

Rob J Wilson

List of Publications by Year in descending order

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Version: 2024-02-01

80
papers

2,698
citations

145106

33
h-index

223390

49
g-index

82
all docs

82
docs citations

82
times ranked

1417
citing authors

#	ARTICLE	IF	CITATIONS
1	Closed Fluxtubes and Dispersive Proton Conics at Jupiter's Polar Cap. Geophysical Research Letters, 2022, 49, .	1.5	7
2	Waterâ€Group Pickup Ions From Europaâ€Genic Neutrals Orbiting Jupiter. Geophysical Research Letters, 2022, 49, .	1.5	16
3	Detection of Equatorial Plasma Velocity Modulations Associated With Planetary Period Oscillations in Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	0
4	Evidence of AlfvÃ©nic Activity in Jupiter's Midâ€toâ€High Latitude Magnetosphere. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	3
5	Investigating the Occurrence of Magnetic Reconnection at Jupiter's Dawn Magnetopause During the Juno Era. Geophysical Research Letters, 2022, 49, .	1.5	7
6	Plasma Observations During the 7 June 2021 Ganymede Flyby From the Jovian Auroral Distributions Experiment (JADE) on Juno. Geophysical Research Letters, 2022, 49, .	1.5	16
7	Proton Outflow Associated With Jupiter's Auroral Processes. Geophysical Research Letters, 2021, 48, .	1.5	13
8	Simultaneous Observation of an Auroral Dawn Storm With the Hubble Space Telescope and Juno. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028717.	0.8	6
9	Persephone: A Pluto-system Orbiter and Kuiper Belt Explorer. Planetary Science Journal, 2021, 2, 75.	1.5	7
10	Survey of Juno Observations in Jupiter's Plasma Disk: Density. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029446.	0.8	15
11	Cassiniâ€Plasma Interaction Simulations Revealing the Cassini Ion Wake Characteristics: Implications for Inâ€Situ Data Analyses and Ion Temperature Estimates. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA029026.	0.8	0
12	Observation of Kolmogorov Turbulence in the Jovian Magnetosheath From JADE Data. Geophysical Research Letters, 2021, 48, e2021GL095006.	1.5	5
13	Electron Partial Density and Temperature Over Jupiter's Main Auroral Emission Using Juno Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029426.	0.8	11
14	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.	0.8	3
15	Method to Derive Ion Properties From Juno JADE Including Abundance Estimates for O⁺ and S²⁺. Journal of Geophysical Research: Space Physics, 2020, 125, e2018JA026169.	0.8	31
16	Proton Acceleration by Io's AlfvÃ©nic Interaction. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027314.	0.8	18
17	A New Framework to Explain Changes in Io's Footprint Tail Electron Fluxes. Geophysical Research Letters, 2020, 47, e2020GL089267.	1.5	25
18	Polar Flattening of Jupiter's Magnetosphere. Geophysical Research Letters, 2020, 47, e2020GL089818.	1.5	4

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19	An Enhancement of Jupiter's Main Auroral Emission and Magnetospheric Currents. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027904.	0.8	13
20	First Report of Electron Measurements During a Europa Footprint Tail Crossing by Juno. Geophysical Research Letters, 2020, 47, e2020GL089732.	1.5	17
21	Energy Flux and Characteristic Energy of Electrons Over Jupiter's Main Auroral Emission. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027693.	0.8	37
22	Magnetotail Reconnection at Jupiter: A Survey of Juno Magnetic Field Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027486.	0.8	21
23	Alfvénic Acceleration Sustains Ganymede's Footprint Tail Aurora. Geophysical Research Letters, 2020, 47, e2019GL086527.	1.5	25
24	Survey of Ion Properties in Jupiter's Plasma Sheet: Juno JADE's Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027696.	0.8	36
25	Distribution in Saturn's Inner Magnetosphere From 2.4 to 10 R_S : A Diffusive Equilibrium Model. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027545.	0.8	9
26	Juno In Situ Observations Above the Jovian Equatorial Ionosphere. Geophysical Research Letters, 2020, 47, e2020GL087623.	1.5	5
27	Jovian High-Latitude Ionospheric Ions: Juno In Situ Observations. Geophysical Research Letters, 2019, 46, 8663-8670.	1.5	16
28	Energetic Oxygen and Sulfur Charge States in the Outer Jovian Magnetosphere: Insights From the Cassini Jupiter Flyby. Geophysical Research Letters, 2019, 46, 11709-11717.	1.5	12
29	Quantifying Mass and Magnetic Flux Transport in Saturn's Magnetosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 1916-1926.	0.8	6
30	Survey of Jupiter's Dawn Magnetosheath Using Juno. Journal of Geophysical Research: Space Physics, 2019, 124, 9106-9123.	0.8	16
31	Comparing Electron Energetics and UV Brightness in Jupiter's Northern Polar Region During Juno Perijove 5. Geophysical Research Letters, 2019, 46, 19-27.	1.5	18
32	Solar Wind Properties During Juno's Approach to Jupiter: Data Analysis and Resulting Plasma Properties Utilizing a 1D Forward Model. Journal of Geophysical Research: Space Physics, 2018, 123, 2772-2786.	0.8	15
33	New Results From Galileo's First Flyby of Ganymede: Reconnection-Driven Flows at the Low-Latitude Magnetopause Boundary, Crossing the Cusp, and Icy Ionospheric Escape. Geophysical Research Letters, 2018, 45, 3382-3392.	1.5	20
34	In Situ Observations Connected to the Io Footprint Tail Aurora. Journal of Geophysical Research: Planets, 2018, 123, 3061-3077.	1.5	48
35	Survey of Thermal Plasma Composition in Saturn's Magnetosphere Using Time-of-Flight Data From Cassini/CAPS. Journal of Geophysical Research: Space Physics, 2018, 123, 6494-6513.	0.8	6
36	Juno Constraints on the Formation of Jupiter's Magnetospheric Cushion Region. Geophysical Research Letters, 2018, 45, 9427-9434.	1.5	6

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37	Observation of Electron Conics by Juno: Implications for Radio Generation and Acceleration Processes. <i>Geophysical Research Letters</i> , 2018, 45, 9408-9416.	1.5	19
38	Jupiter's interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. <i>Science</i> , 2017, 356, 821-825.	6.0	229
39	Plasma measurements in the Jovian polar region with Juno/JADE. <i>Geophysical Research Letters</i> , 2017, 44, 7122-7130.	1.5	35
40	Plasma environment at the dawn flank of Jupiter's magnetosphere: Juno arrives at Jupiter. <i>Geophysical Research Letters</i> , 2017, 44, 4432-4438.	1.5	24
41	Hot flow anomaly observed at Jupiter's bow shock. <i>Geophysical Research Letters</i> , 2017, 44, 8107-8112.	1.5	17
42	Generation of the Jovian hectometric radiation: First lessons from Juno. <i>Geophysical Research Letters</i> , 2017, 44, 4439-4446.	1.5	38
43	Response of Jupiter's auroras to conditions in the interplanetary medium as measured by the Hubble Space Telescope and Juno. <i>Geophysical Research Letters</i> , 2017, 44, 7643-7652.	1.5	68
44	Electron beams and loss cones in the auroral regions of Jupiter. <i>Geophysical Research Letters</i> , 2017, 44, 7131-7139.	1.5	61
45	Juno's UVS approach observations of Jupiter's auroras. <i>Geophysical Research Letters</i> , 2017, 44, 7668-7675.	1.5	25
46	Accelerated flows at Jupiter's magnetopause: Evidence for magnetic reconnection along the dawn flank. <i>Geophysical Research Letters</i> , 2017, 44, 4401-4409.	1.5	36
47	Spatial Distribution and Properties of 0.1-100 keV Electrons in Jupiter's Polar Auroral Region. <i>Geophysical Research Letters</i> , 2017, 44, 9199-9207.	1.5	34
48	Local time asymmetry of Saturn's magnetosheath flows. <i>Geophysical Research Letters</i> , 2017, 44, 5877-5883.	1.5	23
49	Survey of thermal plasma ions in Saturn's magnetosphere utilizing a forward model. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7256-7278.	0.8	48
50	Radial and local time structure of the Saturnian ring current, revealed by Cassini. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1803-1815.	0.8	34
51	Juno observations of large-scale compressions of Jupiter's dawnside magnetopause. <i>Geophysical Research Letters</i> , 2017, 44, 7559-7568.	1.5	20
52	The Jovian Auroral Distributions Experiment (JADE) on the Juno Mission to Jupiter. <i>Space Science Reviews</i> , 2017, 213, 547-643.	3.7	187
53	Survey of Galileo plasma observations in Jupiter's plasma sheet. <i>Journal of Geophysical Research E: Planets</i> , 2016, 121, 871-894.	1.5	81
54	Suprathermal electron penetration into the inner magnetosphere of Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5436-5448.	0.8	11

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55	Error analysis for numerical estimates of space plasma parameters. Earth and Space Science, 2015, 2, 201-222.	1.1	7
56	The relative proportions of water group ions in Saturn's inner magnetosphere: A preliminary study. Journal of Geophysical Research: Space Physics, 2015, 120, 6624-6632.	0.8	7
57	Magnetic flux circulation in the rotationally driven giant magnetospheres. Journal of Geophysical Research: Space Physics, 2015, 120, 4229-4245.	0.8	67
58	Plasma conditions at Europa's orbit. Icarus, 2015, 261, 1-13.	1.1	62
59	Plasma flows in Saturn's nightside magnetosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 4521-4535.	0.8	34
60	Ion composition in interchange injection events in Saturn's magnetosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 9761-9772.	0.8	23
61	Cassini/CAPS observations of duskside tail dynamics at Saturn. Journal of Geophysical Research: Space Physics, 2013, 118, 5767-5781.	0.8	39
62	Magnetic signatures of Kelvin-Helmholtz vortices on Saturn's magnetopause: Global survey. Journal of Geophysical Research: Space Physics, 2013, 118, 393-404.	0.8	81
63	Evidence from radial velocity measurements of a global electric field in Saturn's inner magnetosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 2122-2132.	0.8	51
64	Detection of exospheric O ₂ at Saturn's moon Dione. Geophysical Research Letters, 2012, 39, .	1.5	42
65	Kelvin-Helmholtz instability at Saturn's magnetopause: Cassini ion data analysis. Journal of Geophysical Research, 2012, 117, .	3.3	38
66	Charged nanograins in the Enceladus plume. Journal of Geophysical Research, 2012, 117, .	3.3	71
67	Seasonal variations in Saturn's plasma between the main rings and Enceladus. Journal of Geophysical Research, 2012, 117, .	3.3	27
68	Saturn's ring current: Local time dependence and temporal variability. Journal of Geophysical Research, 2011, 116, .	3.3	39
69	Kelvin-Helmholtz instability at Saturn's magnetopause: Hybrid simulations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	56
70	Properties of the thermal ion plasma near Rhea as measured by the Cassini plasma spectrometer. Journal of Geophysical Research, 2010, 115, .	3.3	20
71	Harmonic growth of ion-cyclotron waves in Saturn's magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	12
72	Nature of the ring current in Saturn's dayside magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	27

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73	Influence of hot plasma pressure on the global structure of Saturn's magnetodisk. Geophysical Research Letters, 2010, 37, .	1.5	33
74	Rate of radial transport of plasma in Saturn's inner magnetosphere. Journal of Geophysical Research, 2010, 115, .	3.3	41
75	Cassini detection of Enceladus' cold water group plume ionosphere. Geophysical Research Letters, 2009, 36, .	1.5	57
76	Northward field excursions in Saturn's magnetotail and their relationship to magnetospheric periodicities. Geophysical Research Letters, 2009, 36, .	1.5	41
77	Thermal ion flow in Saturn's inner magnetosphere measured by the Cassini plasma spectrometer: A signature of the Enceladus torus?. Geophysical Research Letters, 2009, 36, .	1.5	68
78	A diffusive equilibrium model for the plasma density in Saturn's magnetosphere. Journal of Geophysical Research, 2009, 114, .	3.3	85
79	Cassini detection of water group pickup ions in the Enceladus torus. Geophysical Research Letters, 2008, 35, .	1.5	47
80	Cassini plasma spectrometer thermal ion measurements in Saturn's inner magnetosphere. Journal of Geophysical Research, 2008, 113, .	3.3	120