J T Clarke

List of Publications by Year
in descending order

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124 papers	7,822 citations	39113 52 h-index	60403 85 g-index
129 all docs	129 docs citations	129 times ranked	2678 citing authors

#	Article	IF	Citations
1	Variability of Jupiter's Main Auroral Emission and Satellite Footprints Observed With HST During the Galileo Era. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	2
2	Illuminating the Motions of Jupiter's Auroral Dawn Storms. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	1
3	Estimate of the D/H Ratio in the Martian Upper Atmosphere from the Low Spectral Resolution Mode of MAVEN/IUVS. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006814.	1.5	6
4	Martian water loss to space enhanced by regional dust storms. Nature Astronomy, 2021, 5, 1036-1042.	4.2	40
5	Ganymedeâ€™s magnetic footprint brightness and location in respond to main emission. Journal of Physics: Conference Series, 2021, 2145, 012006.	0.3	0
6	Comparisons Between Jupiter's Xâ€ray, UV and Radio Emissions and Inâ€Situ Solar Wind Measurements During 2007. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027222.	0.8	24
7	LyÎ± Observations of Comet C/2013 A1 (Siding Spring) Using MAVEN IUVS Echelle. Astronomical Journal, 2020, 160, 10.	1.9	3
8	Seasonal Variability of Deuterium in the Upper Atmosphere of Mars. Journal of Geophysical Research: Space Physics, 2019, 124, 2152-2164.	0.8	13
9	Dust-enhanced water escape. Nature Astronomy, 2018, 2, 114-115.	4.2	7
10	Jupiter's Aurora Observed With HST During Juno Orbits 3 to 7. Journal of Geophysical Research: Space Physics, 2018, 123, 3299-3319.	0.8	53
11	Water vapor in the middle atmosphere of Mars during the 2007 global dust storm. Icarus, 2018, 300, 440-457.	1.1	111
12	Mars H Escape Rates Derived From MAVEN/IUVS Lyman Alpha Brightness Measurements and Their Dependence on Model Assumptions. Journal of Geophysical Research E: Planets, 2018, 123, 2192-2210.	1.5	42
13	Hubble Space Telescope Observations of Variations in Ganymede's Oxygen Atmosphere and Aurora. Journal of Geophysical Research: Space Physics, 2018, 123, 3777-3793.	0.8	16
14	Global Aurora on Mars During the September 2017 Space Weather Event. Geophysical Research Letters, 2018, 45, 7391-7398.	1.5	44
15	Loss of the Martian atmosphere to space: Present-day loss rates determined from MAVEN observations and integrated loss through time. Icarus, 2018, 315, 146-157.	1.1	216
16	Discovery of a proton aurora at Mars. Nature Astronomy, 2018, 2, 802-807.	4.2	50
17	Evidence for Auroral Emissions From Callisto's Footprint in HST UV Images. Journal of Geophysical Research: Space Physics, 2018, 123, 364-373.	0.8	23
18	Significant Space Weather Impact on the Escape of Hydrogen From Mars. Geophysical Research Letters, 2018, 45, 8844-8852.	1.5	29

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19	Martian Thermospheric Response to an X8.2 Solar Flare on 10 September 2017 as Seen by MAVEN/IUVS. Geophysical Research Letters, 2018, 45, 7312-7319.	1.5	24
20	Variability of D and H in the Martian upper atmosphere observed with the MAVEN IUVS echelle channel. Journal of Geophysical Research: Space Physics, 2017, 122, 2336-2344.	0.8	64
21	Martian mesospheric cloud observations by IUVS on MAVEN: Thermal tides coupled to the upper atmosphere. Geophysical Research Letters, 2017, 44, 4709-4715.	1.5	23
22	Detection of a persistent meteoric metal layer in the Martian atmosphere. Nature Geoscience, 2017, 10, 401-404.	5.4	52
23	Response of Jupiter's auroras to conditions in the interplanetary medium as measured by the Hubble Space Telescope and Juno. Geophysical Research Letters, 2017, 44, 7643-7652.	1.5	68
24	Variability of Jupiter's IR H₃⁺ aurorae during Juno approach. Geophysical Research Letters, 2017, 44, 4513-4522.	1.5	14
25	Nitric oxide nightglow and Martian mesospheric circulation from MAVEN/IUVS observations and LMDâ€MGCM predictions. Journal of Geophysical Research: Space Physics, 2017, 122, 5782-5797.	0.8	36
26	IUVS echelleâ€mode observations of interplanetary hydrogen: Standard for calibration and reference for cavity variations between Earth and Mars during MAVEN cruise. Journal of Geophysical Research: Space Physics, 2017, 122, 2089-2105.	0.8	16
27	Seasonal Changes in Hydrogen Escape From Mars Through Analysis of HST Observations of the Martian Exosphere Near Perihelion. Journal of Geophysical Research: Space Physics, 2017, 122, 11,756.	0.8	22
28	The Variability of Atmospheric Deuterium Brightness at Mars: Evidence for Seasonal Dependence. Journal of Geophysical Research: Space Physics, 2017, 122, 10,811.	0.8	15
29	An isolated, bright cusp aurora at Saturn. Journal of Geophysical Research: Space Physics, 2017, 122, 6121-6138.	0.8	9
30	Longâ€Term Variability of Jupiter's Magnetodisk and Implications for the Aurora. Journal of Geophysical Research: Space Physics, 2017, 122, 12,090.	0.8	15
31	Effect of the planet shine on the corona: Application to the Martian hot oxygen. Journal of Geophysical Research: Space Physics, 2016, 121, 11,413.	0.8	4
32	Stability within Jupiterâ€™s polar auroral â€˜Swirl regionâ€™ over moderate timescales. Icarus, 2016, 268, 145-155.	1.1	17
33	Characterizing Atmospheric Escape from Mars Today and Through Time, with MAVEN. Space Science Reviews, 2015, 195, 357-422.	3.7	99
34	Ultraviolet observations of the hydrogen coma of comet C/2013 A1 (Siding Spring) by MAVEN/IUVS. Geophysical Research Letters, 2015, 42, 8803-8809.	1.5	11
35	MAVEN IUVS observations of the aftermath of the Comet Siding Spring meteor shower on Mars. Geophysical Research Letters, 2015, 42, 4755-4761.	1.5	56
36	Nonmigrating tides in the Martian atmosphere as observed by MAVEN IUVS. Geophysical Research Letters, 2015, 42, 9057-9063.	1.5	43

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37	Retrieval of CO₂ and N₂ in the Martian thermosphere using dayglow observations by IUVS on MAVEN. Geophysical Research Letters, 2015, 42, 9040-9049.	1.5	43
38	Study of the Martian cold oxygen corona from the Oâ€‰I 130.4â€‰nm by IUVS/MAVEN. Geophysical Research Letters, 2015, 42, 9031-9039.	1.5	21
39	The structure and variability of Mars upper atmosphere as seen in MAVEN/IUVS dayglow observations. Geophysical Research Letters, 2015, 42, 9023-9030.	1.5	95
40	Threeâ€dimensional structure in the Mars H corona revealed by IUVS on MAVEN. Geophysical Research Letters, 2015, 42, 9001-9008.	1.5	67
41	MAVEN IUVS observation of the hot oxygen corona at Mars. Geophysical Research Letters, 2015, 42, 9009-9014.	1.5	77
42	New observations of molecular nitrogen in the Martian upper atmosphere by IUVS on MAVEN. Geophysical Research Letters, 2015, 42, 9050-9056.	1.5	41
43	A strong seasonal dependence in the Martian hydrogen exosphere. Geophysical Research Letters, 2015, 42, 8678-8685.	1.5	86
44	Probing the Martian atmosphere with MAVEN/IUVS stellar occultations. Geophysical Research Letters, 2015, 42, 9064-9070.	1.5	42
45	Transient internally driven aurora at Jupiter discovered by Hisaki and the Hubble Space Telescope. Geophysical Research Letters, 2015, 42, 1662-1668.	1.5	53
46	The Imaging Ultraviolet Spectrograph (IUVS) for the MAVEN Mission. Space Science Reviews, 2015, 195, 75-124.	3.7	139
47	HUBBLE SPACE TELESCOPEOBSERVATIONS OF THE NUV TRANSIT OF WASP-12b. Astrophysical Journal, 2015, 803, 9.	1.6	59
48	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. Space Science Reviews, 2015, 195, 3-48.	3.7	563
49	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. Science, 2015, 350, aad0210.	6.0	166
50	Discovery of diffuse aurora on Mars. Science, 2015, 350, aad0313.	6.0	98
51	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. Science, 2015, 350, aad0459.	6.0	90
52	Dynamic auroral storms on Saturn as observed by the Hubble Space Telescope. Geophysical Research Letters, 2014, 41, 3323-3330.	1.5	43
53	OBSERVATIONS OF THE INTERPLANETARY HYDROGEN DURING SOLAR CYCLES 23 AND 24. WHAT CAN WE DEDUCE ABOUT THE LOCAL INTERSTELLAR MEDIUM?. Astrophysical Journal Letters, 2014, 788, L25.	3.0	15
54	Open flux in Saturnâ€™s magnetosphere. Icarus, 2014, 231, 137-145.	1.1	43

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55	Mapping the electron energy in Jupiter's aurora: Hubble spectral observations. Journal of Geophysical Research: Space Physics, 2014, 119, 9072-9088.	0.8	47
56	A rapid decrease of the hydrogen corona of Mars. Geophysical Research Letters, 2014, 41, 8013-8020.	1.5	98
57	Longitudinal modulation of the brightness of Io's auroral footprint emission: Comparison with models. Journal of Geophysical Research: Space Physics, 2013, 118, 3336-3345.	0.8	9
58	The multiple spots of the Ganymede auroral footprint. Geophysical Research Letters, 2013, 40, 4977-4981.	1.5	31
59	A New Catalog of Ultraviolet Stellar Spectra for Calibration. , 2013, , 191-226.		23
60	ORIGIN OF ELECTRON CYCLOTRON MASER INDUCED RADIO EMISSIONS AT ULTRACOOL DWARFS: MAGNETOSPHERE-IONOSPHERE COUPLING CURRENTS. Astrophysical Journal, 2012, 760, 59.	1.6	66
61	Auroral evidence of Io's control over the magnetosphere of Jupiter. Geophysical Research Letters, 2012, 39, .	1.5	111
62	Earthâ€based detection of Uranus' aurorae. Geophysical Research Letters, 2012, 39, .	1.5	51
63	Modeling of Jupiter's auroral curtain and upper atmospheric thermal structure. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	4
64	The auroral footprint of Enceladus on Saturn. Nature, 2011, 472, 331-333.	13.7	82
65	Ten years of Hubble Space Telescope observations of the variation of the Jovian satellites' auroral footprint brightness. Journal of Geophysical Research, 2010, 115, .	3.3	30
66	Asymmetry in the Jovian auroral Lymanâ€Î± line profile due to thermospheric highâ€speed flow. Journal of Geophysical Research, 2010, 115, .	3.3	9
67	Variation of Saturn's UV aurora with SKR phase. Geophysical Research Letters, 2010, 37, .	1.5	57
68	Observations of Jovian polar auroral filaments. Geophysical Research Letters, 2009, 36, .	1.5	37
69	Saturn's equinoctial auroras. Geophysical Research Letters, 2009, 36, .	1.5	37
70	Variation of different components of Jupiter's auroral emission. Journal of Geophysical Research, 2009, 114, .	3.3	95
71	Auroral footprint of Ganymede. Journal of Geophysical Research, 2009, 114, .	3.3	44
72	The Io UV footprint: Location, interâ€spot distances and tail vertical extent. Journal of Geophysical Research, 2009, 114, .	3.3	77

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73	An auroral oval at the footprint of Saturn's kilometric radio sources, colocated with the UV aurorae. Journal of Geophysical Research, 2009, 114, .	3.3	65
74	Altitude of Saturn's aurora and its implications for the characteristic energy of precipitated electrons. Geophysical Research Letters, 2009, 36, .	1.5	81
75	Transient auroral features at Saturn: Signatures of energetic particle injections in the magnetosphere. Journal of Geophysical Research, 2009, 114, .	3.3	35
76	Response of Jupiter's and Saturn's auroral activity to the solar wind. Journal of Geophysical Research, 2009, 114, .	3.3	161
77	Auroral Processes. , 2009, , 333-374.		34
78	The variation of Io's auroral footprint brightness with the location of Io in the plasma torus. Icarus, 2008, 197, 368-374.	1.1	16
79	Auroral polar dawn spots: Signatures of internally driven reconnection processes at Jupiter's magnetotail. Geophysical Research Letters, 2008, 35, .	1.5	53
80	Interaction evidence between Enceladus' atmosphere and Saturn's magnetosphere. Journal of Geophysical Research, 2008, 113, .	3.3	16
81	Identification of Saturn's magnetospheric regions and associated plasma processes: Synopsis of Cassini observations during orbit insertion. Reviews of Geophysics, 2008, 46, .	9.0	23
82	Auroral evidence of a localized magnetic anomaly in Jupiter's northern hemisphere. Journal of Geophysical Research, 2008, 113, .	3.3	89
83	Origin of Saturn's aurora: Simultaneous observations by Cassini and the Hubble Space Telescope. Journal of Geophysical Research, 2008, 113, .	3.3	127
84	Oscillation of Saturn's southern auroral oval. Journal of Geophysical Research, 2008, 113, .	3.3	88
85	Auroral current systems in Saturn's magnetosphere: comparison of theoretical models with Cassini and HST observations. Annales Geophysicae, 2008, 26, 2613-2630.	0.6	60
86	Jupiter's Nightside Airglow and Aurora. Science, 2007, 318, 229-231.	6.0	24
87	Response of Jupiter's UV auroras to interplanetary conditions as observed by the Hubble Space Telescope during the Cassini flyby campaign. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	66
88	Europa's FUV auroral tail on Jupiter. Geophysical Research Letters, 2006, 33, .	1.5	29
89	Morphology of the ultraviolet Io footprint emission and its control by Io's location. Journal of Geophysical Research, 2006, 111, .	3.3	50
90	Characteristics of Jovian morning bright FUV aurora from Hubble Space Telescope/Space Telescope Imaging Spectrograph imaging and spectral observations. Journal of Geophysical Research, 2006, 111, .	3.3	48

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91	Saturn's auroral morphology and activity during quiet magnetospheric conditions. Journal of Geophysical Research, 2006, 111, .	3.3	35
92	Interplanetary LymanÎ±line profiles: variations with solar activity cycle. Astronomy and Astrophysics, 2006, 455, 1135-1142.	2.1	19
93	Hot Hydrogen in the Jovian Corona. Highlights of Astronomy, 2005, 13, 917-917.	0.0	0
94	Cassini UVIS observations of Jupiter's auroral variability. Icarus, 2005, 178, 312-326.	1.1	39
95	Morphological differences between Saturn's ultraviolet aurorae and those of Earth and Jupiter. Nature, 2005, 433, 717-719.	13.7	155
96	Solar wind dynamic pressure and electric field as the main factors controlling Saturn's aurorae. Nature, 2005, 433, 720-722.	13.7	126
97	An Earth-like correspondence between Saturn's auroral features and radio emission. Nature, 2005, 433, 722-725.	13.7	104
98	Effects of ring shadowing on the detection of electrostatic discharges at Saturn. Geophysical Research Letters, 2005, 32, .	1.5	20
99	Reconnection in a rotation-dominated magnetosphere and its relation to Saturn's auroral dynamics. Journal of Geophysical Research, 2005, 110, .	3.3	151
100	Variable morphology of Saturn's southern ultraviolet aurora. Journal of Geophysical Research, 2005, 110, .	3.3	96
101	Interplanetary conditions and magnetospheric dynamics during the Cassini orbit insertion fly-through of Saturn's magnetosphere. Journal of Geophysical Research, 2005, 110, .	3.3	33
102	Signature of Saturn's auroral cusp: Simultaneous Hubble Space Telescope FUV observations and upstream solar wind monitoring. Journal of Geophysical Research, 2005, 110, .	3.3	52
103	Open flux estimates in Saturn's magnetosphere during the January 2004 Cassini-HST campaign, and implications for reconnection rates. Journal of Geophysical Research, 2005, 110, .	3.3	92
104	A possible auroral signature of a magnetotail reconnection process on Jupiter. Journal of Geophysical Research, 2004, 109, .	3.3	64
105	Energy-flux relationship in the FUV Jovian aurora deduced from HST-STIS spectral observations. Journal of Geophysical Research, 2004, 109, .	3.3	55
106	Characteristics of Saturn's FUV aurora observed with the Space Telescope Imaging Spectrograph. Journal of Geophysical Research, 2004, 109, .	3.3	84
107	Spectral observations of transient features in the FUV Jovian polar aurora. Journal of Geophysical Research, 2003, 108, .	3.3	35
108	Jupiter's main auroral oval observed with HST-STIS. Journal of Geophysical Research, 2003, 108, .	3.3	157

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109	Jupiter's polar auroral emissions. Journal of Geophysical Research, 2003, 108, .	3.3	135
110	Ultraviolet Remote Sensing Techniques for Planetary Aeronomy. Geophysical Monograph Series, 2002, , 339-351.	0.1	1
111	Excitation of the FUV Io tail on Jupiter: Characterization of the electron precipitation. Journal of Geophysical Research, 2002, 107, SMP 30-1.	3.3	59
112	A pulsating auroral X-ray hot spot on Jupiter. Nature, 2002, 415, 1000-1003.	13.7	183
113	Transient aurora on Jupiter from injections of magnetospheric electrons. Nature, 2002, 415, 1003-1005.	13.7	98
114	Ultraviolet emissions from the magnetic footprints of Io, Ganymede and Europa on Jupiter. Nature, 2002, 415, 997-1000.	13.7	203
115	An auroral flare at Jupiter. Nature, 2001, 410, 787-789.	13.7	130
116	Hubble Space Telescope imaging of Jupiter's UV aurora during the Galileo orbiter mission. Journal of Geophysical Research, 1998, 103, 20217-20236.	3.3	170
117	Saturn's hydrogen aurora: Wide field and planetary camera 2 imaging from the Hubble Space Telescope. Journal of Geophysical Research, 1998, 103, 20237-20244.	3.3	66
118	HST/GHRS Observations of the Velocity Structure of Interplanetary Hydrogen. Astrophysical Journal, 1998, 499, 482-488.	1.6	43
119	Far-Ultraviolet Imaging of Jupiter's Aurora and the Io "Footprint". Science, 1996, 274, 404-409.	6.0	189
120	Time-Resolved Observations of Jupiter's Far-Ultraviolet Aurora. Science, 1996, 274, 409-413.	6.0	78
121	H I Lyman alpha emission from Saturn (1980â€1990). Journal of Geophysical Research, 1992, 97, 13691-13703.	3.3	27
122	IUE detection of bursts of H LYÎ± emission from Saturn. Nature, 1981, 290, 226-227.	13.7	50
123	Identification of the UV nightglow from Venus. Nature, 1979, 279, 221-222.	13.7	77
124	Auroral Processes on Jupiter and Saturn. Geophysical Monograph Series, 0, , 113-122.	0.1	14