Glyn A Collinson

List of Publications by Year
in descending order

55 papers	2,820 citations	279798 23 h-index	168389 53 g-index
55 all docs	55 docs citations	55 times ranked	2545 citing authors

#	Article	IF	Citations
1	Fast Plasma Investigation for Magnetospheric Multiscale. Space Science Reviews, 2016, 199, 331-406.	8.1	960
2	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.	2.5	216
3	Structure, dynamics, and seasonal variability of the Marsâ€solar wind interaction: MAVEN Solar Wind Ion Analyzer inâ€flight performance and science results. Journal of Geophysical Research: Space Physics, 2017, 122, 547-578.	2.4	191
4	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. Science, 2015, 350, aad0210.	12.6	166
5	Impact of space weather on climate and habitability of terrestrial-type exoplanets. International Journal of Astrobiology, 2020, 19, 136-194.	1.6	125
6	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. Science, 2015, 350, aad0459.	12.6	90
7	Magnetic reconnection in the nearâ€Mars magnetotail: MAVEN observations. Geophysical Research Letters, 2015, 42, 8838-8845.	4.0	59
8	The science case for an orbital mission to Uranus: Exploring the origins and evolution of ice giant planets. Planetary and Space Science, 2014, 104, 122-140.	1.7	56
9	Magnetotail dynamics at Mars: Initial MAVEN observations. Geophysical Research Letters, 2015, 42, 8828-8837.	4.0	52
10	Penetrators for in situ subsurface investigations of Europa. Advances in Space Research, 2011, 48, 725-742.	2.6	51
11	Ionospheric photoelectrons at Venus: Initial observations by ASPERA-4 ELS. Planetary and Space Science, 2008, 56, 802-806.	1.7	48
12	Uranus Pathfinder: exploring the origins and evolution of Ice Giant planets. Experimental Astronomy, 2012, 33, 753-791.	3.7	44
13	PROPAGATION OF THE 2014 JANUARY 7 CME AND RESULTING GEOMAGNETIC NON-EVENT. Astrophysical Journal, 2015, 812, 145.	4.5	43
14	MAVEN Observations of Solar Windâ€Driven Magnetosonic Waves Heating the Martian Dayside Ionosphere. Journal of Geophysical Research: Space Physics, 2018, 123, 4129-4149.	2.4	40
15	Electric Mars: The first direct measurement of an upper limit for the Martian â€œpolar windâ€• electric potential. Geophysical Research Letters, 2015, 42, 9128-9134.	4.0	38
16	Hot flow anomalies at Venus. Journal of Geophysical Research, 2012, 117, .	3.3	35
17	The role of the Hall effect in the global structure and dynamics of planetary magnetospheres: Ganymede as a case study. Journal of Geophysical Research: Space Physics, 2015, 120, 5377-5392.	2.4	35
18	Solar Wind Induced Waves in the Skies of Mars: Ionospheric Compression, Energization, and Escape Resulting From the Impact of Ultralow Frequency Magnetosonic Waves Generated Upstream of the Martian Bow Shock. Journal of Geophysical Research: Space Physics, 2018, 123, 7241-7256.	2.4	32

#	Article	IF	Citations
19	The electric wind of Venus: A global and persistent â€œpolar windâ€â€like ambipolar electric field sufficient for the direct escape of heavy ionospheric ions. Geophysical Research Letters, 2016, 43, 5926-5934.	4.0	31
20	Fieldâ€Aligned Potentials at Mars From MAVEN Observations. Geophysical Research Letters, 2018, 45, 10,119.	4.0	31
21	Electron optical study of the Venus Express ASPERA-4 Electron Spectrometer (ELS) top-hat electrostatic analyser. Measurement Science and Technology, 2009, 20, 055204.	2.6	30
22	The geometric factor of electrostatic plasma analyzers: A case study from the Fast Plasma Investigation for the Magnetospheric Multiscale mission. Review of Scientific Instruments, 2012, 83, 033303.	1.3	30
23	Unique, nonâ€Earthlike, meteoritic ion behavior in upper atmosphere of Mars. Geophysical Research Letters, 2017, 44, 3066-3072.	4.0	30
24	Properties of planetward ion flows in Venusâ€™ magnetotail. Icarus, 2016, 274, 73-82.	2.5	25
25	Active current sheets and candidate hot flow anomalies upstream of Mercury's bow shock. Journal of Geophysical Research: Space Physics, 2014, 119, 853-876.	2.4	22
26	A survey of hot flow anomalies at Venus. Journal of Geophysical Research: Space Physics, 2014, 119, 978-991.	2.4	21
27	Ionospheric Ambipolar Electric Fields of Mars and Venus: Comparisons Between Theoretical Predictions and Direct Observations of the Electric Potential Drop. Geophysical Research Letters, 2019, 46, 1168-1176.	4.0	21
28	A hot flow anomaly at Mars. Geophysical Research Letters, 2015, 42, 9121-9127.	4.0	20
29	New Results From <i>Galileo</i>'s First Flyby of Ganymede: Reconnectionâ€Driven Flows at the Lowâ€Latitude Magnetopause Boundary, Crossing the Cusp, and Icy Ionospheric Escape. Geophysical Research Letters, 2018, 45, 3382-3392.	4.0	20
30	MAVEN observation of an obliquely propagating lowâ€frequency wave upstream of Mars. Journal of Geophysical Research: Space Physics, 2016, 121, 2374-2389.	2.4	19
31	Short largeâ€amplitude magnetic structures (SLAMS) at Venus. Journal of Geophysical Research, 2012, 117, .	3.3	17
32	The extension of ionospheric holes into the tail of Venus. Journal of Geophysical Research: Space Physics, 2014, 119, 6940-6953.	2.4	17
33	Structure and Properties of the Foreshock at Venus. Journal of Geophysical Research: Space Physics, 2017, 122, 10,275.	2.4	17
34	Electric Mars: A large transâ€terminator electric potential drop on closed magnetic field lines above Utopia Planitia. Journal of Geophysical Research: Space Physics, 2017, 122, 2260-2271.	2.4	16
35	Lunar Netâ€"a proposal in response to an ESA M3 call in 2010 for a medium sized mission. Experimental Astronomy, 2012, 33, 587-644.	3.7	15
36	Spontaneous hot flow anomalies at Mars and Venus. Journal of Geophysical Research: Space Physics, 2017, 122, 9910-9923.	2.4	15

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37	The impact of a slow interplanetary coronal mass ejection on Venus. Journal of Geophysical Research: Space Physics, 2015, 120, 3489-3502.	2.4	14
38	Fieldâ€Aligned Electrostatic Potentials Above the Martian Exobase From MGS Electron Reflectometry: Structure and Variability. Journal of Geophysical Research E: Planets, 2018, 123, 67-92.	3.6	14
39	Foreshock Bubbles at Venus: Hybrid Simulations and VEX Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027056.	2.4	14
40	Constantly forming sporadic E-like layers and rifts in the Martian ionosphere and their implications for Earth. Nature Astronomy, 2020, 4, 486-491.	10.1	14
41	Traveling Ionospheric Disturbances at Mars. Geophysical Research Letters, 2019, 46, 4554-4563.	4.0	13
42	On variable geometric factor systems for top-hat electrostatic space plasma analyzers. Measurement Science and Technology, 2010, 21, 105903.	2.6	10
43	Locally Generated ULF Waves in the Martian Magnetosphere: MAVEN Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 8707-8726.	2.4	8
44	A hybrid electrostatic retarding potential analyzer for the measurement of plasmas at extremely high energy resolution. Review of Scientific Instruments, 2018, 89, 113306.	1.3	7
45	Foreshock Cavities at Venus and Mars. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028023.	2.4	7
46	Depleted Plasma Densities in the Ionosphere of Venus Near Solar Minimum From <i>Parker Solar Probe</i> Observations of Upper Hybrid Resonance Emission. Geophysical Research Letters, 2021, 48, e2020GL092243.	4.0	7
47	â€œSnowplowâ€•injection front effects. Journal of Geophysical Research: Space Physics, 2013, 118, 6478-6488.	2.4	6
48	MAVEN Case Studies of Plasma Dynamics in Lowâ€Altitude Crustal Magnetic Field at Mars 1: Dayside Ion Spikes Associated With Radial Crustal Magnetic Fields. Journal of Geophysical Research: Space Physics, 2019, 124, 1239-1261.	2.4	6
49	A Revised Understanding of the Structure of the Venusian Magnetotail From a Highâ€Altitude Intercept With a Tail Ray by Parker Solar Probe. Geophysical Research Letters, 2022, 49, .	4.0	5
50	The Solar Wind at (16) Psyche: Predictions for a Metal World. Astrophysical Journal, 2022, 927, 202.	4.5	4
51	Constraining electric fields from electrostatic deflector plates: A brief report and case study from the Fast Plasma Investigation for the Magnetospheric Multiscale Mission. Journal of Geophysical Research: Space Physics, 2016, 121, 7887-7894.	2.4	3
52	Validation of single spacecraft methods for collisionless shock velocity estimation. Journal of Geophysical Research: Space Physics, 2017, 122, 8632-8641.	2.4	3
53	Fast Plasma Investigation for Magnetospheric Multiscale. , 2017, , 329-404.		3
54	A study of ionopause perturbation and associated boundary wave formation at Venus. Journal of Geophysical Research: Space Physics, 2017, 122, 4284-4298.	2.4	2

#	Article	IF	Citations
55	The Endurance Rocket Mission. Space Science Reviews, 2022, 218, .	8.1	2