

# W R Dunn

## List of Publications by Year in descending order

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Version: 2024-02-01

44  
papers

748  
citations

393982

19  
h-index

552369

26  
g-index

51  
all docs

51  
docs citations

51  
times ranked

695  
citing authors

#	ARTICLE	IF	CITATIONS
1	The impact of an ICME on the Jovian X-ray aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 2274-2307.	0.8	51
2	The independent pulsations of Jupiter's northern and southern X-ray auroras. <i>Nature Astronomy</i> , 2017, 1, 758-764.	4.2	49
3	A novel method to photometrically constrain orbital eccentricities: Multibody Asterodensity Profiling. <i>Monthly Notices of the Royal Astronomical Society</i> , 2012, 421, 1166-1188.	1.6	39
4	Intervals of Intense Energetic Electron Beams Over Jupiter's Poles. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1989-1999.	0.8	35
5	Plasmapause surface wave oscillates the magnetosphere and diffuse aurora. <i>Nature Communications</i> , 2020, 11, 1668.	5.8	35
6	Jupiter's X-ray and EUV auroras monitored by Chandra, XMM-Newton, and Hisaki satellite. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 2308-2320.	0.8	34
7	Rotationally driven magnetic reconnection in Saturn's dayside. <i>Nature Astronomy</i> , 2018, 2, 640-645.	4.2	32
8	On the Relation Between Jovian Aurorae and the Loading/Unloading of the Magnetic Flux: Simultaneous Measurements From Juno, Hubble Space Telescope, and Hisaki. <i>Geophysical Research Letters</i> , 2019, 46, 11632-11641.	1.5	32
9	How Jupiter's unusual magnetospheric topology structures its aurora. <i>Science Advances</i> , 2021, 7, .	4.7	31
10	Reconnection- and Dipolarization-Driven Auroral Dawn Storms and Injections. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027663.	0.8	27
11	Revealing the source of Jupiter's x-ray auroral flares. <i>Science Advances</i> , 2021, 7, .	4.7	25
12	Comparisons Between Jupiter's X-ray, UV and Radio Emissions and In Situ Solar Wind Measurements During 2007. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027222.	0.8	24
13	Corotating Magnetic Reconnection Site in Saturn's Magnetosphere. <i>Astrophysical Journal Letters</i> , 2017, 846, L25.	3.0	23
14	Assessing Quasi-Periodicities in Jovian X-ray Emissions: Techniques and Heritage Survey. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 9204-9221.	0.8	23
15	Two fundamentally different drivers of dipolarizations at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4348-4356.	0.8	22
16	Heavy Ion Charge States in Jupiter's Polar Magnetosphere Inferred From Auroral Megavolt Electric Potentials. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028052.	0.8	21
17	Temporal and Spectral Studies by XMM-Newton of Jupiter's X-ray Auroras During a Compression Event. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027676.	0.8	20
18	Jovian Auroral Ion Precipitation: X-ray Production From Oxygen and Sulfur Precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027007.	0.8	20

#	ARTICLE	IF	CITATIONS
19	Original Research by Young Twinkle Students (ORBYTS): ephemeris refinement of transiting exoplanets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 504, 5671-5684.	1.6	19
20	A brightening of Jupiter's auroral 7.8- $\frac{1}{4}$ m CH <sub>4</sub> emission during a solar-wind compression. <i>Nature Astronomy</i> , 2019, 3, 607-613.	4.2	17
21	Jupiter's X-ray Emission During the 2007 Solar Minimum. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027219.	0.8	17
22	Chandra Observations of Jupiter's X-ray Auroral Emission During Juno Apojove 2017. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006262.	1.5	16
23	Reconnection Acceleration in Saturn's Dayside Magnetodisk: A Multicase Study with Cassini. <i>Astrophysical Journal Letters</i> , 2018, 868, L23.	3.0	15
24	Ultralow-Frequency Waves in Driving Jovian Aurorae Revealed by Observations From HST and Juno. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091579.	1.5	13
25	Independent evolution of stratospheric temperatures in Jupiter's northern and southern auroral regions from 2014 to 2016. <i>Geophysical Research Letters</i> , 2017, 44, 5345-5354.	1.5	12
26	Searching for Saturn's X-rays during a rare Jupiter Magnetotail crossing using <i>Chandra</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 506, 298-305.	1.6	10
27	X-Ray Emission from Jupiter's Galilean Moons: A Tool for Determining Their Surface Composition and Particle Environment. <i>Astrophysical Journal</i> , 2020, 895, 79.	1.6	9
28	A Low Signal Detection of X-rays From Uranus. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028739.	0.8	8
29	Characteristics of Jupiter's X-ray Auroral Hot Spot Emissions Using Chandra. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029243.	0.8	8
30	Magnetic Reconnection Near the Planet as a Possible Driver of Jupiter's Mysterious Polar Auroras. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029544.	0.8	7
31	Jupiter's X-ray aurora during UV dawn storms and injections as observed by <i>XMM-Newton</i> , <i>Hubble</i> , and <i>Hisaki</i> . <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 507, 1216-1228.	1.6	7
32	Observation and origin of non-thermal hard X-rays from Jupiter. <i>Nature Astronomy</i> , 2022, 6, 442-448.	4.2	7
33	Original Research by Young Twinkle Students (Orbyts): Ephemeris Refinement of Transiting Exoplanets II. <i>Research Notes of the AAS</i> , 2020, 4, 109.	0.3	6
34	Jupiter's X-ray and UV Dark Polar Region. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	6
35	Morphology of Jupiter's Polar Auroral Bright Spot Emissions via Juno's UVS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028586.	0.8	5
36	A Statistical Survey of Low-Frequency Magnetic Fluctuations at Saturn. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028387.	0.8	5

#	ARTICLE	IF	CITATIONS
37	Bringing pupils into the ORBYTS of research. <i>Astronomy and Geophysics</i> , 2017, 58, 5.11-5.11.	0.1	4
38	A Study of the Soft X-Ray Emission Lines in NGC 4151. I. Kinematic Properties of the Plasma Wind. <i>Research Notes of the AAS</i> , 2021, 5, 172.	0.3	3
39	Jupiter's Double-Arc Aurora as a Signature of Magnetic Reconnection: Simultaneous Observations From HST and Juno. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093964.	1.5	3
40	A Rotating Azimuthally Distributed Auroral Current System on Saturn Revealed by the Cassini Spacecraft. <i>Astrophysical Journal Letters</i> , 2021, 919, L25.	3.0	3
41	Future Exoplanet Research: XUV (EUV and X-Ray) Detection and Characterization. , 2017, , 1-20.		2
42	Properties of Plasmoids Observed in Saturn's Dayside and Nightside Magnetodisc. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	2
43	Opening pupils' eyes to the Sun. <i>Astronomy and Geophysics</i> , 2020, 61, 6.22-6.23.	0.1	1
44	A Study of the Soft X-Ray Emission Lines in NGC 4151. II. The Internal Plasma Properties. <i>Research Notes of the AAS</i> , 2021, 5, 233.	0.3	0