

# S T Brown

## List of Publications by Year in descending order

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29  
papers

889  
citations

623734

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h-index

610901

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29  
all docs

29  
docs citations

29  
times ranked

908  
citing authors

#	ARTICLE	IF	CITATIONS
1	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
2	Calibration and Validation of the TEMPEST-D CubeSat Radiometer. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 4904-4914.	6.3	14
3	TEMPEST-D Radiometer: Instrument Description and Prelaunch Calibration. IEEE Transactions on Geoscience and Remote Sensing, 2021, 59, 10213-10226.	6.3	23
4	Cross Validation of Tempest-D and Raincube Observations. , 2021, , .		3
5	Microwave observations reveal the deep extent and structure of Jupiter's atmospheric vortices. Science, 2021, 374, 968-972.	12.6	23
6	Angular Dependence and Spatial Distribution of Jupiter's Centimeter-Wave Thermal Emission From Juno's Microwave Radiometer. Earth and Space Science, 2020, 7, e2020EA001254.	2.6	12
7	Residual Study: Testing Jupiter Atmosphere Models Against Juno MWR Observations. Earth and Space Science, 2020, 7, e2020EA001229.	2.6	3
8	High-Spatiotemporal Resolution Observations of Jupiter Lightning-Induced Radio Pulses Associated With Sferics and Thunderstorms. Geophysical Research Letters, 2020, 47, e2020GL088397.	4.0	3
9	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
10	Small lightning flashes from shallow electrical storms on Jupiter. Nature, 2020, 584, 55-58.	27.8	27
11	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
12	Real-Time Detection and Filtering of Radio Frequency Interference Onboard a Spaceborne Microwave Radiometer: The CubeRR Mission. IEEE Journal of Selected Topics in Applied Earth Observations and Remote Sensing, 2020, 13, 1610-1624.	4.9	10
13	The water abundance in Jupiter's equatorial zone. Nature Astronomy, 2020, 4, 609-616.	10.1	96
14	Evidence for low density holes in Jupiter's ionosphere. Nature Communications, 2019, 10, 2751.	12.8	4
15	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
16	Jupiter Lightning-Induced Whistler and Sferic Events With Waves and MWR During Juno Perijoves. Geophysical Research Letters, 2018, 45, 7268-7276.	4.0	11
17	Prevalent lightning sferics at 600 megahertz near Jupiter's poles. Nature, 2018, 558, 87-90.	27.8	52
18	Multiple-wavelength sensing of Jupiter during the Juno mission's first perijove passage. Geophysical Research Letters, 2017, 44, 4607-4614.	4.0	14

#	ARTICLE	IF	CITATIONS
19	The distribution of ammonia on Jupiter from a preliminary inversion of Juno microwave radiometer data. <i>Geophysical Research Letters</i> , 2017, 44, 5317-5325.	4.0	108
20	Jupiter's interior and deep atmosphere: The initial pole-to-pole passes with the Juno spacecraft. <i>Science</i> , 2017, 356, 821-825.	12.6	229
21	First look at Jupiter's synchrotron emission from Juno's perspective. <i>Geophysical Research Letters</i> , 2017, 44, 8676-8684.	4.0	10
22	MWR: Microwave Radiometer for the Juno Mission to Jupiter. <i>Space Science Reviews</i> , 2017, 213, 139-185.	8.1	64
23	Implications of the ammonia distribution on Jupiter from 1 to 100 hPa as measured by the Juno microwave radiometer. <i>Geophysical Research Letters</i> , 2017, 44, 7676-7685.	4.0	31
24	The CubeSat Radiometer Radio Frequency Interference Technology Validation (CubeRRT) mission. , 2016, , .		11
25	Overview of Temporal Experiment for Storms and Tropical Systems (TEMPEST) CubeSat constellation mission. , 2015, , .		25
26	A 6U CubeSat constellation concept for atmospheric temperature and humidity sounding. , 2014, , .		3
27	Aquarius whole range calibration: Celestial Sky, ocean, and land targets. , 2014, , .		7
28	A three-frequency feed for millimeter wave radiometry. <i>Microwave and Optical Technology Letters</i> , 2012, 54, 2483-2487.	1.4	1
29	The High-Altitude MMIC Sounding Radiometer for the Global Hawk Unmanned Aerial Vehicle: Instrument Description and Performance. <i>IEEE Transactions on Geoscience and Remote Sensing</i> , 2011, 49, 3291-3301.	6.3	51