cassini's Orbital Insertion. Science, 2005, 307, 1270-1273.	12.6	166
9	Magnetospheric Science Objectives of the Juno Mission. Space Science Reviews, 2017, 213, 219-287.	8.1	163
10	An experimental test of the electromagnetic ion cyclotron instability within the earthâ€™s magnetosphere. Physics of Fluids, 1980, 23, 2111.	1.4	152
11	The Jupiter Energetic Particle Detector Instrument (JEDI) Investigation for the Juno Mission. Space Science Reviews, 2017, 213, 289-346.	8.1	148
12	Xâ€ray enhancements detected during thunderstorm and lightning activities. Geophysical Research Letters, 1981, 8, 1176-1179.	4.0	125
13	Energetic ion acceleration in Saturn's magnetotail: Substorms at Saturn?. Geophysical Research Letters, 2005, 32, .	4.0	124
14	Characterization of geostationary particle signatures based on the â€˜Injection Boundaryâ€™ Model. Journal of Geophysical Research, 1983, 88, 3055-3071.	3.3	123
15	Electron precipitation of evening diffuse aurora and its conjugate electron fluxes near the magnetospheric equator. Journal of Geophysical Research, 1979, 84, 2545-2558.	3.3	121
16	Electron Beams and Ion Composition Measured at Io and in Its Torus. Science, 1996, 274, 401-403.	12.6	120
17	The MESSENGER mission to Mercury: scientific payload. Planetary and Space Science, 2001, 49, 1467-1479.	1.7	118
18	AlfvÃ©n waves generated by an inverted plasma energy distribution. Nature, 1978, 275, 43-45.	27.8	116

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19	Energetic neutral atoms from a trans-Europa gas torus at Jupiter. Nature, 2003, 421, 920-922.	27.8	116
20	Quantitative modeling of the â€œconvection surgeâ€•mechanism of ion acceleration. Journal of Geophysical Research, 1986, 91, 13423-13431.	3.3	113
21	Helium cyclotron resonance within the Earth's magnetosphere. Geophysical Research Letters, 1981, 8, 103-106.	4.0	111
22	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.	8.1	111
23	Energetic particle injections in Saturn's magnetosphere. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	109
24	Jupiterâ€™s magnetosphere and aurorae observed by the Juno spacecraft during its first polar orbits. Science, 2017, 356, 826-832.	12.6	109
25	Electron radiation belts of the solar system. Journal of Geophysical Research, 2010, 115, .	3.3	105
26	The hot plasma and radiation environment of the Uranian magnetosphere. Journal of Geophysical Research, 1987, 92, 15283-15308.	3.3	104
27	Storm-like dynamics of Jupiter's inner and middle magnetosphere. Journal of Geophysical Research, 1999, 104, 22759-22778.	3.3	101
28	Transient aurora on Jupiter from injections of magnetospheric electrons. Nature, 2002, 415, 1003-1005.	27.8	98
29	The Magnetosphere of Uranus: Hot Plasma and Radiation Environment. Science, 1986, 233, 97-102.	12.6	97
30	Hot Plasma and Energetic Particles in Neptune's Magnetosphere. Science, 1989, 246, 1483-1489.	12.6	96
31	Equatorial X-ray Emissions: Implications for Jupiter's High Exospheric Temperatures. Science, 1997, 276, 104-108.	12.6	91
32	Implications of Jovian X-ray emission for magnetosphere-ionosphere coupling. Journal of Geophysical Research, 2003, 108, .	3.3	91
33	The role of smallâ€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.	2.4	91
34	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.	4.0	90
35	A compressional Pc4 pulsation observed by three satellites in geostationary orbit near local midnight. Planetary and Space Science, 1979, 27, 821-840.	1.7	89
36	The Flyâ€™s Eye Energetic Particle Spectrometer (FEEPS) Sensors for the Magnetospheric Multiscale (MMS) Mission. Space Science Reviews, 2016, 199, 309-329.	8.1	89

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37	Helium resonance and dispersion effects on geostationary Alfven/ion cyclotron waves. Journal of Geophysical Research, 1982, 87, 9107-9119.	3.3	88
38	The ion environment near Europa and its role in surface energetics. Geophysical Research Letters, 2002, 29, 18-1-18-4.	4.0	87
39	Nonâ€‹b›E Ã— B‹/b› ordered ion beams upstream of the Earth's bow shock. Journal of Geophysical Research, 1981, 86, 4415-4424.	3.3	85
40	ATS-6 UCSD Auroral Particles Experiment. IEEE Transactions on Aerospace and Electronic Systems, 1975, AES-11, 1125-1130.	4.7	83
41	Electron sources in Saturn's magnetosphere. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	83
42	Energetic particle pressure in Saturn's magnetosphere measured with the Magnetospheric Imaging Instrument on Cassini. Journal of Geophysical Research, 2009, 114, .	3.3	82
43	The auroral footprint of Enceladus on Saturn. Nature, 2011, 472, 331-333.	27.8	82
44	Ion conics and electron beams associated with auroral processes on Saturn. Journal of Geophysical Research, 2009, 114, .	3.3	81
45	Currents and associated electron scattering and bouncing near the diffusion region at Earth's magnetopause. Geophysical Research Letters, 2016, 43, 3042-3050.	4.0	81
46	Discrete and broadband electron acceleration in Jupiterâ€™s powerful aurora. Nature, 2017, 549, 66-69.	27.8	79
47	Ion sputtering and surface erosion at Europa. Geophysical Research Letters, 1998, 25, 829-832.	4.0	71
48	Acceleration of oxygen ions of ionospheric origin in the near-Earth magnetotail during substorms. Journal of Geophysical Research, 2000, 105, 7669-7677.	3.3	71
49	Periodic intensity variations in global ENA images of Saturn. Geophysical Research Letters, 2005, 32, .	4.0	71
50	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.	4.0	68
51	Energetic particle signatures at Ganymede: Implications for Ganymede's magnetic field. Geophysical Research Letters, 1997, 24, 2163-2166.	4.0	66
52	Electron jet of asymmetric reconnection. Geophysical Research Letters, 2016, 43, 5571-5580.	4.0	66
53	Hot ions in Jupiter's magnetodisc: A model for Voyager 2 low-energy charged particle measurements. Journal of Geophysical Research, 1995, 100, 19473.	3.3	64
54	Magnetic reconnection, buoyancy, and flapping motions in magnetotail explosions. Journal of Geophysical Research: Space Physics, 2014, 119, 7151-7168.	2.4	64

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55	Waveâ€Particle Interaction of AlfvÃ©n Waves in Jupiter's Magnetosphere: Auroral and Magnetospheric Particle Acceleration. Journal of Geophysical Research: Space Physics, 2018, 123, 9560-9573.	2.4	64
56	Energy-time dispersed charged particle signatures of dynamic injections in Jupiter's inner magnetosphere. Geophysical Research Letters, 1997, 24, 2949-2952.	4.0	61
57	Electron beams and loss cones in the auroral regions of Jupiter. Geophysical Research Letters, 2017, 44, 7131-7139.	4.0	61
58	Fundamental Plasma Processes in Saturn's Magnetosphere. , 2009, , 281-331.		59
59	Magnetospheric electric fields and currents. Reviews of Geophysics, 1987, 25, 541-554.	23.0	55
60	Properties of Ganymede's magnetosphere as revealed by energetic particle observations. Journal of Geophysical Research, 1998, 103, 17523-17534.	3.3	55
61	Energetic particle observations near Ganymede. Journal of Geophysical Research, 1999, 104, 17459-17469.	3.3	55
62	MESSENGER: Exploring Mercuryâ€™s Magnetosphere. Space Science Reviews, 2007, 131, 133-160.	8.1	55
63	Electron circulation in Saturn's magnetosphere. Journal of Geophysical Research, 2008, 113, .	3.3	55
64	Morphology of the UV aurorae Jupiter during Juno's first perijove observations. Geophysical Research Letters, 2017, 44, 4463-4471.	4.0	54
65	Electromagnetic wave energization of heavy ions by the electric â€œphase bunchingâ€•process. Geophysical Research Letters, 1982, 9, 1163-1166.	4.0	53
66	Jupiter's Aurora Observed With HST During Juno Orbits 3 to 7. Journal of Geophysical Research: Space Physics, 2018, 123, 3299-3319.	2.4	53
67	Juno observations of spot structures and a split tail in Io-induced aurorae on Jupiter. Science, 2018, 361, 774-777.	12.6	53
68	Science Objectives and Rationale for the Radiation Belt Storm Probes Mission. , 2012, , 3-27.		53
69	Energetic neutral atom imaging by the Astrid microsatellite. Advances in Space Research, 1997, 20, 1055-1060.	2.6	51
70	The Saturnian plasma sheet as revealed by energetic particle measurements. Geophysical Research Letters, 2005, 32, .	4.0	51
71	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.	4.0	51
72	Hot plasma parameters of Jupiter's inner magnetosphere. Journal of Geophysical Research, 1996, 101, 7685-7695.	3.3	50

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73	Energetic Particles in the Jovian Magnetotail. Science, 2007, 318, 220-222.	12.6	50
74	Dynamical injections as the source of near geostationary quiet time particle spatial boundaries. Journal of Geophysical Research, 1983, 88, 10011-10024.	3.3	49
75	Energetic electron beams and trapped electrons at Io. Journal of Geophysical Research, 1999, 104, 14739-14753.	3.3	49
76	Multispacecraft analysis of dipolarization fronts and associated whistler wave emissions using MMS data. Geophysical Research Letters, 2016, 43, 7279-7286.	4.0	49
77	Diverse Electron and Ion Acceleration Characteristics Observed Over Jupiter's Main Aurora. Geophysical Research Letters, 2018, 45, 1277-1285.	4.0	49
78	Radial force balance within Jupiter's dayside magnetosphere. Journal of Geophysical Research, 1987, 92, 9931-9941.	3.3	48
79	A model for the azimuthal plasma velocity in Saturn's magnetosphere. Journal of Geophysical Research, 2004, 109, .	3.3	48
80	In Situ Observations Connected to the Io Footprint Tail Aurora. Journal of Geophysical Research E: Planets, 2018, 123, 3061-3077.	3.6	48
81	Upstream particle spatial gradients and plasma waves. Journal of Geophysical Research, 1981, 86, 4343-4354.	3.3	47
82	Magnetospheric and Plasma Science with Cassini-Huygens. Space Science Reviews, 2002, 104, 253-346.	8.1	47
83	Cassini evidence for rapid interchange transport at Saturn. Planetary and Space Science, 2009, 57, 1779-1784.	1.7	47
84	Kinetic evidence of magnetic reconnection due to Kelvinâ€Helmholtz waves. Geophysical Research Letters, 2016, 43, 5635-5643.	4.0	47
85	Autogenous and efficient acceleration of energetic ions upstream of Earthâ€™s bow shock. Nature, 2018, 561, 206-210.	27.8	47
86	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.	2.4	47
87	Energetic ion and electron phase space densities in the magnetosphere of Uranus. Journal of Geophysical Research, 1987, 92, 15315-15328.	3.3	46
88	Energetic electrons injected into Saturn's neutral gas cloud. Geophysical Research Letters, 2007, 34, .	4.0	46
89	Electron Acceleration to MeV Energies at Jupiter and Saturn. Journal of Geophysical Research: Space Physics, 2018, 123, 9110-9129.	2.4	46
90	Upstream gyrophase bunched ions: A mechanism for creation at the bow shook and the growth of velocity space structure through gyrophase mixing. Journal of Geophysical Research, 1983, 88, 9093-9100.	3.3	44

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91	Trapped electrons in Ganymede's magnetic field. Geophysical Research Letters, 1997, 24, 2953-2956.	4.0	44
92	A nebula of gases from Io surrounding Jupiter. Nature, 2002, 415, 994-996.	27.8	44
93	Energetic Neutral Atom Emissions from Titan Interaction with Saturn's Magnetosphere. Science, 2005, 308, 989-992.	12.6	44
94	Europa's nearâ€surface radiation environment. Geophysical Research Letters, 2007, 34, .	4.0	44
95	Frequency gap formation in electromagnetic cyclotron wave distributions. Geophysical Research Letters, 1983, 10, 635-638.	4.0	43
96	Rotationally driven â€˜zebra stripesâ€™ in Earthâ€™s inner radiation belt. Nature, 2014, 507, 338-340.	27.8	42
97	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.	2.4	42
98	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.	2.4	42
99	Pressure anisotropy and radial stress balance in the Jovian neutral sheet. Journal of Geophysical Research, 1991, 96, 21135-21140.	3.3	41
100	Energetic particle signatures of magnetic fieldâ€aligned potentials over Jupiter's polar regions. Geophysical Research Letters, 2017, 44, 8703-8711.	4.0	41
101	Plasma Injection During Substorms. Physica Scripta, 1987, T18, 128-139.	2.5	40
102	The magnetosphere of Neptune: Hot plasmas and energetic particles. Journal of Geophysical Research, 1991, 96, 19061-19084.	3.3	40
103	Comprehensive analysis of electron observations at Saturn: Voyager 1 and 2. Journal of Geophysical Research, 1996, 101, 15211-15232.	3.3	40
104	Anti-planetward auroral electron beams at Saturn. Nature, 2006, 439, 699-702.	27.8	40
105	Birkeland currents in Jupiterâ€™s magnetosphere observed by the polar-orbiting Juno spacecraft. Nature Astronomy, 2019, 3, 904-909.	10.1	40
106	Microscopic, Multipoint Characterization of Foreshock Bubbles With Magnetospheric Multiscale (MMS). Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027707.	2.4	40
107	Charge states of energetic oxygen and sulfur ions in Jupiter's magnetosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 2264-2273.	2.4	38
108	Energetic particle loss through the magnetopause: A combined global MHD and testâ€particle study. Journal of Geophysical Research: Space Physics, 2017, 122, 9329-9343.	2.4	38

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109	Characteristics of magnetospheric particle injection deduced from events observed on August 18, 1974. Journal of Geophysical Research, 1977, 82, 5208-5214.	3.3	37
110	Equatorial electron beams and auroral structuring at Jupiter. Journal of Geophysical Research, 2007, 112, .	3.3	37
111	Saturn's periodic magnetic field perturbations caused by a rotating partial ring current. Geophysical Research Letters, 2010, 37, .	4.0	37
112	Energy Flux and Characteristic Energy of Electrons Over Jupiter's Main Auroral Emission. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027693.	2.4	37
113	The magnetotail of Uranus. Journal of Geophysical Research, 1987, 92, 15354-15366.	3.3	36
114	A convected K distribution model for hot ions in the Jovian magnetodisc. Geophysical Research Letters, 1992, 19, 1435-1438.	4.0	36
115	ENA imaging from the Swedish micro satellite Astrid during the magnetic storm of 8 February, 1995. Advances in Space Research, 1997, 20, 1061-1066.	2.6	36
116	Accelerated flows at Jupiter's magnetopause: Evidence for magnetic reconnection along the dawn flank. Geophysical Research Letters, 2017, 44, 4401-4409.	4.0	36
117	Highâ€Resolution Measurements of the Crossâ€Shock Potential, Ion Reflection, and Electron Heating at an Interplanetary Shock by MMS. Journal of Geophysical Research: Space Physics, 2019, 124, 3961-3978.	2.4	36
118	Particle and field stress balance within a planetary magnetosphere. Journal of Geophysical Research, 1985, 90, 8253-8264.	3.3	35
119	Plasma measurements in the Jovian polar region with Juno/JADE. Geophysical Research Letters, 2017, 44, 7122-7130.	4.0	35
120	A new view of Jupiter's auroral radio spectrum. Geophysical Research Letters, 2017, 44, 7114-7121.	4.0	35
121	Intervals of Intense Energetic Electron Beams Over Jupiter's Poles. Journal of Geophysical Research: Space Physics, 2018, 123, 1989-1999.	2.4	35
122	Pitch angle diffusion at Jupiter's moon Ganymede. Journal of Geophysical Research, 1997, 102, 24283-24287.	3.3	34
123	Spatial Distribution and Properties of 0.1â€“100ÂkeV Electrons in Jupiter's Polar Auroral Region. Geophysical Research Letters, 2017, 44, 9199-9207.	4.0	34
124	Generation of macroscopic magneticâ€fieldâ€aligned electric fields by the convection surge ion acceleration mechanism. Journal of Geophysical Research, 1989, 94, 8911-8920.	3.3	33
125	Galileo-measured depletion of near-Io hot ring current plasmas since the Voyager epoch. Journal of Geophysical Research, 1998, 103, 4715-4722.	3.3	33
126	Galileo energetic particles detector measurements of hot ions in the neutral sheet region of Jupiter's magnetodisk. Geophysical Research Letters, 1999, 26, 5-8.	4.0	33

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127	The substructure of a flux transfer event observed by the MMS spacecraft. Geophysical Research Letters, 2016, 43, 9434-9443.	4.0	33
128	Adiabatic vs. nonâ€adiabatic particle distributions during convection surges. Geophysical Research Letters, 1993, 20, 177-180.	4.0	32
129	Energetic ion sputtering effects at Ganymede. Geophysical Research Letters, 1997, 24, 2631-2634.	4.0	32
130	Azimuthal plasma flow in the Kronian magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	32
131	Multiscale Currents Observed by MMS in the Flow Braking Region. Journal of Geophysical Research: Space Physics, 2018, 123, 1260-1278.	2.4	32
132	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.	4.0	32
133	Understanding Io's space environment interaction: Recent energetic electron measurements from Galileo. Journal of Geophysical Research, 2001, 106, 26195-26208.	3.3	31
134	Lower Hybrid Drift Waves and Electromagnetic Electron Spaceâ€Phase Holes Associated With Dipolarization Fronts and Fieldâ€Aligned Currents Observed by the Magnetospheric Multiscale Mission During a Substorm. Journal of Geophysical Research: Space Physics, 2017, 122, 12,236.	2.4	31
135	Method to Derive Ion Properties From Juno JADE Including Abundance Estimates for O⁺ and S²⁺. Journal of Geophysical Research: Space Physics, 2020, 125, e2018JA026169.	2.4	31
136	Understanding the global evolution of Saturn's ring current. Geophysical Research Letters, 2008, 35, .	4.0	30
137	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.	2.4	30
138	Transient, smallâ€scale fieldâ€aligned currents in the plasma sheet boundary layer during storm time substorms. Geophysical Research Letters, 2016, 43, 4841-4849.	4.0	30
139	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.	4.0	30
140	Infrared observations of Jovian aurora from Juno's first orbits: Main oval and satellite footprints. Geophysical Research Letters, 2017, 44, 5308-5316.	4.0	30
141	A multi-instrument study of a Jovian magnetospheric disturbance. Journal of Geophysical Research, 2001, 106, 29883-29898.	3.3	29
142	Storm-time convection electric field in the near-Earth plasma sheet. Journal of Geophysical Research, 2005, 110, .	3.3	29
143	Europa's FUV auroral tail on Jupiter. Geophysical Research Letters, 2006, 33, .	4.0	29
144	Energetic neutral atoms from Jupiter measured with the Cassini magnetospheric imaging instrument: Time dependence and composition. Journal of Geophysical Research, 2004, 109, .	3.3	28

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145	A heavy ion and proton radiation belt inside of Jupiter's rings. Geophysical Research Letters, 2017, 44, 5259-5268.	4.0	28
146	Plasma waves in Jupiter's highâ€latitude regions: Observations from the Juno spacecraft. Geophysical Research Letters, 2017, 44, 4447-4454.	4.0	27
147	A radiation belt of energetic protons located between Saturn and its rings. Science, 2018, 362, .	12.6	27
148	Reconnectionâ€and Dipolarizationâ€Driven Auroral Dawn Storms and Injections. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027663.	2.4	27
149	Magnetosphere-ionosphere coupling at earth, jupiter, and beyond. Geophysical Monograph Series, 2002, , 97-114.	0.1	26
150	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.	2.4	26
151	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.	2.4	26
152	Europa Neutral Torus Confirmation and Characterization Based on Observations and Modeling. Astrophysical Journal, 2019, 871, 69.	4.5	26
153	Ion and electron energy dispersion features detected by ISEE 1. Journal of Geophysical Research, 1985, 90, 4079-4089.	3.3	25
154	Leakage of energetic particles from Jupiter's dusk magnetosphere: Dual spacecraft observations. Geophysical Research Letters, 2002, 29, 26-1-26-4.	4.0	25
155	Junoâ€UVS approach observations of Jupiter's auroras. Geophysical Research Letters, 2017, 44, 7668-7675.	4.0	25
156	Are Dawn Storms Jupiter's Auroral Substorms?. AGU Advances, 2021, 2, e2020AV000275.	5.4	25
157	Revealing the source of Jupiterâ€™s x-ray auroral flares. Science Advances, 2021, 7, .	10.3	25
158	Auroral X ray images. Journal of Geophysical Research, 1981, 86, 6827-6835.	3.3	24
159	Plasma environment at the dawn flank of Jupiter's magnetosphere: Juno arrives at Jupiter. Geophysical Research Letters, 2017, 44, 4432-4438.	4.0	24
160	Plasma injection and diamagnetism. Journal of Geophysical Research, 1979, 84, 2049-2056.	3.3	23
161	Comparative Auroral Physics: Earth and Other Planets. Geophysical Monograph Series, 0, , 3-26.	0.1	23
162	Observations of energetic particle escape at the magnetopause: Early results from the MMS Energetic Ion Spectrometer (EIS). Geophysical Research Letters, 2016, 43, 5960-5968.	4.0	23

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163	Observations of energetic ion enhancements and fast neutrals upstream and downstream of Uranus' bow shock by the Voyager 2 spacecraft. Planetary and Space Science, 1988, 36, 311-328.	1.7	22
164	Lowâ€altitude observations of the evolution of substorm injection boundaries. Journal of Geophysical Research, 1993, 98, 5815-5838.	3.3	22
165	Radiation belt storm probes: Resolving fundamental physics with practical consequences. Journal of Atmospheric and Solar-Terrestrial Physics, 2011, 73, 1417-1424.	1.6	22
166	The Engineering Radiation Monitor for the Radiation Belt Storm Probes Mission. Space Science Reviews, 2013, 179, 485-502.	8.1	22
167	Macroscopic Ion Acceleration Associated with the Formation of the Ring Current in the Earth's Magnetosphere. Geophysical Monograph Series, 0, , 351-361.	0.1	22
168	Contemporaneous Observations of Jovian Energetic Auroral Electrons and Ultraviolet Emissions by the Juno Spacecraft. Journal of Geophysical Research: Space Physics, 2019, 124, 8298-8317.	2.4	22
169	Temperature characteristics of electron beams and ambient particles. Journal of Geophysical Research, 1979, 84, 2651-2654.	3.3	21
170	Energetic electron acceleration observed by MMS in the vicinity of an Xâ€line crossing. Geophysical Research Letters, 2016, 43, 7356-7363.	4.0	21
171	The response time of the magnetopause reconnection location to changes in the solar wind: MMS case study. Geophysical Research Letters, 2016, 43, 4673-4682.	4.0	21
172	Observation and interpretation of energetic ion conics in Jupiter's polar magnetosphere. Geophysical Research Letters, 2017, 44, 4419-4425.	4.0	21
173	The Acceleration of Electrons to High Energies Over the Jovian Polar Cap via Whistler Mode Waveâ€Particle Interactions. Journal of Geophysical Research: Space Physics, 2018, 123, 7523-7533.	2.4	21
174	Whistler Mode Waves Associated With Broadband Auroral Electron Precipitation at Jupiter. Geophysical Research Letters, 2018, 45, 9372-9379.	4.0	21
175	Heavy Ion Charge States in Jupiter's Polar Magnetosphere Inferred From Auroral Megavolt Electric Potentials. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028052.	2.4	21
176	Energetic nitrogen ions within the inner magnetosphere of Saturn. Journal of Geophysical Research, 2006, 111, .	3.3	20
177	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.	2.4	20
178	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.	4.0	20
179	Jovian Auroral Ion Precipitation: Xâ€Ray Production From Oxygen and Sulfur Precipitation. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027007.	2.4	20
180	Modeling magnetospheric energetic particle escape across Earth's magnetopause as observed by the MMS mission. Geophysical Research Letters, 2016, 43, 4081-4088.	4.0	19

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181	Comparison of Magnetospheric Multiscale ion jet signatures with predicted reconnection site locations at the magnetopause. Geophysical Research Letters, 2016, 43, 5997-6004.	4.0	19
182	Corotation anisotropies in Saturn's magnetosphere. Journal of Geophysical Research, 1983, 88, 8937-8946.	3.3	18
183	<title>Instrument requirements for imaging the magnetosphere in extreme ultraviolet and energetic neutral atoms derived from computer-simulated images</title>. , 1992, 1744, 19.		18
184	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.	4.0	18
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