D J Andrews

List of Publications by Year
in descending order

75 papers	2,773 citations	126708 33 h-index	182168 51 g-index
77 all docs	77 docs citations	77 times ranked	1678 citing authors

#	Article	IF	Citations
1	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
2	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. Science, 2015, 350, aad0210.	6.0	166
3	Dayside electron temperature and density profiles at Mars: First results from the MAVEN Langmuir probe and waves instrument. Geophysical Research Letters, 2015, 42, 8846-8853.	1.5	116
4	Planetary period oscillations in Saturn's magnetosphere: Phase relation of equatorial magnetic field oscillations and Saturn kilometric radiation modulation. Journal of Geophysical Research, 2008, 113, .	3.3	98
5	Magnetospheric period oscillations at Saturn: Comparison of equatorial and highâ€latitude magnetic field periods with north and south Saturn kilometric radiation periods. Journal of Geophysical Research, 2010, 115, .	3.3	92
6	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. Science, 2015, 350, aad0459.	6.0	90
7	Planetary period oscillations in Saturn's magnetosphere: Evolution of magnetic oscillation properties from southern summer to postâ€equinox. Journal of Geophysical Research, 2012, 117, .	3.3	88
8	Interplanetary coronal mass ejection observed at STEREOâ€A, Mars, comet 67P/Churyumovâ€Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9ÂAU. Journal of Geophysical Research: Space Physics, 2017, 122, 7865-7890.	0.8	87
9	Periodic motion of Saturn's nightside plasma sheet. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	84
10	Polarization and phase of planetaryâ€period magnetic field oscillations on highâ€latitude field lines in Saturn's magnetosphere. Journal of Geophysical Research, 2009, 114, .	3.3	83
11	Dual periodicities in planetaryâ€period magnetic field oscillations in Saturn's tail. Journal of Geophysical Research, 2012, 117, .	3.3	70
12	Magnetic field oscillations near the planetary period in Saturn's equatorial magnetosphere: Variation of amplitude and phase with radial distance and local time. Journal of Geophysical Research, 2010, 115, .	3.3	66
13	Magnetospheric period magnetic field oscillations at Saturn: Equatorial phase â€œjitterâ€•produced by superposition of southern and northern period oscillations. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	62
14	The first in situ electron temperature and density measurements of the Martian nightside ionosphere. Geophysical Research Letters, 2015, 42, 8854-8861.	1.5	62
15	Planetary period magnetic field oscillations in Saturn's magnetosphere: Postequinox abrupt nonmonotonic transitions to northern system dominance. Journal of Geophysical Research: Space Physics, 2013, 118, 3243-3264.	0.8	58
16	Modulation of Jupiter's plasma flow, polar currents, and auroral precipitation by solar wind-induced compressions and expansions of the magnetosphere: a simple theoretical model. Annales Geophysicae, 2007, 25, 1433-1463.	0.6	56
17	Cassini observations of planetary-period oscillations of Saturn's magnetopause. Geophysical Research Letters, 2006, 33, .	1.5	51
18	Magnetopause oscillations near the planetary period at Saturn: Occurrence, phase, and amplitude. Journal of Geophysical Research, 2010, 115, .	3.3	48

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19	Enhanced O₂⁺ loss at Mars due to an ambipolar electric field from electron heating. Journal of Geophysical Research: Space Physics, 2016, 121, 4668-4678.	0.8	48
20	Control of the topside Martian ionosphere by crustal magnetic fields. Journal of Geophysical Research: Space Physics, 2015, 120, 3042-3058.	0.8	45
21	Planetary period oscillations in Saturn's magnetosphere: Evidence in magnetic field phase data for rotational modulation of Saturn kilometric radiation emissions. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	44
22	Annual variations in the Martian bow shock location as observed by the Mars Express mission. Journal of Geophysical Research: Space Physics, 2016, 121, 11,474.	0.8	44
23	Mars ionospheric response to solar wind variability. Journal of Geophysical Research: Space Physics, 2013, 118, 6558-6587.	0.8	42
24	CME impact on comet 67P/Churyumov-Gerasimenko. Monthly Notices of the Royal Astronomical Society, 2016, 462, S45-S56.	1.6	42
25	Effects of a strong ICME on the Martian ionosphere as detected by Mars Express and Mars Odyssey. Journal of Geophysical Research: Space Physics, 2014, 119, 5891-5908.	0.8	41
26	Oblique reflections in the Mars Express MARSIS data set: Stable density structures in the Martian ionosphere. Journal of Geophysical Research: Space Physics, 2014, 119, 3944-3960.	0.8	41
27	Dust observations at orbital altitudes surrounding Mars. Science, 2015, 350, aad0398.	6.0	41
28	In situ measurements of Saturnâ€™s ionosphere show that it is dynamic and interacts with the rings. Science, 2018, 359, 66-68.	6.0	40
29	Determination of local plasma densities with the MARSIS radar: Asymmetries in the highâ€'altitude Martian ionosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 6228-6242.	0.8	38
30	Solar cycle modulation of Titan's ionosphere. Journal of Geophysical Research: Space Physics, 2013, 118, 5255-5264.	0.8	38
31	Magnetospheric period oscillations of Saturn's bow shock. Journal of Geophysical Research, 2010, 115, .	3.3	34
32	Structured ionospheric outflow during the Cassini T55â€“T59 Titan flybys. Planetary and Space Science, 2011, 59, 788-797.	0.9	34
33	Rotational modulation and local time dependence of Saturn's infrared H₃⁺ auroral intensity. Journal of Geophysical Research, 2012, 117, .	3.3	33
34	Solar wind interaction with comet 67P: Impacts of corotating interaction regions. Journal of Geophysical Research: Space Physics, 2016, 121, 949-965.	0.8	33
35	Martian ionosphere observed by Mars Express. 1. Influence of the crustal magnetic fields. Planetary and Space Science, 2016, 124, 62-75.	0.9	32
36	Ionospheric plasma density variations observed at Mars by MAVEN/LPW. Geophysical Research Letters, 2015, 42, 8862-8869.	1.5	32

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37	Empirical model of the Martian dayside ionosphere: Effects of crustal magnetic fields and solar ionizing flux at higher altitudes. Journal of Geophysical Research: Space Physics, 2016, 121, 1760-1771.	0.8	31
38	Electric and magnetic variations in the nearâ€Mars environment. Journal of Geophysical Research: Space Physics, 2017, 122, 8536-8559.	0.8	30
39	Extreme densities in Titan's ionosphere during the T85 magnetosheath encounter. Geophysical Research Letters, 2013, 40, 2879-2883.	1.5	27
40	Saturn's Dusty Ionosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 1679-1697.	0.8	27
41	Cold ion escape from the Martian ionosphere. Planetary and Space Science, 2015, 119, 92-102.	0.9	26
42	Saturn Plasma Sources and Associated Transport Processes. Space Science Reviews, 2015, 192, 237-283.	3.7	25
43	Mars plasma system response to solar wind disturbances during solar minimum. Journal of Geophysical Research: Space Physics, 2017, 122, 6611-6634.	0.8	24
44	Detection of currents and associated electric fields in Titan's ionosphere from Cassini data. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	23
45	Ion and aerosol precursor densities in Titan's ionosphere: A multiâ€instrument case study. Journal of Geophysical Research: Space Physics, 2016, 121, 10075-10090.	0.8	23
46	A survey of superthermal electron flux depressions, or â€œelectron holes,â€•within the illuminated Martian induced magnetosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 4835-4857.	0.8	22
47	Discrepancy between ionopause and photoelectron boundary determined from Mars Express measurements. Geophysical Research Letters, 2014, 41, 8221-8227.	1.5	21
48	MARSIS remote sounding of localized density structures in the dayside Martian ionosphere: A study of controlling parameters. Journal of Geophysical Research: Space Physics, 2015, 120, 8125-8145.	0.8	20
49	Saturn's Ionosphere: Electron Density Altitude Profiles and Dâ€Ring Interaction From The Cassini Grand Finale. Geophysical Research Letters, 2019, 46, 9362-9369.	1.5	20
50	Cassini nightside observations of the oscillatory motion of Saturn's northern auroral oval. Journal of Geophysical Research: Space Physics, 2014, 119, 3528-3543.	0.8	17
51	Martian ionosphere observed by Mars Express. 2. Influence of solar irradiance on upper ionosphere and escape fluxes. Planetary and Space Science, 2017, 145, 1-8.	0.9	14
52	Characterizing Average Electron Densities in the Martian Dayside Upper Ionosphere. Journal of Geophysical Research E: Planets, 2019, 124, 76-93.	1.5	13
53	The morphology of the topside ionosphere of Mars under different solar wind conditions: Results of a multi-instrument observing campaign by Mars Express in 2010. Planetary and Space Science, 2016, 120, 24-34.	0.9	12
54	Effects of Saturn's magnetospheric dynamics on Titan's ionosphere. Journal of Geophysical Research: Space Physics, 2015, 120, 8884-8898.	0.8	11

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55	Comment on â€œA new approach to Saturn's periodicitiesâ€•by J. F. Carbary. Journal of Geophysical Research: Space Physics, 2016, 121, 2418-2422.	0.8	11
56	Plasma observations during the Mars atmospheric â€œplumeâ€•event of Marchâ€“April 2012. Journal of Geophysical Research: Space Physics, 2016, 121, 3139-3154.	0.8	10
57	The Structure of Planetary Period Oscillations in Saturn's Equatorial Magnetosphere: Results From the CassiniÂMission. Journal of Geophysical Research: Space Physics, 2019, 124, 8361-8395.	0.8	9
58	Marsâ€™ plasma system. Scientific potential of coordinated multipoint missions: â€œThe next generationâ€• Experimental Astronomy, 2022, 54, 641-676.	1.6	9
59	The Dusty Plasma Disk Around the Janus/Epimetheus Ring. Journal of Geophysical Research: Space Physics, 2018, 123, 4668-4678.	0.8	8
60	Electron densities in the ionosphere of Mars: A comparison of MARSIS and radio occultation measurements. Journal of Geophysical Research: Space Physics, 2016, 121, 10,241.	0.8	6
61	Ionospheric Electron Densities at Mars: Comparison of Mars Express Ionospheric Sounding and MAVEN Local Measurements. Journal of Geophysical Research: Space Physics, 2017, 122, 12,393.	0.8	6
62	Comment on â€œMagnetic phase structure of Saturn's 10.7â€‰h oscillationsâ€•by Yates et al.. Journal of Geophysical Research: Space Physics, 2015, 120, 5686-5690.	0.8	5
63	Ions Accelerated by Sounderâ€Plasma Interaction as Observed by Mars Express. Journal of Geophysical Research: Space Physics, 2018, 123, 9802-9814.	0.8	5
64	Solar flares observed by Rosetta at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A49.	2.1	4
65	Mars Express Observations of Cold Plasma Structures in the Martian Magnetotail. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028056.	0.8	4
66	Transport and chemical loss rates in Saturn's inner plasma disk. Journal of Geophysical Research: Space Physics, 2016, 121, 2321-2334.	0.8	3
67	Mars' Ionospheric Interaction With Comet C/2013 A1 Siding Spring's Coma at Their Closest Approach as Seen by Mars Express. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027344.	0.8	3
68	Titan's Variable Ionosphere During the T118 and T119 Cassini Flybys. Geophysical Research Letters, 2018, 45, 8721-8728.	1.5	2
69	MARSIS Observations of Fieldâ€Aligned Irregularities and Ducted Radio Propagation in the Martian Ionosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 6251-6263.	0.8	2
70	A Twoâ€Spacecraft Study of Mars' Induced Magnetosphere's Response to Upstream Conditions. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	2
71	Oblique Reflections of Mars Express MARSIS Radar Signals From Ionospheric Density Structures: Raytracing Analysis. Journal of Geophysical Research E: Planets, 2019, 124, 1177-1187.	1.5	1
72	Observations of Sounder Accelerated Electrons by Mars Express. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027206.	0.8	1

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73	Saturn Plasma Sources and Associated Transport Processes. Space Sciences Series of ISSI, 2016, , 237-283.	0.0	1
74	The Cassini RPWS/LP Observations of Dusty Plasma in the Kronian System. Proceedings of the International Astronomical Union, 2018, 14, 415-416.	0.0	0
75	In Situ Electron Density From Active Sounding: The Influence of the Spacecraft Wake. Geophysical Research Letters, 2019, 46, 10250-10256.	1.5	0