George B Clark

List of Publications by Year
in descending order

102 papers	2,411 citations	186254 28 h-index	254170 43 g-index
115 all docs	115 docs citations	115 times ranked	1290 citing authors

#	Article	IF	Citations
1	The in-situ exploration of Jupiterâ€™s radiation belts. Experimental Astronomy, 2022, 54, 745-789.	3.7	11
2	Spectra of Saturnâ€™s proton belts revealed. Icarus, 2022, 376, 114795.	2.5	4
3	Properties of Ionâ€Inertial Scale Plasmoids Observed by the Juno Spacecraft in the Jovian Magnetotail. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	3
4	A Comprehensive Set of Juno In Situ and Remote Sensing Observations of the Ganymede Auroral Footprint. Geophysical Research Letters, 2022, 49, .	4.0	8
5	Closed Fluxtubes and Dispersive Proton Conics at Jupiter's Polar Cap. Geophysical Research Letters, 2022, 49, .	4.0	7
6	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
7	Juno Plasma Wave Observations at Ganymede. Geophysical Research Letters, 2022, 49, .	4.0	13
8	Investigating the Occurrence of Magnetic Reconnection at Jupiter's Dawn Magnetopause During the Juno Era. Geophysical Research Letters, 2022, 49, .	4.0	7
9	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
10	Proton Outflow Associated With Jupiter's Auroral Processes. Geophysical Research Letters, 2021, 48, .	4.0	13
11	Jupiter. , 2021, , 108-122.		0
12	Dawnâ€Dusk Asymmetry in Energetic (>20ÂkeV) Particles Adjacent to Saturn's Magnetopause. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028264.	2.4	1
13	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
14	Simultaneous Observation of an Auroral Dawn Storm With the Hubble Space Telescope and Juno. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028717.	2.4	6
15	The Magnetosphere of Jupiter: Moving from Discoveries Towards Understanding. , 2021, 53, .		0
16	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
17	Jupiter's Ion Radiation Belts Inward of Europa's Orbit. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028925.	2.4	10
18	Energy Spectra Near Ganymede From Juno Data. Geophysical Research Letters, 2021, 48, e2021GL093021.	4.0	10

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19	Revealing the source of Jupiterâ€™s x-ray auroral flares. Science Advances, 2021, 7, .	10.3	25
20	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
21	Quantification of Diffuse Auroral Electron Precipitation Driven by Whistler Mode Waves at Jupiter. Geophysical Research Letters, 2021, 48, e2021GL095457.	4.0	12
22	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
23	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
24	Charge Exchange Ion Losses in Saturnâ€™s Magnetosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029310.	2.4	1
25	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
26	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
27	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
28	Proton Acceleration by Io's AlfvÃ©nic Interaction. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027314.	2.4	18
29	A New Framework to Explain Changes in Io's Footprint Tail Electron Fluxes. Geophysical Research Letters, 2020, 47, e2020GL089267.	4.0	25
30	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
31	Jupiter's Xâ€ray Emission During the 2007 Solar Minimum. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027219.	2.4	17
32	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
33	Reconnectionâ€and Dipolarizationâ€Driven Auroral Dawn Storms and Injections. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027663.	2.4	27
34	Magnetospheric Studies: A Requirement for Addressing Interdisciplinary Mysteries in the Ice Giant Systems. Space Science Reviews, 2020, 216, 1.	8.1	16
35	First Report of Electron Measurements During a Europa Footprint Tail Crossing by Juno. Geophysical Research Letters, 2020, 47, e2020GL089732.	4.0	17
36	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

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37	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
38	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
39	Juno Observations of Heavy Ion Energization During Transient Dipolarizations in Jupiter Magnetotail. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027933.	2.4	10
40	Plasma Sheet Boundary Layer in Jupiter's Magnetodisk as Observed by Juno. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027957.	2.4	7
41	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
42	Magnetotail Reconnection at Jupiter: A Survey of Juno Magnetic Field Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027486.	2.4	21
43	AlfvÃ©nic Acceleration Sustains Ganymede's Footprint Tail Aurora. Geophysical Research Letters, 2020, 47, e2019GL086527.	4.0	25
44	Energetic Particle Signatures Above Saturn's Aurorae. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027403.	2.4	5
45	Chandra Observations of Jupiter's Xâ€ray Auroral Emission During Juno Apojove 2017. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006262.	3.6	16
46	Energetic Proton Acceleration Associated With Io's Footprint Tail. Geophysical Research Letters, 2020, 47, e2020GL090839.	4.0	16
47	Energetic Neutral Atoms From Jupiter's Polar Regions. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028697.	2.4	2
48	Influence of Solar Disturbances on Galactic Cosmic Rays in the Solar Wind, Heliosheath, and Local Interstellar Medium: Advanced Composition Explorer, New Horizons, and Voyager Observations. Astrophysical Journal, 2020, 905, 69.	4.5	15
49	Spatial Variations in the Altitude of the CH₄ Homopause at Jupiterâ€™s Mid-to-high Latitudes, as Constrained from IRTF-TEXES Spectra. Planetary Science Journal, 2020, 1, 85.	3.6	9
50	Heliospheric Maps from Cassini INCA Early in the Cruise to Saturn. Astrophysical Journal Letters, 2020, 902, L45.	8.3	7
51	Jovian Injections Observed at High Latitude. Geophysical Research Letters, 2019, 46, 9397-9404.	4.0	17
52	AlfvÃ©nic Fluctuations Associated With Jupiter's Auroral Emissions. Geophysical Research Letters, 2019, 46, 7157-7165.	4.0	42
53	Suprathermal Ions in the Outer Heliosphere. Astrophysical Journal, 2019, 876, 46.	4.5	15
54	Birkeland currents in Jupiterâ€™s magnetosphere observed by the polar-orbiting Juno spacecraft. Nature Astronomy, 2019, 3, 904-909.	10.1	40

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55	Energetic Oxygen and Sulfur Charge States in the Outer Jovian Magnetosphere: Insights From the Cassini Jupiter Flyby. Geophysical Research Letters, 2019, 46, 11709-11717.	4.0	12
56	Highâ€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.	4.0	2
57	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
58	Io's Effect on Energetic Charged Particles as Seen in Juno Data. Geophysical Research Letters, 2019, 46, 13615-13620.	4.0	12
59	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
60	Jovian UV Aurora's Response to the Solar Wind: Hisaki EXCEED and Juno Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 10209-10218.	2.4	9
61	Pluto's Interaction With Energetic Heliospheric Ions. Journal of Geophysical Research: Space Physics, 2019, 124, 7413-7424.	2.4	4
62	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
63	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
64	Intervals of Intense Energetic Electron Beams Over Jupiter's Poles. Journal of Geophysical Research: Space Physics, 2018, 123, 1989-1999.	2.4	35
65	Diverse Electron and Ion Acceleration Characteristics Observed Over Jupiter's Main Aurora. Geophysical Research Letters, 2018, 45, 1277-1285.	4.0	49
66	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
67	Electron Acceleration to MeV Energies at Jupiter and Saturn. Journal of Geophysical Research: Space Physics, 2018, 123, 9110-9129.	2.4	46
68	Microchannel Plate Efficiency to Detect Low Velocity Dust Impacts. Journal of Geophysical Research: Space Physics, 2018, 123, 9936-9940.	2.4	5
69	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
70	Saturn's Innermost Radiation Belt Throughout and Inward of the Dâ€Ring. Geophysical Research Letters, 2018, 45, 10,912.	4.0	9
71	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
72	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. Space Science Reviews, 2018, 214, 1.	8.1	129

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73	In Situ Observations Connected to the Io Footprint Tail Aurora. Journal of Geophysical Research E: Planets, 2018, 123, 3061-3077.	3.6	48
74	Internal Versus External Sources of Plasma at Saturn: Overview From Magnetospheric Imaging Investigation/Chargeâ€Energyâ€Mass Spectrometer Data. Journal of Geophysical Research: Space Physics, 2018, 123, 4712-4727.	2.4	15
75	Juno Constraints on the Formation of Jupiter's Magnetospheric Cushion Region. Geophysical Research Letters, 2018, 45, 9427-9434.	4.0	6
76	Transient brightening of Jupiter's aurora observed by the Hisaki satellite and Hubble Space Telescope during approach phase of the Juno spacecraft. Geophysical Research Letters, 2017, 44, 4523-4531.	4.0	30
77	Plasma measurements in the Jovian polar region with Juno/JADE. Geophysical Research Letters, 2017, 44, 7122-7130.	4.0	35
78	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
79	A heavy ion and proton radiation belt inside of Jupiter's rings. Geophysical Research Letters, 2017, 44, 5259-5268.	4.0	28
80	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
81	Observation and interpretation of energetic ion conics in Jupiter's polar magnetosphere. Geophysical Research Letters, 2017, 44, 4419-4425.	4.0	21
82	Radiation near Jupiter detected by Juno/JEDI during PJ1 and PJ3. Geophysical Research Letters, 2017, 44, 4426-4431.	4.0	10
83	Jovian bow shock and magnetopause encounters by the Juno spacecraft. Geophysical Research Letters, 2017, 44, 4506-4512.	4.0	30
84	Electron beams and loss cones in the auroral regions of Jupiter. Geophysical Research Letters, 2017, 44, 7131-7139.	4.0	61
85	Accelerated flows at Jupiter's magnetopause: Evidence for magnetic reconnection along the dawn flank. Geophysical Research Letters, 2017, 44, 4401-4409.	4.0	36
86	Understanding the Origin of Jupiter's Diffuse Aurora Using Juno's First Perijove Observations. Geophysical Research Letters, 2017, 44, 10,162.	4.0	17
87	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
88	Energetic particle signatures of magnetic fieldâ€aligned potentials over Jupiter's polar regions. Geophysical Research Letters, 2017, 44, 8703-8711.	4.0	41
89	Discrete and broadband electron acceleration in Jupiterâ€™s powerful aurora. Nature, 2017, 549, 66-69.	27.8	79
90	The Jovian Auroral Distributions Experiment (JADE) on the Juno Mission to Jupiter. Space Science Reviews, 2017, 213, 547-643.	8.1	187

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91	The â€œPuckâ€•energetic charged particle detector: Design, heritage, and advancements. Journal of Geophysical Research: Space Physics, 2016, 121, 7900-7913.	2.4	15
92	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
93	Characterizing cometary electrons with kappa distributions. Journal of Geophysical Research: Space Physics, 2016, 121, 7407-7422.	2.4	62
94	Suprathermal electrons near the nucleus of comet 67P/Churyumovâ€Gerasimenko at 3â€‰AU: Model comparisons with Rosetta data. Journal of Geophysical Research: Space Physics, 2016, 121, 5815-5836.	2.4	49
95	Modeling the response of a top hat electrostatic analyzer in an external magnetic field: Experimental validation with the Juno JADEâ€E sensor. Journal of Geophysical Research: Space Physics, 2016, 121, 5121-5136.	2.4	3
96	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
97	The vertical thickness of Jupiter's Europa gas torus from charged particle measurements. Geophysical Research Letters, 2016, 43, 9425-9433.	4.0	27
98	Observation of charged nanograins at comet 67P/Churyumovâ€Gerasimenko. Geophysical Research Letters, 2015, 42, 6575-6581.	4.0	26
99	Evolution of electron pitch angle distributions across Saturnâ€™s middle magnetospheric region from MIMI/LEMMS. Planetary and Space Science, 2014, 104, 18-28.	1.7	25
100	Response in electrostatic analyzers due to backscattered electrons: Case study analysis with the Juno Jovian Auroral Distribution Experiment-Electron instrument. Review of Scientific Instruments, 2013, 84, 105109.	1.3	2
101	Energetic charged particle fluxes relevant to Ganymede's polar region. Geophysical Research Letters, 0, , .	4.0	6
102	Classification of Cassiniâ€™s Orbit Regions as Magnetosphere, Magnetosheath, and Solar Wind via Machine Learning. Frontiers in Astronomy and Space Sciences, 0, 9, .	2.8	3