J S Halekas

List of Publications by Year
in descending order

346 papers	12,919 citations	26626 56 h-index	40976 93 g-index
377 all docs	377 docs citations	377 times ranked	3875 citing authors

#	Article	IF	Citations
1	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. Space Science Reviews, 2015, 195, 3-48.	8.1	563
2	Solar Wind Electrons Alphas and Protons (SWEAP) Investigation: Design of the Solar Wind and Coronal Plasma Instrument Suite for Solar Probe Plus. Space Science Reviews, 2016, 204, 131-186.	8.1	439
3	The Space Physics Environment Data Analysis System (SPEDAS). Space Science Reviews, 2019, 215, 9.	8.1	332
4	AlfvÃ©nic velocity spikes and rotational flows in the near-Sun solar wind. Nature, 2019, 576, 228-231.	27.8	311
5	The Solar Wind Ion Analyzer for MAVEN. Space Science Reviews, 2015, 195, 125-151.	8.1	300
6	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
7	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
8	Initial mapping and interpretation of lunar crustal magnetic anomalies using Lunar Prospector magnetometer data. Journal of Geophysical Research, 2001, 106, 27825-27839.	3.3	187
9	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. Science, 2015, 350, aad0210.	12.6	166
10	Global mapping of lunar crustal magnetic fields by Lunar Prospector. Icarus, 2008, 194, 401-409.	2.5	162
11	Electron pitch angle distributions as indicators of magnetic field topology near Mars. Journal of Geophysical Research, 2007, 112, .	3.3	153
12	Strong plume fluxes at Mars observed by MAVEN: An important planetary ion escape channel. Geophysical Research Letters, 2015, 42, 8942-8950.	4.0	143
13	On the origin of aurorae on Mars. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	139
14	Electrons and magnetic fields in the lunar plasma wake. Journal of Geophysical Research, 2005, 110, .	3.3	133
15	Mapping of crustal magnetic anomalies on the lunar near side by the Lunar Prospector electron reflectometer. Journal of Geophysical Research, 2001, 106, 27841-27852.	3.3	132
16	Lunar Prospector observations of the electrostatic potential of the lunar surface and its response to incident currents. Journal of Geophysical Research, 2008, 113, .	3.3	125
17	Variability of the altitude of the Martian sheath. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	121
18	The spatial distribution of planetary ion fluxes near Mars observed by MAVEN. Geophysical Research Letters, 2015, 42, 9142-9148.	4.0	115

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19	The Solar Probe ANalyzersâ€"Electrons on the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 74.	7.7	114
20	Hydrogen escape from Mars enhanced by deep convection in dust storms. Nature Astronomy, 2018, 2, 126-132.	10.1	112
21	A comparison of global models for the solar wind interaction with Mars. Icarus, 2010, 206, 139-151.	2.5	108
22	New views of the lunar plasma environment. Planetary and Space Science, 2011, 59, 1681-1694.	1.7	108
23	Photochemical escape of oxygen from Mars: First results from MAVEN in situ data. Journal of Geophysical Research: Space Physics, 2017, 122, 3815-3836.	2.4	106
24	<i>Parker Solar Probe</i> Enters the Magnetically Dominated Solar Corona. Physical Review Letters, 2021, 127, 255101.	7.8	104
25	First results of the <scp>MAVEN</scp> magnetic field investigation. Geophysical Research Letters, 2015, 42, 8819-8827.	4.0	102
26	Electrons in the Young Solar Wind: First Results from the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 22.	7.7	99
27	Episodic detachment of Martian crustal magnetic fields leading to bulk atmospheric plasma escape. Geophysical Research Letters, 2010, 37, .	4.0	97
28	Evidence for collisionless magnetic reconnection at Mars. Geophysical Research Letters, 2008, 35, .	4.0	94
29	Evidence for negative charging of the lunar surface in shadow. Geophysical Research Letters, 2002, 29, 77-1-77-4.	4.0	90
30	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. Science, 2015, 350, aad0459.	12.6	90
31	Complex electric fields near the lunar terminator: The nearâ€surface wake and accelerated dust. Geophysical Research Letters, 2007, 34, .	4.0	86
32	Time history of the Martian dynamo from crater magnetic field analysis. Journal of Geophysical Research E: Planets, 2013, 118, 1488-1511.	3.6	86
33	Dependence of lunar surface charging on solar wind plasma conditions and solar irradiation. Planetary and Space Science, 2014, 90, 10-27.	1.7	83
34	The magnetic field draping direction at Mars from April 1999 through August 2004. Icarus, 2006, 182, 464-473.	2.5	82
35	Seasonal variability of the hydrogen exosphere of Mars. Journal of Geophysical Research E: Planets, 2017, 122, 901-911.	3.6	81
36	Extreme lunar surface charging during solar energetic particle events. Geophysical Research Letters, 2007, 34, .	4.0	80

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37	Variability of helium, neon, and argon in the lunar exosphere as observed by the LADEE NMS instrument. Geophysical Research Letters, 2015, 42, 3723-3729.	4.0	79
38	MAVEN observations of solar wind hydrogen deposition in the atmosphere of Mars. Geophysical Research Letters, 2015, 42, 8901-8909.	4.0	78
39	MAVEN observations of the solar cycle 24 space weather conditions at Mars. Journal of Geophysical Research: Space Physics, 2017, 122, 2768-2794.	2.4	78
40	Observations and Impacts of the 10 September 2017 Solar Events at Mars: An Overview and Synthesis of the Initial Results. Geophysical Research Letters, 2018, 45, 8871-8885.	4.0	77
41	Anticipated electrical environment within permanently shadowed lunar craters. Journal of Geophysical Research, 2010, 115, .	3.3	73
42	Observations of aurorae by SPICAM ultraviolet spectrograph on board Mars Express: Simultaneous ASPERAâ€3 and MARSIS measurements. Journal of Geophysical Research, 2008, 113, .	3.3	70
43	Solar wind access to lunar polar craters: Feedback between surface charging and plasma expansion. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	68
44	Large negative lunar surface potentials in sunlight and shadow. Geophysical Research Letters, 2005, 32, .	4.0	67
45	A Solar Source of AlfvÃ©nic Magnetic Field Switchbacks: In Situ Remnants of Magnetic Funnels on Supergranulation Scales. Astrophysical Journal, 2021, 923, 174.	4.5	67
46	In situ observations of reconnection Hall magnetic fields at Mars: Evidence for ion diffusion region encounters. Journal of Geophysical Research, 2009, 114, .	3.3	66
47	Seasonal variability of Martian ion escape through the plume and tail from MAVEN observations. Journal of Geophysical Research: Space Physics, 2017, 122, 4009-4022.	2.4	66
48	The Twisted Configuration of the Martian Magnetotail: MAVEN Observations. Geophysical Research Letters, 2018, 45, 4559-4568.	4.0	66
49	Density cavity observed over a strong lunar crustal magnetic anomaly in the solar wind: A mini-magnetosphere?. Planetary and Space Science, 2008, 56, 941-946.	1.7	65
50	Flows, Fields, and Forces in the Marsâ€Solar Wind Interaction. Journal of Geophysical Research: Space Physics, 2017, 122, 11,320.	2.4	64
51	On the role of dust in the lunar ionosphere. Planetary and Space Science, 2011, 59, 1659-1664.	1.7	63
52	Magnetic fields of lunar multiâ€ring impact basins. Meteoritics and Planetary Science, 2003, 38, 565-578.	1.6	62
53	The Mars crustal magnetic field control of plasma boundary locations and atmospheric loss: MHD prediction and comparison with MAVEN. Journal of Geophysical Research: Space Physics, 2017, 122, 4117-4137.	2.4	60
54	Magnetic reconnection in the nearâ€Mars magnetotail: MAVEN observations. Geophysical Research Letters, 2015, 42, 8838-8845.	4.0	59

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55	Origins of the Martian aurora observed by Spectroscopy for Investigation of Characteristics of the Atmosphere of Mars (SPICAM) on board Mars Express. Journal of Geophysical Research, 2006, 111, .	3.3	58
56	MHD model results of solar wind interaction with Mars and comparison with MAVEN plasma observations. Geophysical Research Letters, 2015, 42, 9113-9120.	4.0	58
57	Current sheets at low altitudes in the Martian magnetotail. Geophysical Research Letters, 2006, 33, .	4.0	56
58	Lunar Prospector measurements of secondary electron emission from lunar regolith. Planetary and Space Science, 2009, 57, 78-82.	1.7	56
59	Lunar surface charging during solar energetic particle events: Measurement and prediction. Journal of Geophysical Research, 2009, 114, .	3.3	56
60	MAVEN measured oxygen and hydrogen pickup ions: Probing the Martian exosphere and neutral escape. Journal of Geophysical Research: Space Physics, 2017, 122, 3689-3706.	2.4	55
61	The global current systems of the Martian induced magnetosphere. Nature Astronomy, 2020, 4, 979-985.	10.1	55
62	Anticorrelation between the Bulk Speed and the Electron Temperature in the Pristine Solar Wind: First Results from the <i>Parker Solar Probe</i> and Comparison with <i>Helios</i>. Astrophysical Journal, Supplement Series, 2020, 246, 62.	7.7	55
63	Localized ionization patches in the nighttime ionosphere of Mars and their electrodynamic consequences. Icarus, 2010, 206, 112-119.	2.5	54
64	Multifluid MHD study of the solar wind interaction with Mars' upper atmosphere during the 2015 March 8th ICME event. Geophysical Research Letters, 2015, 42, 9103-9112.	4.0	54
65	MAVEN insights into oxygen pickup ions at Mars. Geophysical Research Letters, 2015, 42, 8870-8876.	4.0	53
66	Correlation of a strong lunar magnetic anomaly with a high-albedo region of the Descartes mountains. Geophysical Research Letters, 2003, 30, .	4.0	52
67	Magnetotail dynamics at Mars: Initial MAVEN observations. Geophysical Research Letters, 2015, 42, 8828-8837.	4.0	52
68	Characterization of Lowâ€Altitude Nightside Martian Magnetic Topology Using Electron Pitch Angle Distributions. Journal of Geophysical Research: Space Physics, 2017, 122, 9777-9789.	2.4	52
69	Relating Streamer Flows to Density and Magnetic Structures at the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 37.	7.7	52
70	Whistler waves observed near lunar crustal magnetic sources. Geophysical Research Letters, 2006, 33, .	4.0	51
71	Negative potentials above the day-side lunar surface in the terrestrial plasma sheet: Evidence of non-monotonic potentials. Geophysical Research Letters, 2011, 38, n/a-n/a.	4.0	50
72	Proton cyclotron waves occurrence rate upstream from Mars observed by MAVEN: Associated variability of the Martian upper atmosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 11,113.	2.4	50

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73	Discovery of a proton aurora at Mars. Nature Astronomy, 2018, 2, 802-807.	10.1	50
74	Characteristic Scales of Magnetic Switchback Patches Near the Sun and Their Possible Association With Solar Supergranulation and Granulation. Astrophysical Journal, 2021, 919, 96.	4.5	50
75	Model calculations of electron precipitation induced ionization patches on the nightside of Mars. Geophysical Research Letters, 2007, 34, .	4.0	47
76	ARTEMIS Science Objectives. Space Science Reviews, 2011, 165, 59-91.	8.1	47
77	Response of Mars O⁺ pickup ions to the 8 March 2015 ICME: Inferences from MAVEN dataâ€based models. Geophysical Research Letters, 2015, 42, 9095-9102.	4.0	47
78	Lunar pickup ions observed by ARTEMIS: Spatial and temporal distribution and constraints on species and source locations. Journal of Geophysical Research, 2012, 117, .	3.3	45
79	Lowâ€frequency waves in the Martian magnetosphere and their response to upstream solar wind driving conditions. Geophysical Research Letters, 2015, 42, 8917-8924.	4.0	45
80	Study of impact demagnetization at Mars using Monte Carlo modeling and multiple altitude data. Journal of Geophysical Research, 2010, 115, .	3.3	44
81	First Results from ARTEMIS, a New Two-Spacecraft Lunar Mission: Counter-Streaming Plasma Populations in the Lunar Wake. Space Science Reviews, 2011, 165, 93-107.	8.1	44
82	First lunar wake passage of ARTEMIS: Discrimination of wake effects and solar wind fluctuations by 3D hybrid simulations. Planetary and Space Science, 2011, 59, 661-671.	1.7	44
83	Statistical Study of Relations Between the Induced Magnetosphere, Ion Composition, and Pressure Balance Boundaries Around Mars Based On MAVEN Observations. Journal of Geophysical Research: Space Physics, 2017, 122, 9723-9737.	2.4	44
84	The Effect of Solar Wind Variations on the Escape of Oxygen Ions From Mars Through Different Channels: MAVEN Observations. Journal of Geophysical Research: Space Physics, 2017, 122, 11,285.	2.4	44
85	Magnetic Reconnection on Dayside Crustal Magnetic Fields at Mars: MAVEN Observations. Geophysical Research Letters, 2018, 45, 4550-4558.	4.0	44
86	Global Aurora on Mars During the September 2017 Space Weather Event. Geophysical Research Letters, 2018, 45, 7391-7398.	4.0	44
87	Loss of solar wind plasma neutrality and affect on surface potentials near the lunar terminator and shadowed polar regions. Geophysical Research Letters, 2008, 35, .	4.0	43
88	A statistical study of flux ropes in the Martian magnetosphere. Planetary and Space Science, 2011, 59, 1498-1505.	1.7	43
89	On the occurrence of magnetic enhancements caused by solar wind interaction with lunar crustal fields. Geophysical Research Letters, 2006, 33, .	4.0	42
90	Detections of lunar exospheric ions by the LADEE neutral mass spectrometer. Geophysical Research Letters, 2015, 42, 5162-5169.	4.0	42

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91	Ionopauseâ€like density gradients in the Martian ionosphere: A first look with MAVEN. Geophysical Research Letters, 2015, 42, 8885-8893.	4.0	42
92	Altitude dependence of nightside Martian suprathermal electron depletions as revealed by MAVEN observations. Geophysical Research Letters, 2015, 42, 8877-8884.	4.0	41
93	ARTEMIS observations of lunar pickâ€up ions in the terrestrial magnetotail lobes. Geophysical Research Letters, 2012, 39, .	4.0	40
94	Survey of magnetic reconnection signatures in the Martian magnetotail with MAVEN. Journal of Geophysical Research: Space Physics, 2017, 122, 5114-5131.	2.4	40
95	Martian magnetic storms. Journal of Geophysical Research: Space Physics, 2017, 122, 6185-6209.	2.4	40
96	Variations of the Martian plasma environment during the ICME passage on 8 March 2015: A timeâ€dependent MHD study. Journal of Geophysical Research: Space Physics, 2017, 122, 1714-1730.	2.4	40
97	The Threeâ€Dimensional Bow Shock of Mars as Observed by MAVEN. Journal of Geophysical Research: Space Physics, 2018, 123, 4542-4555.	2.4	40
98	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
99	Mars heavy ion precipitating flux as measured by Mars Atmosphere and Volatile EvolutioN. Geophysical Research Letters, 2015, 42, 9135-9141.	4.0	39
100	MAVEN and MEX Multiâ€instrument Study of the Dayside of the Martian Induced Magnetospheric Structure Revealed by Pressure Analyses. Journal of Geophysical Research: Space Physics, 2019, 124, 8564-8589.	2.4	39
101	The Heliospheric Current Sheet and Plasma Sheet during Parker Solar Probeâ€™s First Orbit. Astrophysical Journal Letters, 2020, 894, L19.	8.3	39
102	Solar wind interaction with lunar crustal magnetic anomalies. Advances in Space Research, 2008, 41, 1319-1324.	2.6	38
103	MAVEN observations of partially developed Kelvinâ€Helmholtz vortices at Mars. Geophysical Research Letters, 2016, 43, 4763-4773.	4.0	38
104	Seasonal Variability of Neutral Escape from Mars as Derived From MAVEN Pickup Ion Observations. Journal of Geophysical Research E: Planets, 2018, 123, 1192-1202.	3.6	38
105	MAVEN observations of tail current sheet flapping at Mars. Journal of Geophysical Research: Space Physics, 2017, 122, 4308-4324.	2.4	37
106	Demagnetization signatures of lunar impact craters. Geophysical Research Letters, 2002, 29, 23-1.	4.0	36
107	Plasma clouds and snowplows: Bulk plasma escape from Mars observed by MAVEN. Geophysical Research Letters, 2016, 43, 1426-1434.	4.0	36
108	Implications of MAVEN Mars nearâ€wake measurements and models. Geophysical Research Letters, 2015, 42, 9087-9094.	4.0	35

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109	Ionizing Electrons on the Martian Nightside: Structure and Variability. Journal of Geophysical Research: Space Physics, 2018, 123, 4349-4363.	2.4	35
110	The Influence of Solar Wind Pressure on Martian Crustal Magnetic Field Topology. Geophysical Research Letters, 2019, 46, 2347-2354.	4.0	35
111	Mars' Ionopause: A Matter of Pressures. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028145.	2.4	35
112	Concerning the dissipation of electrically charged objects in the shadowed lunar polar regions. Geophysical Research Letters, 2008, 35, .	4.0	34
113	Particleâ€inâ€cell simulations of the solar wind interaction with lunar crustal magnetic anomalies: Magnetic cusp regions. Journal of Geophysical Research, 2012, 117, .	3.3	34
114	ARTEMIS observations of extreme diamagnetic fields in the lunar wake. Geophysical Research Letters, 2014, 41, 3766-3773.	4.0	34
115	Marsward and tailward ions in the nearâ€Mars magnetotail: MAVEN observations. Geophysical Research Letters, 2015, 42, 8925-8932.	4.0	34
116	Formation Timescales of Amorphous Rims on Lunar Grains Derived From ARTEMIS Observations. Journal of Geophysical Research E: Planets, 2018, 123, 37-46.	3.6	34
117	Solar wind electron interaction with the dayside lunar surface and crustal magnetic fields: Evidence for precursor effects. Earth, Planets and Space, 2012, 64, 73-82.	2.5	33
118	Evidence for smallâ€scale collisionless shocks at the Moon from ARTEMIS. Geophysical Research Letters, 2014, 41, 7436-7443.	4.0	33
119	Solar wind interaction with comet 67P: Impacts of corotating interaction regions. Journal of Geophysical Research: Space Physics, 2016, 121, 949-965.	2.4	33
120	Using ARTEMIS pickup ion observations to place constraints on the lunar atmosphere. Journal of Geophysical Research E: Planets, 2013, 118, 81-88.	3.6	32
121	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
122	Electron heat flux in the near-Sun environment. Astronomy and Astrophysics, 2021, 650, A15.	5.1	32
123	Lunar precursor effects in the solar wind and terrestrial magnetosphere. Journal of Geophysical Research, 2012, 117, .	3.3	31
124	Distribution and variability of accelerated electrons at Mars. Advances in Space Research, 2008, 41, 1347-1352.	2.6	30
125	Impact demagnetization of the Martian crust: Current knowledge and future directions. Earth and Planetary Science Letters, 2011, 305, 257-269.	4.4	30
126	Characterization of turbulence in the Mars plasma environment with MAVEN observations. Journal of Geophysical Research: Space Physics, 2017, 122, 656-674.	2.4	30

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127	Effects of solar irradiance on the upper ionosphere and oxygen ion escape at Mars: MAVEN observations. Journal of Geophysical Research: Space Physics, 2017, 122, 7142-7152.	2.4	30
128	Electric and magnetic variations in the nearâ€Mars environment. Journal of Geophysical Research: Space Physics, 2017, 122, 8536-8559.	2.4	30
129	Plasma Waves near the Electron Cyclotron Frequency in the Near-Sun Solar Wind. Astrophysical Journal, Supplement Series, 2020, 246, 21.	7.7	30
130	The effects of reflected protons on the plasma environment of the moon for parallel interplanetary magnetic fields. Geophysical Research Letters, 2013, 40, 4544-4548.	4.0	29
131	Statistical characterization of the foremoon particle and wave morphology: ARTEMIS observations. Journal of Geophysical Research: Space Physics, 2015, 120, 4907-4921.	2.4	29
132	Measurements of Forbush decreases at Mars: both by MSL on ground and by MAVEN in orbit. Astronomy and Astrophysics, 2018, 611, A79.	5.1	29
133	The Impact and Solar Wind Proxy of the 2017 September ICME Event at Mars. Geophysical Research Letters, 2018, 45, 7248-7256.	4.0	29
134	Statistical Study of Heavy Ion Outflows From Mars Observed in the Martianâ€Induced Magnetotail by MAVEN. Journal of Geophysical Research: Space Physics, 2019, 124, 5482-5497.	2.4	29
135	Constraining Ion-Scale Heating and Spectral Energy Transfer in Observations of Plasma Turbulence. Physical Review Letters, 2020, 125, 025102.	7.8	29
136	The Martian Photoelectron Boundary as Seen by MAVEN. Journal of Geophysical Research: Space Physics, 2017, 122, 10,472.	2.4	28
137	Comparative study of the Martian suprathermal electron depletions based on Mars Global Surveyor, Mars Express, and Mars Atmosphere and Volatile EvolutioN mission observations. Journal of Geophysical Research: Space Physics, 2017, 122, 857-873.	2.4	28
138	On the origins of magnetic flux ropes in nearâ€Mars magnetotail current sheets. Geophysical Research Letters, 2017, 44, 7653-7662.	4.0	28
139	Kinetic instabilities in the lunar wake: ARTEMIS observations. Journal of Geophysical Research, 2012, 117, .	3.3	27
140	The effects of solar wind velocity distributions on the refilling of the lunar wake: ARTEMIS observations and comparisons to oneâ€dimensional theory. Journal of Geophysical Research: Space Physics, 2014, 119, 5133-5149.	2.4	27
141	MAVEN observations of electronâ€induced whistler mode waves in the Martian magnetosphere. Journal of Geophysical Research: Space Physics, 2016, 121, 9717-9731.	2.4	27
142	On the Origins of Mars' Exospheric Nonthermal Oxygen Component as Observed by MAVEN and Modeled by HELIOSARES. Journal of Geophysical Research E: Planets, 2017, 122, 2401-2428.	3.6	27
143	Importance of Ambipolar Electric Field in Driving Ion Loss From Mars: Results From a Multifluid MHD Model With the Electron Pressure Equation Included. Journal of Geophysical Research: Space Physics, 2019, 124, 9040-9057.	2.4	27
144	First remote measurements of lunar surface charging from ARTEMIS: Evidence for nonmonotonic sheath potentials above the dayside surface. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	26

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145	A chain of magnetic flux ropes in the magnetotail of Mars. Geophysical Research Letters, 2012, 39, .	4.0	26
146	ARTEMIS observations of terrestrial ionospheric molecular ion outflow at the Moon. Geophysical Research Letters, 2016, 43, 6749-6758.	4.0	26
147	Autocorrelation Study of Solar Wind Plasma and IMF Properties as Measured by the MAVEN Spacecraft. Journal of Geophysical Research: Space Physics, 2018, 123, 2493-2512.	2.4	26
148	How strong are lunar crustal magnetic fields at the surface?: Considerations from a reexamination of the electron reflectometry technique. Journal of Geophysical Research, 2010, 115, .	3.3	25
149	Discharging of Roving Objects in the Lunar Polar Regions. Journal of Spacecraft and Rockets, 2011, 48, 700-704.	1.9	25
150	Timeâ€dispersed ion signatures observed in the Martian magnetosphere by MAVEN. Geophysical Research Letters, 2015, 42, 8910-8916.	4.0	25
151	Understanding temporal and spatial variability of the lunar helium atmosphere using simultaneous observations from LRO, LADEE, and ARTEMIS. Icarus, 2016, 273, 45-52.	2.5	25
152	On Mars's Atmospheric Sputtering After MAVEN's First Martian Year of Measurements. Geophysical Research Letters, 2018, 45, 4685-4691.	4.0	25
153	The Influence of Interplanetary Magnetic Field Direction on Martian Crustal Magnetic Field Topology. Geophysical Research Letters, 2020, 47, e2020GL087757.	4.0	25
154	Daedalus: a low-flying spacecraft for in situ exploration of the lower thermosphereâ€“ionosphere. Geoscientific Instrumentation, Methods and Data Systems, 2020, 9, 153-191.	1.6	25
155	Solarâ€Storm/Lunar Atmosphere Model (SSLAM): An overview of the effort and description of the driving storm environment. Journal of Geophysical Research, 2012, 117, .	3.3	24
156	A comparison of ARTEMIS observations and particleâ€inâ€cell modeling of the lunar photoelectron sheath in the terrestrial magnetotail. Geophysical Research Letters, 2012, 39, .	4.0	24
157	Modelâ€based constraints on the lunar exosphere derived from ARTEMIS pickup ion observations in the terrestrial magnetotail. Journal of Geophysical Research E: Planets, 2013, 118, 1135-1147.	3.6	24
158	Surface charging and electrostatic dust acceleration at the nucleus of comet 67P during periods of low activity. Planetary and Space Science, 2015, 119, 24-35.	1.7	24
159	Structure and Variability of the Martian Ion Composition Boundary Layer. Journal of Geophysical Research: Space Physics, 2018, 123, 8439-8458.	2.4	24
160	Parker Solar Probe Evidence for Scattering of Electrons in the Young Solar Wind by Narrowband Whistler-mode Waves. Astrophysical Journal Letters, 2021, 911, L29.	8.3	24
161	On wind-driven electrojets at magnetic cusps in the nightside ionosphere of Mars. Earth, Planets and Space, 2012, 64, 93-103.	2.5	23
162	ARTEMIS observations of lunar dayside plasma in the terrestrial magnetotail lobe. Journal of Geophysical Research: Space Physics, 2013, 118, 3042-3054.	2.4	23

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163	Anisotropic solar wind sputtering of the lunar surface induced by crustal magnetic anomalies. Geophysical Research Letters, 2014, 41, 4865-4872.	4.0	23
164	3D PIC SIMULATIONS OF COLLISIONLESS SHOCKS AT LUNAR MAGNETIC ANOMALIES AND THEIR ROLE IN FORMING LUNAR SWIRLS. Astrophysical Journal, 2016, 830, 146.	4.5	23
165	MARSIS Observations of the Martian Nightside Ionosphere During the September 2017 Solar Event. Geophysical Research Letters, 2018, 45, 7960-7967.	4.0	23
166	Prevalence of magnetic reconnection in the near-Sun heliospheric current sheet. Astronomy and Astrophysics, 2021, 650, A13.	5.1	23
167	Mars's magnetotail: Nature's current sheet laboratory. Journal of Geophysical Research: Space Physics, 2017, 122, 5404-5417.	2.4	22
168	Cold Dense Ion Outflow Observed in the Martianâ€Induced Magnetotail by MAVEN. Geophysical Research Letters, 2018, 45, 5283-5289.	4.0	22
169	The Effects of Solar Wind Dynamic Pressure on the Structure of the Topside Ionosphere of Mars. Geophysical Research Letters, 2019, 46, 8652-8662.	4.0	22
170	Unusual Plasma and Particle Signatures at Mars and STEREO-A Related to CMEâ€"CME Interaction. Astrophysical Journal, 2019, 880, 18.	4.5	22
171	Whistler wave occurrence and the interaction with strahl electrons during the first encounter of Parker Solar Probe. Astronomy and Astrophysics, 2021, 650, A9.	5.1	22
172	Large-amplitude compressive â€œsawtoothâ€• magnetic field oscillations in the Martian magnetosphere. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	21
173	ARTEMIS observations of the solar wind proton scattering function from lunar crustal magnetic anomalies. Journal of Geophysical Research E: Planets, 2017, 122, 771-783.	3.6	21
174	MAVEN observations of a giant ionospheric flux rope near Mars resulting from interaction between the crustal and interplanetary draped magnetic fields. Journal of Geophysical Research: Space Physics, 2017, 122, 828-842.	2.4	21
175	Solar Wind Deflection by Mass Loading in the Martian Magnetosheath Based on MAVEN Observations. Geophysical Research Letters, 2018, 45, 2574-2579.	4.0	21
176	Effects of the Crustal Magnetic Fields and Changes in the IMF Orientation on the Magnetosphere of Mars: MAVEN Observations and LatHyS Results. Journal of Geophysical Research: Space Physics, 2018, 123, 5315-5333.	2.4	21
177	An Artificial Neural Network for Inferring Solar Wind Proxies at Mars. Geophysical Research Letters, 2018, 45, 10,855.	4.0	21
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