S T Brown

List of Publications by Year
in descending order

Source: https://exaly.com/author-pdf/6016472/publications.pdf

Version: 2024-02-01

29 papers	889 citations	623734 14 h-index	610901 24 g-index
29 all docs	29 docs citations	29 times ranked	908 citing authors

#	Article	IF	Citations
1	Jupiterâ€™s interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. Science, 2017, 356, 821-825.	12.6	229
2	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
3	The water abundance in Jupiterâ€™s equatorial zone. Nature Astronomy, 2020, 4, 609-616.	10.1	96
4	MWR: Microwave Radiometer for the Juno Mission to Jupiter. Space Science Reviews, 2017, 213, 139-185.	8.1	64
5	Prevalent lightning sferics at 600 megahertz near Jupiterâ€™s poles. Nature, 2018, 558, 87-90.	27.8	52
6	The High-Altitude MMIC Sounding Radiometer for the Global Hawk Unmanned Aerial Vehicle: Instrument Description and Performance. IEEE Transactions on Geoscience and Remote Sensing, 2011, 49, 3291-3301.	6.3	51
7	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
8	Small lightning flashes from shallow electrical storms on Jupiter. Nature, 2020, 584, 55-58.	27.8	27
9	Overview of Temporal Experiment for Storms and Tropical Systems (TEMPEST) CubeSat constellation mission. , 2015, , .		25
10	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
11	TEMPEST-D Radiometer: Instrument Description and Prelaunch Calibration. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10213-10226.	6.3	23
12	Microwave observations reveal the deep extent and structure of Jupiterâ€™s atmospheric vortices. Science, 2021, 374, 968-972.	12.6	23
13	Microwave Radiometry at Frequencies From 500 to 1400 MHz: An Emerging Technology for Earth Observations. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2021, 14, 4894-4914.	4.9	16
14	Multipleâ€wavelength sensing of Jupiter during the Juno mission's first perijove passage. Geophysical Research Letters, 2017, 44, 4607-4614.	4.0	14
15	Calibration and Validation of the TEMPEST-D CubeSat Radiometer. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4904-4914.	6.3	14
16	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
17	The CubeSat Radiometer Radio Frequency Interference Technology Validation (CubeRRT) mission. , 2016, , .		11
18	Jupiter Lightningâ€Induced Whistler and Sferic Events With Waves and MWR During Juno Perijoves. Geophysical Research Letters, 2018, 45, 7268-7276.	4.0	11

#	Article	IF	Citations
19	First look at Jupiter's synchrotron emission from Juno's perspective. Geophysical Research Letters, 2017, 44, 8676-8684.	4.0	10
20	Development of an On-Board Wide-Band Processor for Radio Frequency Interference Detection and Filtering. IEEE Transactions on Geoscience and Remote Sensing, 2019, 57, 3191-3203.	6.3	10
21	Real-Time Detection and Filtering of Radio Frequency Interference Onboard a Spaceborne Microwave Radiometer: The CubeRRT Mission. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1610-1624.	4.9	10
22	Aquarius whole range calibration: Celestial Sky, ocean, and land targets. , 2014, , .		7
23	Evidence for low density holes in Jupiterâ€™s ionosphere. Nature Communications, 2019, 10, 2751.	12.8	4
24	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
25	A 6U CubeSat constellation concept for atmospheric temperature and humidity sounding. , 2014, , .		3
26	Residual Study: Testing Jupiter Atmosphere Models Against Juno MWR Observations. Earth and Space Science, 2020, 7, e2020EA001229.	2.6	3
27	Highâ€Spatiotemporal Resolution Observations of Jupiter Lightningâ€Induced Radio Pulses Associated With Sferics and Thunderstorms. Geophysical Research Letters, 2020, 47, e2020GL088397.	4.0	3
28	Cross Validation of Tempest-D and Raincube Observations. , 2021, , .		3
29	A three-frequency feed for millimeter wave radiometry. Microwave and Optical Technology Letters, 2012, 54, 2483-2487.	1.4	1