S J Bolton

List of Publications by Year in descending order

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256 papers	9,508 citations	50276 46 h-index	54911 84 g-index
277 all docs	277 docs citations	277 times ranked	3600 citing authors

#	Article	IF	Citations
1	Flow patterns of Jupiter's south polar region. Icarus, 2022, 372, 114742.	2.5	3
2	A New Model of Jupiter's Magnetic Field at the Completion of Juno's Prime Mission. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	60
3	Revelations on Jupiter's formation, evolution and interior: Challenges from Juno results. Icarus, 2022, 378, 114937.	2.5	29
4	Jupiterâ€™s inhomogeneous envelope. Astronomy and Astrophysics, 2022, 662, A18.	5.1	31
5	A Comprehensive Set of Juno In Situ and Remote Sensing Observations of the Ganymede Auroral Footprint. Geophysical Research Letters, 2022, 49, .	4.0	8
6	Closed Fluxtubes and Dispersive Proton Conics at Jupiter's Polar Cap. Geophysical Research Letters, 2022, 49, .	4.0	7
7	Waterâ€Group Pickup Ions From Europaâ€Genic Neutrals Orbiting Jupiter. Geophysical Research Letters, 2022, 49, .	4.0	16
8	Loss of Energetic Ions Comprising the Ring Current Populations of Jupiter's Middle and Inner Magnetosphere. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	4
9	Ganymede's Ionosphere Observed by a Dualâ€Frequency Radio Occultation With Juno. Geophysical Research Letters, 2022, 49, .	4.0	9
10	Juno Plasma Wave Observations at Ganymede. Geophysical Research Letters, 2022, 49, .	4.0	13
11	Differential Rotation in Jupiter's Interior Revealed by Simultaneous Inversion for the Magnetic Field and Zonal Flux Velocity. Journal of Geophysical Research E: Planets, 2022, 127, .	3.6	16
12	Investigating the Occurrence of Magnetic Reconnection at Jupiter's Dawn Magnetopause During the Juno Era. Geophysical Research Letters, 2022, 49, .	4.0	7
13	Jupiter's Temperature Structure: A Reassessment of the Voyager Radio Occultation Measurements. Planetary Science Journal, 2022, 3, 159.	3.6	11
14	Plasma Observations During the 7 June 2021 Ganymede Flyby From the Jovian Auroral Distributions Experiment (JADE) on Juno. Geophysical Research Letters, 2022, 49, .	4.0	16
15	Distribution of Interplanetary Dust Detected by the Juno Spacecraft and Its Contribution to the Zodiacal Light. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006509.	3.6	18
16	Proton Outflow Associated With Jupiter's Auroral Processes. Geophysical Research Letters, 2021, 48, .	4.0	13
17	Lowâ€Latitude Whistlerâ€Mode and Higherâ€Latitude Zâ€Mode Emission at Jupiter Observed by Juno. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028742.	2.4	10
18	Lightning Generation in Moist Convective Clouds and Constraints on the Water Abundance in Jupiter. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006504.	3.6	5

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19	Are Dawn Storms Jupiter's Auroral Substorms?. AGU Advances, 2021, 2, e2020AV000275.	5.4	25
20	Detection of a Bolide in Jupiter's Atmosphere With Juno UVS. Geophysical Research Letters, 2021, 48, e2020GL091797.	4.0	9
21	On the clouds and ammonia in Jupiterâ€™s upper troposphere from Juno JIRAM reflectivity observations. Monthly Notices of the Royal Astronomical Society, 2021, 503, 4892-4907.	4.4	5
22	Detection and Characterization of Circular Expanding UVâ€Emissions Observed in Jupiter's Polar Auroral Regions. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028971.	2.4	4
23	Constraints on the Latitudinal Profile of Jupiter's Deep Jets. Geophysical Research Letters, 2021, 48, e2021GL092912.	4.0	13
24	Energy Spectra Near Ganymede From Juno Data. Geophysical Research Letters, 2021, 48, e2021GL093021.	4.0	10
25	Determination of Jupiterâ€™s Mass from Juno Radio Tracking Data. Journal of Guidance, Control, and Dynamics, 2021, 44, 1062-1067.	2.8	3
26	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.	3.6	3
27	Revealing the source of Jupiterâ€™s x-ray auroral flares. Science Advances, 2021, 7, .	10.3	25
28	Jupiter's Doubleâ€Arc Aurora as a Signature of Magnetic Reconnection: Simultaneous Observations From HST and Juno. Geophysical Research Letters, 2021, 48, e2021GL093964.	4.0	3
29	Survey of Juno Observations in Jupiter's Plasma Disk: Density. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029446.	2.4	15
30	The Highâ€Latitude Extension of Jupiter's Io Torus: Electron Densities Measured by Juno Waves. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029195.	2.4	12
31	Oscillations and Stability of the Jupiter Polar Cyclones. Geophysical Research Letters, 2021, 48, e2021GL094235.	4.0	11
32	Meridional Variations of C₂H₂ in Jupiter's Stratosphere From Juno UVS Observations. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006928.	3.6	5
33	Observation of Kolmogorov Turbulence in the Jovian Magnetosheath From JADE Data. Geophysical Research Letters, 2021, 48, e2021GL095006.	4.0	5
34	Quantification of Diffuse Auroral Electron Precipitation Driven by Whistler Mode Waves at Jupiter. Geophysical Research Letters, 2021, 48, e2021GL095457.	4.0	12
35	Electron Partial Density and Temperature Over Jupiter's Main Auroral Emission Using Juno Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029426.	2.4	11
36	A Preliminary Study of Magnetosphereâ€Ionosphereâ€Thermosphere Coupling at Jupiter: Juno Multiâ€Instrument Measurements and Modeling Tools. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029469.	2.4	11

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37	Morphology of the Auroral Tail of Io, Europa, and Ganymede From JIRAM Lâ€Band Imager. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029450.	2.4	15
38	Jupiter's Overturning Circulation: Breaking Waves Take the Place of Solid Boundaries. Geophysical Research Letters, 2021, 48, e2021GL095756.	4.0	11
39	Evidence for Multiple Ferrelâ€Like Cells on Jupiter. Geophysical Research Letters, 2021, 48, e2021GL095651.	4.0	18
40	Jupiter's Temperate Belt/Zone Contrasts Revealed at Depth by Juno Microwave Observations. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006858.	3.6	17
41	The depth of Jupiterâ€™s Great Red Spot constrained by Juno gravity overflights. Science, 2021, 374, 964-968.	12.6	18
42	Microwave observations reveal the deep extent and structure of Jupiterâ€™s atmospheric vortices. Science, 2021, 374, 968-972.	12.6	23
43	Simultaneous UV Images and Highâ€Latitude Particle and Field Measurements During an Auroral Dawn Storm at Jupiter. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029679.	2.4	3
44	Analysis of Whistlerâ€Mode and Zâ€Mode Emission in the Juno Primary Mission. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029885.	2.4	5
45	Quasilinear model of Jovian whistler mode emission. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029930.	2.4	1
46	Local Time Dependence of Jupiter's Polar Auroral Emissions Observed by Juno UVS. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006954.	3.6	9
47	Theory of Figures to the Seventh Order and the Interiors of Jupiter and Saturn. Planetary Science Journal, 2021, 2, 241.	3.6	26
48	Energetic Electron Distributions Near the Magnetic Equator in the Jovian Plasma Sheet and Outer Radiation Belt Using Juno Observations. Geophysical Research Letters, 2021, 48, .	4.0	6
49	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
50	A mascon approach to estimating the depth of Jupiterâ€™s Great Red Spot with Juno gravity measurements. Planetary and Space Science, 2020, 181, 104781.	1.7	5
51	Infrared observations of Io from Juno. Icarus, 2020, 341, 113607.	2.5	23
52	Proton Acceleration by Io's AlfvÃ©nic Interaction. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027314.	2.4	18
53	A New Framework to Explain Changes in Io's Footprint Tail Electron Fluxes. Geophysical Research Letters, 2020, 47, e2020GL089267.	4.0	25
54	Where Is the Io Plasma Torus? A Comparison of Observations by Juno Radio Occultations to Predictions From Jovian Magnetic Field Models. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027633.	2.4	9

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55	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
56	Angular Dependence and Spatial Distribution of Jupiter's Centimeterâ€Wave Thermal Emission From Juno's Microwave Radiometer. Earth and Space Science, 2020, 7, e2020EA001254.	2.6	12
57	Residual Study: Testing Jupiter Atmosphere Models Against Juno MWR Observations. Earth and Space Science, 2020, 7, e2020EA001229.	2.6	3
58	Waveâ€Particle Interactions Associated With Io's Auroral Footprint: Evidence of AlfvÃ©n, Ion Cyclotron, and Whistler Modes. Geophysical Research Letters, 2020, 47, e2020GL088432.	4.0	34
59	Turbulence Power Spectra in Regions Surrounding Jupiter's South Polar Cyclones From Juno/JIRAM. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006096.	3.6	8
60	Highâ€Spatiotemporal Resolution Observations of Jupiter Lightningâ€Induced Radio Pulses Associated With Sferics and Thunderstorms. Geophysical Research Letters, 2020, 47, e2020GL088397.	4.0	3
61	Storms and the Depletion of Ammonia in Jupiter: I. Microphysics of â€œMushballsâ€. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006403.	3.6	29
62	Storms and the Depletion of Ammonia in Jupiter: II. Explaining the Juno Observations. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006404.	3.6	24
63	Small lightning flashes from shallow electrical storms on Jupiter. Nature, 2020, 584, 55-58.	27.8	27
64	Reconnectionâ€and Dipolarizationâ€Driven Auroral Dawn Storms and Injections. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027663.	2.4	27
65	Mapping Io's Surface Composition With Juno/JIRAM. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006522.	3.6	8
66	Possible Transient Luminous Events Observed in Jupiter's Upper Atmosphere. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006659.	3.6	13
67	Observations and Electron Density Retrievals of Jupiter's Discrete Auroral Arcs Using the Juno Microwave Radiometer. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006293.	3.6	4
68	Jupiter's Equatorial Plumes and Hot Spots: Spectral Mapping from Gemini/TEXES and Juno/MWR. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006399.	3.6	13
69	Infrared Observations of Ganymede From the Jovian InfraRed Auroral Mapper on Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006508.	3.6	16
70	First Report of Electron Measurements During a Europa Footprint Tail Crossing by Juno. Geophysical Research Letters, 2020, 47, e2020GL089732.	4.0	17
71	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.	2.4	11
72	The Generation of Upwardâ€Propagating Whistler Mode Waves by Electron Beams in the Jovian Polar Regions. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027868.	2.4	11

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73	A Survey of Smallâ€Scale Waves and Waveâ€Like Phenomena in Jupiter's Atmosphere Detected by JunoCam. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006369.	3.6	7
74	Twoâ€Year Observations of the Jupiter Polar Regions by JIRAM on Board Juno. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006098.	3.6	24
75	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
76	Plasma Sheet Boundary Layer in Jupiter's Magnetodisk as Observed by Juno. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027957.	2.4	7
77	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
78	Magnetotail Reconnection at Jupiter: A Survey of Juno Magnetic Field Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027486.	2.4	21
79	Comparison of the Deep Atmospheric Dynamics of Jupiter and Saturn in Light of the Juno and Cassini Gravity Measurements. Space Science Reviews, 2020, 216, 1.	8.1	45
80	Juno Waves Detection of Dust Impacts Near Jupiter. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006367.	3.6	8
81	AlfvÃ©nic Acceleration Sustains Ganymede's Footprint Tail Aurora. Geophysical Research Letters, 2020, 47, e2019GL086527.	4.0	25
82	On the Spatial Distribution of Minor Species in Jupiter's Troposphere as Inferred From Juno JIRAM Data. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006206.	3.6	14
83	The water abundance in Jupiterâ€™s equatorial zone. Nature Astronomy, 2020, 4, 609-616.	10.1	96
84	Survey of Ion Properties in Jupiter's Plasma Sheet: Juno JADEâ€Ÿ Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027696.	2.4	36
85	Jupiter's Gravity Field Halfway Through the Juno Mission. Geophysical Research Letters, 2020, 47, e2019GL086572.	4.0	79
86	Juno In Situ Observations Above the Jovian Equatorial Ionosphere. Geophysical Research Letters, 2020, 47, e2020GL087623.	4.0	5
87	Energetic Proton Acceleration Associated With Io's Footprint Tail. Geophysical Research Letters, 2020, 47, e2020GL090839.	4.0	16
88	Energetic Neutral Atoms From Jupiter's Polar Regions. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028697.	2.4	2
89	Jovian Injections Observed at High Latitude. Geophysical Research Letters, 2019, 46, 9397-9404.	4.0	17
90	AlfvÃ©nic Fluctuations Associated With Jupiter's Auroral Emissions. Geophysical Research Letters, 2019, 46, 7157-7165.	4.0	42

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91	Jovian Highâ€Latitude Ionospheric Ions: Juno In Situ Observations. Geophysical Research Letters, 2019, 46, 8663-8670.	4.0	16
92	Investigation of Massâ€/Chargeâ€Dependent Escape of Energetic Ions Across the Magnetopauses of Earth and Jupiter. Journal of Geophysical Research: Space Physics, 2019, 124, 5539-5567.	2.4	15
93	Birkeland currents in Jupiterâ€™s magnetosphere observed by the polar-orbiting Juno spacecraft. Nature Astronomy, 2019, 3, 904-909.	10.1	40
94	Junoâ€UVS Observation of the Io Footprint During Solar Eclipse. Journal of Geophysical Research: Space Physics, 2019, 124, 5184-5199.	2.4	19
95	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
96	A solution of Jupiterâ€™s gravitational field from Juno data with the orbit14 software. Monthly Notices of the Royal Astronomical Society, 2019, 490, 766-772.	4.4	12
97	Evidence for low density holes in Jupiterâ€™s ionosphere. Nature Communications, 2019, 10, 2751.	12.8	4
98	Time variation of Jupiterâ€™s internal magnetic field consistent with zonal wind advection. Nature Astronomy, 2019, 3, 730-735.	10.1	46
99	Determining the Depth of Jupiterâ€™s Great Red Spot with Juno: A Slepian Approach. Astrophysical Journal Letters, 2019, 874, L24.	8.3	13
100	Serendipitous infrared observations of Europa by Juno/JIRAM. Icarus, 2019, 328, 1-13.	2.5	15
101	Probing Jovian Broadband Kilometric Radio Sources Tied to the Ultraviolet Main Auroral Oval With Juno. Geophysical Research Letters, 2019, 46, 571-579.	4.0	10
102	In-flight Characterization and Calibration of the Juno-ultraviolet Spectrograph (Juno-UVS). Astronomical Journal, 2019, 157, 90.	4.7	18
103	Io's Effect on Energetic Charged Particles as Seen in Juno Data. Geophysical Research Letters, 2019, 46, 13615-13620.	4.0	12
104	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
105	Survey of Jupiter's Dawn Magnetosheath Using Juno. Journal of Geophysical Research: Space Physics, 2019, 124, 9106-9123.	2.4	16
106	Comparing Electron Energetics and UV Brightness in Jupiter's Northern Polar Region During Juno Perijove 5. Geophysical Research Letters, 2019, 46, 19-27.	4.0	18
107	Clusters of cyclones encircling Jupiterâ€™s poles. Nature, 2018, 555, 216-219.	27.8	90
108	A suppression of differential rotation in Jupiterâ€™s deep interior. Nature, 2018, 555, 227-230.	27.8	165

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109	Measurement of Jupiterâ€™s asymmetric gravity field. Nature, 2018, 555, 220-222.	27.8	177
110	Jupiterâ€™s atmospheric jet streams extend thousands of kilometres deep. Nature, 2018, 555, 223-226.	27.8	189
111	Pitch Angle Scattering of Upgoing Electron Beams in Jupiter's Polar Regions by Whistler Mode Waves. Geophysical Research Letters, 2018, 45, 1246-1252.	4.0	17
112	A New Model of Jupiter's Magnetic Field From Juno's First Nine Orbits. Geophysical Research Letters, 2018, 45, 2590-2596.	4.0	258
113	Intervals of Intense Energetic Electron Beams Over Jupiter's Poles. Journal of Geophysical Research: Space Physics, 2018, 123, 1989-1999.	2.4	35
114	Diverse Electron and Ion Acceleration Characteristics Observed Over Jupiter's Main Aurora. Geophysical Research Letters, 2018, 45, 1277-1285.	4.0	49
115	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
116	Bar Code Events in the Junoâ€UVS Data: Signature â^¼10ÂMeV Electron Microbursts at Jupiter. Geophysical Research Letters, 2018, 45, 12,108.	4.0	14
117	The Rich Dynamics of Jupiterâ€™s Great Red Spot from JunoCam: Juno Images. Astronomical Journal, 2018, 156, 162.	4.7	19
118	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
119	In Situ Observations Connected to the Io Footprint Tail Aurora. Journal of Geophysical Research E: Planets, 2018, 123, 3061-3077.	3.6	48
120	Juno Constraints on the Formation of Jupiter's Magnetospheric Cushion Region. Geophysical Research Letters, 2018, 45, 9427-9434.	4.0	6
121	A complex dynamo inferred from the hemispheric dichotomy of Jupiterâ€™s magnetic field. Nature, 2018, 561, 76-78.	27.8	64
122	Whistler Mode Waves Associated With Broadband Auroral Electron Precipitation at Jupiter. Geophysical Research Letters, 2018, 45, 9372-9379.	4.0	21
123	Juno observations of spot structures and a split tail in Io-induced aurorae on Jupiter. Science, 2018, 361, 774-777.	12.6	53
124	First Estimate of Wind Fields in the Jupiter Polar Regions From JIRAMâ€Juno Images. Journal of Geophysical Research E: Planets, 2018, 123, 1511-1524.	3.6	24
125	Observation of Electron Conics by Juno: Implications for Radio Generation and Acceleration Processes. Geophysical Research Letters, 2018, 45, 9408-9416.	4.0	19
126	Jupiter Lightningâ€Induced Whistler and Sferic Events With Waves and MWR During Juno Perijoves. Geophysical Research Letters, 2018, 45, 7268-7276.	4.0	11

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127	Discovery of rapid whistlers close to Jupiter implying lightning rates similar to those on Earth. Nature Astronomy, 2018, 2, 544-548.	10.1	27
128	Prevalent lightning sferics at 600 megahertz near Jupiterâ€™s poles. Nature, 2018, 558, 87-90.	27.8	52
129	In-flight characterization and calibration of the Juno-Ultraviolet Spectrograph (Juno-UVS). , 2018, , .		2
130	Junocam: Junoâ€™s Outreach Camera. Space Science Reviews, 2017, 213, 475-506.	8.1	42
131	Cassini finds molecular hydrogen in the Enceladus plume: Evidence for hydrothermal processes. Science, 2017, 356, 155-159.	12.6	396
132	The first closeâ€up images of Jupiter's polar regions: Results from the Juno mission JunoCam instrument. Geophysical Research Letters, 2017, 44, 4599-4606.	4.0	29
133	Multipleâ€wavelength sensing of Jupiter during the Juno mission's first perijove passage. Geophysical Research Letters, 2017, 44, 4607-4614.	4.0	14
134	Ioâ€Jupiter decametric arcs observed by Juno/Waves compared to ExPRES simulations. Geophysical Research Letters, 2017, 44, 9225-9232.	4.0	22
135	Statistical study of latitudinal beaming of Jupiter's decametric radio emissions using Juno. Geophysical Research Letters, 2017, 44, 4584-4590.	4.0	7
136	The distribution of ammonia on Jupiter from a preliminary inversion of Juno microwave radiometer data. Geophysical Research Letters, 2017, 44, 5317-5325.	4.0	108
137	Comparing Jupiter interior structure models to Juno gravity measurements and the role of a dilute core. Geophysical Research Letters, 2017, 44, 4649-4659.	4.0	265
138	Juno's first glimpse of Jupiter's complexity. Geophysical Research Letters, 2017, 44, 7663-7667.	4.0	22
139	Jupiterâ€™s interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. Science, 2017, 356, 821-825.	12.6	229
140	Jupiterâ€™s magnetosphere and aurorae observed by the Juno spacecraft during its first polar orbits. Science, 2017, 356, 826-832.	12.6	109
141	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
142	Plasma waves in Jupiter's highâ€latitude regions: Observations from the Juno spacecraft. Geophysical Research Letters, 2017, 44, 4447-4454.	4.0	27
143	Observations of interplanetary dust by the Juno magnetometer investigation. Geophysical Research Letters, 2017, 44, 4701-4708.	4.0	9
144	Preliminary results on the composition of Jupiter's troposphere in hot spot regions from the JIRAM/Juno instrument. Geophysical Research Letters, 2017, 44, 4615-4624.	4.0	20

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145	Jupiter gravity field estimated from the first two Juno orbits. Geophysical Research Letters, 2017, 44, 4694-4700.	4.0	74
146	The effect of differential rotation on Jupiter's lowâ€degree even gravity moments. Geophysical Research Letters, 2017, 44, 5960-5968.	4.0	25
147	Plasma measurements in the Jovian polar region with Juno/JADE. Geophysical Research Letters, 2017, 44, 7122-7130.	4.0	35
148	Juno/JEDI observations of 0.01 to >10ÂMeV energetic ions in the Jovian auroral regions: Anticipating a source for polar Xâ€ray emission. Geophysical Research Letters, 2017, 44, 6476-6482.	4.0	16
149	Plasma environment at the dawn flank of Jupiter's magnetosphere: Juno arrives at Jupiter. Geophysical Research Letters, 2017, 44, 4432-4438.	4.0	24
150	Hot flow anomaly observed at Jupiter's bow shock. Geophysical Research Letters, 2017, 44, 8107-8112.	4.0	17
151	First look at Jupiter's synchrotron emission from Juno's perspective. Geophysical Research Letters, 2017, 44, 8676-8684.	4.0	10
152	A heavy ion and proton radiation belt inside of Jupiter's rings. Geophysical Research Letters, 2017, 44, 5259-5268.	4.0	28
153	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.	4.0	3
154	Generation of the Jovian hectometric radiation: First lessons from Juno. Geophysical Research Letters, 2017, 44, 4439-4446.	4.0	38
155	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
156	Observation and interpretation of energetic ion conics in Jupiter's polar magnetosphere. Geophysical Research Letters, 2017, 44, 4419-4425.	4.0	21
157	Latitudinal beaming of Jovian decametric radio emissions as viewed from Juno and the NanÃ§ay Decameter Array. Geophysical Research Letters, 2017, 44, 4455-4462.	4.0	11
158	Radiation near Jupiter detected by Juno/JEDI during PJ1 and PJ3. Geophysical Research Letters, 2017, 44, 4426-4431.	4.0	10
159	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
160	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
161	Characterization of the white ovals on Jupiter's southern hemisphere using the first data by the Juno/JIRAM instrument. Geophysical Research Letters, 2017, 44, 4660-4668.	4.0	15
162	Electron butterfly distributions at particular magnetic latitudes observed during Juno's perijove pass. Geophysical Research Letters, 2017, 44, 4489-4496.	4.0	6

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163	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
164	Observations of MeV electrons in Jupiter's innermost radiation belts and polar regions by the Juno radiation monitoring investigation: Perijoves 1 and 3. Geophysical Research Letters, 2017, 44, 4481-4488.	4.0	29
165	Morphology of the UV aurorae Jupiter during Juno's first perijove observations. Geophysical Research Letters, 2017, 44, 4463-4471.	4.0	54
166	Variability of Jupiter's IR H₃⁺ aurorae during Juno approach. Geophysical Research Letters, 2017, 44, 4513-4522.	4.0	14
167	Jovian bow shock and magnetopause encounters by the Juno spacecraft. Geophysical Research Letters, 2017, 44, 4506-4512.	4.0	30
168	Electron beams and loss cones in the auroral regions of Jupiter. Geophysical Research Letters, 2017, 44, 7131-7139.	4.0	61
169	Junoâ€UVS approach observations of Jupiter's auroras. Geophysical Research Letters, 2017, 44, 7668-7675.	4.0	25
170	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.	4.0	13
171	MWR: Microwave Radiometer for the Juno Mission to Jupiter. Space Science Reviews, 2017, 213, 139-185.	8.1	64
172	Accelerated flows at Jupiter's magnetopause: Evidence for magnetic reconnection along the dawn flank. Geophysical Research Letters, 2017, 44, 4401-4409.	4.0	36
173	A new view of Jupiter's auroral radio spectrum. Geophysical Research Letters, 2017, 44, 7114-7121.	4.0	35
174	Understanding the Origin of Jupiter's Diffuse Aurora Using Juno's First Perijove Observations. Geophysical Research Letters, 2017, 44, 10,162.	4.0	17
175	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
176	Analysis of IR-bright regions of Jupiter in JIRAM-Juno data: Methods and validation of algorithms. Journal of Quantitative Spectroscopy and Radiative Transfer, 2017, 202, 200-209.	2.3	8
177	Energetic particle signatures of magnetic fieldâ€aligned potentials over Jupiter's polar regions. Geophysical Research Letters, 2017, 44, 8703-8711.	4.0	41
178	Discrete and broadband electron acceleration in Jupiterâ€™s powerful aurora. Nature, 2017, 549, 66-69.	27.8	79
179	Implications of the ammonia distribution on Jupiter from 1 to 100Âbars as measured by the Juno microwave radiometer. Geophysical Research Letters, 2017, 44, 7676-7685.	4.0	31
180	The Juno Gravity Science Instrument. Space Science Reviews, 2017, 213, 205-218.	8.1	32

#	Article	IF	Citations
181	The Juno Mission. Space Science Reviews, 2017, 213, 5-37.	8.1	222
182	Directionâ€finding measurements of Jovian lowâ€frequency radio components by Juno near Perijove 1. Geophysical Research Letters, 2017, 44, 6508-6516.	4.0	14
183	Juno celebrates a year at Jupiter. Nature Astronomy, 2017, 1, .	10.1	2
184	The Juno Radiation Monitoring (RM) Investigation. Space Science Reviews, 2017, 213, 507-545.	8.1	29
185	High-Precision Laboratory Measurements Supporting Retrieval of Water Vapor, Gaseous Ammonia, and Aqueous Ammonia Clouds with the Juno Microwave Radiometer (MWR). Space Science Reviews, 2017, 213, 187-204.	8.1	5
186	Juno observations of largeâ€scale compressions of Jupiter's dawnside magnetopause. Geophysical Research Letters, 2017, 44, 7559-7568.	4.0	20
187	Editorial: Topical Collection of the Juno Mission Science Objectives, Instruments, and Implementation. Space Science Reviews, 2017, 213, 1-3.	8.1	8
188	Magnetospheric Science Objectives of the Juno Mission. Space Science Reviews, 2017, 213, 219-287.	8.1	163
189	MWR: Microwave Radiometer for the Juno Mission to Jupiter. , 2017, , 123-169.		0
190	The Juno Gravity Science Instrument. , 2017, , 109-122.		2
191	The Juno Mission. , 2017, , 5-37.		4
192	The Juno Radiation Monitoring (RM) Investigation. , 2017, , 385-423.		0
193	High-Precision Laboratory Measurements Supporting Retrieval of Water Vapor, Gaseous Ammonia, and Aqueous Ammonia Clouds with the Juno Microwave Radiometer (MWR). , 2016, , 627-644.		0
194	Jupiterâ€™s Magnetosphere: Plasma Sources and Transport. Space Sciences Series of ISSI, 2016, , 209-236.	0.0	0
195	Jupiterâ€™s Magnetosphere: Plasma Sources and Transport. Space Science Reviews, 2015, 192, 209-236.	8.1	19
196	Multifrequency analysis of the Jovian electron-belt radiation during theCassiniflyby of Jupiter. Astronomy and Astrophysics, 2014, 568, A61.	5.1	12
197	Magnetospheric Science Objectives of the Juno Mission. , 2014, , 39-107.		3
198	VLA observations at 6.2 cm of the response of Jupiter's electron belt to the July 2009 event. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	10

#	Article	IF	Citations
199	The Juno Mission. Proceedings of the International Astronomical Union, 2010, 6, 92-100.	0.0	56
200	The planets and our culture a history and a legacy. Proceedings of the International Astronomical Union, 2010, 6, 199-212.	0.0	0
201	The Juno microwave experiment. , 2010, , .		0
202	Kronos: exploring the depths of Saturn with probes and remote sensing through an international mission. Experimental Astronomy, 2009, 23, 947-976.	3.7	10
203	LAPLACE: A mission to Europa and the Jupiter System for ESAâ€™s Cosmic Vision Programme. Experimental Astronomy, 2009, 23, 849-892.	3.7	38
204	Evidence for short-term variability of Jupiter's decimetric emission from VLA observations. Astronomy and Astrophysics, 2009, 508, 1001-1010.	5.1	11
205	Titan in the Cassiniâ€"Huygens Extended Mission. , 2009, , 455-477.		0
206	Discussing the processes constraining the Jovian synchrotron radio emission's features. Planetary and Space Science, 2008, 56, 326-345.	1.7	43
207	Investigating the origins of the Jovian decimetric emission's variability. Journal of Geophysical Research, 2008, 113, .	3.3	22
208	Identification of Saturn's magnetospheric regions and associated plasma processes: Synopsis of Cassini observations during orbit insertion. Reviews of Geophysics, 2008, 46, .	23.0	23
209	Electron sources in Saturn's magnetosphere. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	83
210	Preliminary interpretation of Titan plasma interaction as observed by the Cassini Plasma Spectrometer: Comparisons with Voyager 1. Geophysical Research Letters, 2006, 33, .	4.0	82
211	Initial interpretation of Titan plasma interaction as observed by the Cassini plasma spectrometer: Comparisons with Voyager 1. Planetary and Space Science, 2006, 54, 1211-1224.	1.7	82
212	Microwave remote sensing of Jupiter's atmosphere from an orbiting spacecraft. Icarus, 2005, 173, 447-453.	2.5	52
213	Dynamics of Saturn's Magnetosphere from MIMI During Cassini's Orbital Insertion. Science, 2005, 307, 1270-1273.	12.6	166
214	Composition and Dynamics of Plasma in Saturn's Magnetosphere. Science, 2005, 307, 1262-1266.	12.6	281
215	A revised model of Jupiter's inner electron belts: Updating the Divine radiation model. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	52
216	The global plasma environment of Titan as observed by Cassini Plasma Spectrometer during the first two close encounters with Titan. Geophysical Research Letters, 2005, 32, .	4.0	37

#	Article	IF	Citations
217	The Cassini?Huygens flyby of Jupiter. Icarus, 2004, 172, 1-8.	2.5	7
218	Cassini Plasma Spectrometer Investigation. Space Science Reviews, 2004, 114, 1-112.	8.1	452
219	Long-term dynamics of the inner Jovian electron radiation belts. Advances in Space Research, 2004, 33, 2039-2044.	2.6	12
220	Cassini/Huygens flyby of the Jovian system. Journal of Geophysical Research, 2004, 109, .	3.3	4
221	Cassini Plasma Spectrometer Investigation. , 2004, , 1-112.		9
222	Modeling the electron and proton radiation belts of Saturn. Geophysical Research Letters, 2003, 30, .	4.0	30
223	Magnetospheric and Plasma Science with Cassini-Huygens. , 2003, , 253-346.		3
224	Control of Jupiter's radio emission and aurorae by the solar wind. Nature, 2002, 415, 985-987.	27.8	171
225	Ultra-relativistic electrons in Jupiter's radiation belts. Nature, 2002, 415, 987-991.	27.8	109
226	A nebula of gases from Io surrounding Jupiter. Nature, 2002, 415, 994-996.	27.8	44
227	Magnetospheric and Plasma Science with Cassini-Huygens. Space Science Reviews, 2002, 104, 253-346.	8.1	47
228	Divine-Garrett Model and Jovian synchrotron emission. Geophysical Research Letters, 2001, 28, 907-910.	4.0	15
229	Modeling Jupiter's synchrotron radiation. Geophysical Research Letters, 2001, 28, 903-906.	4.0	26
230	Electron densities near Io from Galileo plasma wave observations. Journal of Geophysical Research, 2001, 106, 26225-26232.	3.3	23
231	Synchrotron emission images from three-dimensional modeling of the Jovian electron radiation belts. Advances in Space Research, 2001, 28, 915-918.	2.6	14
232	Plasma densities in the vicinity of Callisto from Galileo plasma wave observations. Geophysical Research Letters, 2000, 27, 1867-1870.	4.0	33
233	Imaging Jupiter's Aurora at Visible Wavelengths. Icarus, 1998, 135, 251-264.	2.5	56
234	Galileo plasma wave observations near Europa. Geophysical Research Letters, 1998, 25, 237-240.	4.0	30

#	Article	IF	Citations
235	Io's interaction with the Jovian magnetosphere. Eos, 1997, 78, 93.	0.1	10
236	A determination of the source of Jovian hectometric radiation via occultation by Ganymede. Geophysical Research Letters, 1997, 24, 1171-1174.	4.0	17
237	Low-energy electron measurements at Ganymede with the Galileo spacecraft: Probes of the magnetic topology. Geophysical Research Letters, 1997, 24, 2159-2162.	4.0	33
238	Outflow of hydrogen ions from Ganymede. Geophysical Research Letters, 1997, 24, 2151-2154.	4.0	57
239	Galileo evidence for rapid interchange transport in the Io torus. Geophysical Research Letters, 1997, 24, 2131-2134.	4.0	109
240	The global plasma environment of Io as inferred from the Galileo plasma wave observations. Geophysical Research Letters, 1997, 24, 2115-2118.	4.0	7
241	Enhanced whistler-mode emissions: Signatures of interchange motion in the Io torus. Geophysical Research Letters, 1997, 24, 2123-2126.	4.0	67
242	Ganymede: A new radio source. Geophysical Research Letters, 1997, 24, 2167-2170.	4.0	32
243	Absence of a magnetic-field signature in plasma-wave observations at Callisto. Nature, 1997, 387, 261-262.	27.8	20
244	Interpretation of the observed changes in Jupiter's synchrotron radiation during and after the impacts from comet Shoemaker-Levy 9. Planetary and Space Science, 1997, 45, 1359-1370.	1.7	3
245	Galileo Plasma Wave Observations in the Io Plasma Torus and Near Io. Science, 1996, 274, 391-392.	12.6	131
246	Plasma Observations at Io with the Galileo Spacecraft. Science, 1996, 274, 394-395.	12.6	184
247	Evidence for a magnetosphere at Ganymede from plasma-wave observations by the Galileo spacecraft. Nature, 1996, 384, 535-537.	27.8	152
248	Outburst of Jupiter's synchrotron radiation after the impact of comet Shoemaker-Levy 9. Science, 1995, 268, 1879-1883.	12.6	43
249	Changes in Jupiter's 13â€cm synchrotron radio emission following the impact of comet Shoemakerâ€Levyâ€9. Geophysical Research Letters, 1995, 22, 1797-1800.	4.0	22
250	Assessment of mechanisms for Jovian synchrotron variability associated with comet SLâ€9. Geophysical Research Letters, 1995, 22, 1813-1816.	4.0	25
251	Observations of Jupiter's synchrotron radiation at 18 cm during the comet Shoemakerâ€Levy/9 impacts. Geophysical Research Letters, 1995, 22, 1801-1804.	4.0	19
252	ROSAT Observations of X-ray Emissions from Jupiter During the Impact of Comet Shoemaker-Levy 9. Science, 1995, 268, 1598-1601.	12.6	27

#	Article	IF	Citations
253	Fine structure of Langmuir waves observed upstream of the bow shock at Venus. Journal of Geophysical Research, 1994, 99, 13363.	3.3	40
254	Lightning and Plasma Wave Observations from the Galileo Flyby of Venus. Science, 1991, 253, 1522-1525.	12.6	71
255	One year variations in the near Earth solar wind ion density and bulk flow velocity. Geophysical Research Letters, 1990, 17, 37-40.	4.0	28
256	Correlation studies between solar wind parameters and the decimetric radio emission from Jupiter. Journal of Geophysical Research, 1989, 94, 121-128.	3.3	59