David L Mitchell

List of Publications by Year
in descending order

200 papers	13,053 citations	26630 56 h-index	26613 107 g-index
211 all docs	211 docs citations	211 times ranked	3970 citing authors

#	Article	IF	Citations
1	Global Distribution of Crustal Magnetization Discovered by the Mars Global Surveyor MAG/ER Experiment. Science, 1999, 284, 790-793.	12.6	914
2	Magnetic Field and Plasma Observations at Mars: Initial Results of the Mars Global Surveyor Mission. Science, 1998, 279, 1676-1680.	12.6	670
3	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. Space Science Reviews, 2015, 195, 3-48.	8.1	563
4	Magnetic Lineations in the Ancient Crust of Mars. Science, 1999, 284, 794-798.	12.6	462
5	The Space Physics Environment Data Analysis System (SPEDAS). Space Science Reviews, 2019, 215, 9.	8.1	332
6	Probing Mars' crustal magnetic field and ionosphere with the MGS Electron Reflectometer. Journal of Geophysical Research, 2001, 106, 23419-23427.	3.3	305
7	IBEXâ€”Interstellar Boundary Explorer. Space Science Reviews, 2009, 146, 11-33.	8.1	305
8	Magnetic field of Mars: Summary of results from the aerobraking and mapping orbits. Journal of Geophysical Research, 2001, 106, 23403-23417.	3.3	301
9	The solar wind interaction with Mars: Locations and shapes of the bow shock and the magnetic pile-up boundary from the observations of the MAG/ER Experiment onboard Mars Global Surveyor. Geophysical Research Letters, 2000, 27, 49-52.	4.0	300
10	The Solar Wind Ion Analyzer for MAVEN. Space Science Reviews, 2015, 195, 125-151.	8.1	300
11	Tectonic implications of Mars crustal magnetism. Proceedings of the National Academy of Sciences of the United States of America, 2005, 102, 14970-14975.	7.1	254
12	The global magnetic field of Mars and implications for crustal evolution. Geophysical Research Letters, 2001, 28, 4015-4018.	4.0	248
13	The MAVEN Solar Wind Electron Analyzer. Space Science Reviews, 2016, 200, 495-528.	8.1	217
14	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
15	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
16	The Two Wide-angle Imaging Neutral-atom Spectrometers (TWINS) NASA Mission-of-Opportunity. Space Science Reviews, 2009, 142, 157-231.	8.1	170
17	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. Science, 2015, 350, aad0210.	12.6	166
18	Response of Jupiter's and Saturn's auroral activity to the solar wind. Journal of Geophysical Research, 2009, 114, .	3.3	161

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19	Electron pitch angle distributions as indicators of magnetic field topology near Mars. Journal of Geophysical Research, 2007, 112, .	3.3	153
20	Initial measurements of the lunar induced magnetic dipole moment using Lunar Prospector Magnetometer data. Geophysical Research Letters, 1999, 26, 2327-2330.	4.0	144
21	On the origin of aurorae on Mars. Geophysical Research Letters, 2006, 33, n/a-n/a.	4.0	139
22	Electrons and magnetic fields in the lunar plasma wake. Journal of Geophysical Research, 2005, 110, .	3.3	133
23	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. Space Science Reviews, 2018, 214, 1.	8.1	129
24	Energetic ion precipitation at Titan. Geophysical Research Letters, 2008, 35, .	4.0	128
25	Variability of the altitude of the Martian sheath. Geophysical Research Letters, 2005, 32, n/a-n/a.	4.0	121
26	Venus-like interaction of the solar wind with Mars. Geophysical Research Letters, 1999, 26, 2685-2688.	4.0	114
27	Observations of low-frequency electromagnetic plasma waves upstream from the Martian shock. Journal of Geophysical Research, 2002, 107, SMP 9-1.	3.3	107
28	Martian lowâ€altitude magnetic topology deduced from MAVEN/SWEA observations. Journal of Geophysical Research: Space Physics, 2017, 122, 1831-1852.	2.4	107
29	An improved crustal magnetic field map of Mars from electron reflectometry: Highland volcano magmatic history and the end of the martian dynamo. Icarus, 2008, 194, 575-596.	2.5	106
30	First results of the <scp>MAVEN</scp> magnetic field investigation. Geophysical Research Letters, 2015, 42, 8819-8827.	4.0	102
31	Observations of the latitude dependence of the location of the martian magnetic pileup boundary. Geophysical Research Letters, 2002, 29, 11-1-11-4.	4.0	100
32	Characterizing Atmospheric Escape from Mars Today and Through Time, with MAVEN. Space Science Reviews, 2015, 195, 357-422.	8.1	99
33	Discovery of diffuse aurora on Mars. Science, 2015, 350, aad0313.	12.6	98
34	Evidence for collisionless magnetic reconnection at Mars. Geophysical Research Letters, 2008, 35, .	4.0	94
35	A proxy for determining solar wind dynamic pressure at Mars using Mars Global Surveyor data. Journal of Geophysical Research, 2003, 108, .	3.3	92
36	Evidence for negative charging of the lunar surface in shadow. Geophysical Research Letters, 2002, 29, 77-1-77-4.	4.0	90

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37	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. Science, 2015, 350, aad0459.	12.6	90
38	Magnetic field draping enhancement at the Martian magnetic pileup boundary from Mars global surveyor observations. Geophysical Research Letters, 2003, 30, .	4.0	89
39	Oxygen auger electrons observed in Mars' ionosphere. Geophysical Research Letters, 2000, 27, 1871-1874.	4.0	88
40	A CMOS time-of-flight system-on-a-chip for spacecraft instruments. IEEE Transactions on Nuclear Science, 2002, 49, 1156-1163.	2.0	87
41	The magnetic field draping direction at Mars from April 1999 through August 2004. Icarus, 2006, 182, 464-473.	2.5	82
42	MAVEN observations of solar wind hydrogen deposition in the atmosphere of Mars. Geophysical Research Letters, 2015, 42, 8901-8909.	4.0	78
43	Structure of the magnetic field fluxes connected with crustal magnetization and topside ionosphere at Mars. Journal of Geophysical Research, 2002, 107, SIA 2-1.	3.3	77
44	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
45	Role of plasma waves in Mars' atmospheric loss. Geophysical Research Letters, 2006, 33, .	4.0	71
46	Evidence of electron impact ionization in the magnetic pileup boundary of Mars. Geophysical Research Letters, 2000, 27, 45-48.	4.0	67
47	Large negative lunar surface potentials in sunlight and shadow. Geophysical Research Letters, 2005, 32, .	4.0	67
48	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
49	The Twisted Configuration of the Martian Magnetotail: MAVEN Observations. Geophysical Research Letters, 2018, 45, 4559-4568.	4.0	66
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	Ion Densities in the Nightside Ionosphere of Mars: Effects of Electron Impact Ionization. Geophysical Research Letters, 2017, 44, 11248-11256.	4.0	64
52	The first in situ electron temperature and density measurements of the Martian nightside ionosphere. Geophysical Research Letters, 2015, 42, 8854-8861.	4.0	62
53	A global map of Mars' crustal magnetic field based on electron reflectometry. Journal of Geophysical Research, 2007, 112, .	3.3	61
54	Mars Global Surveyor observations of the Halloween 2003 solar superstorm's encounter with Mars. Journal of Geophysical Research, 2005, 110, .	3.3	60

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55	Magnetic reconnection in the nearâ€Mars magnetotail: MAVEN observations. Geophysical Research Letters, 2015, 42, 8838-8845.	4.0	59
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	A Technique to Infer Magnetic Topology at Mars and Its Application to the Terminator Region. Journal of Geophysical Research: Space Physics, 2019, 124, 1823-1842.	2.4	58
58	Current sheets at low altitudes in the Martian magnetotail. Geophysical Research Letters, 2006, 33, .	4.0	56
59	Numerical interpretation of high-altitude photoelectron observations. Icarus, 2006, 182, 383-395.	2.5	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	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
62	Deep nightside photoelectron observations by MAVEN SWEA: Implications for Martian northern hemispheric magnetic topology and nightside ionosphere source. Geophysical Research Letters, 2016, 43, 8876-8884.	4.0	54
63	Magnetotail dynamics at Mars: Initial MAVEN observations. Geophysical Research Letters, 2015, 42, 8828-8837.	4.0	52
64	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
65	Whistler waves observed near lunar crustal magnetic sources. Geophysical Research Letters, 2006, 33, .	4.0	51
66	Modeling Martian Atmospheric Losses over Time: Implications for Exoplanetary Climate Evolution and Habitability. Astrophysical Journal Letters, 2018, 859, L14.	8.3	51
67	Hot diamagnetic cavities upstream of the Martian bow shock. Geophysical Research Letters, 2001, 28, 887-890.	4.0	50
68	MGS MAG/ER observations at the magnetic pileup boundary of Mars: draping enhancement and low frequency waves. Advances in Space Research, 2004, 33, 1938-1944.	2.6	50
69	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
70	Magnetospheric and Plasma Science with Cassini-Huygens. Space Science Reviews, 2002, 104, 253-346.	8.1	47
71	Correlations between magnetic anomalies and surface geology antipodal to lunar impact basins. Journal of Geophysical Research, 2005, 110, .	3.3	47
72	Model calculations of electron precipitation induced ionization patches on the nightside of Mars. Geophysical Research Letters, 2007, 34, .	4.0	47

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73	Mapping crustal magnetic fields at Mars using electron reflectometry. Geophysical Research Letters, 2004, 31, .	4.0	46
74	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
75	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
76	Magnetic Reconnection on Dayside Crustal Magnetic Fields at Mars: MAVEN Observations. Geophysical Research Letters, 2018, 45, 4550-4558.	4.0	44
77	The Morphology of the Topside Martian Ionosphere: Implications on Bulk Ion Flow. Journal of Geophysical Research E: Planets, 2019, 124, 734-751.	3.6	43
78	Ionopauseâ€like density gradients in the Martian ionosphere: A first look with MAVEN. Geophysical Research Letters, 2015, 42, 8885-8893.	4.0	42
79	Altitude dependence of nightside Martian suprathermal electron depletions as revealed by MAVEN observations. Geophysical Research Letters, 2015, 42, 8877-8884.	4.0	41
80	Titan's interaction with the supersonic solar wind. Geophysical Research Letters, 2015, 42, 193-200.	4.0	40
81	Survey of magnetic reconnection signatures in the Martian magnetotail with MAVEN. Journal of Geophysical Research: Space Physics, 2017, 122, 5114-5131.	2.4	40
82	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
83	The Threeâ€Dimensional Bow Shock of Mars as Observed by MAVEN. Journal of Geophysical Research: Space Physics, 2018, 123, 4542-4555.	2.4	40
84	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
85	Investigation of Martian Magnetic Topology Response to 2017 September ICME. Geophysical Research Letters, 2018, 45, 7337-7346.	4.0	39
86	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
87	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
88	Electron energetics in the Martian dayside ionosphere: Model comparisons with MAVEN data. Journal of Geophysical Research: Space Physics, 2016, 121, 7049-7066.	2.4	38
89	MAVEN observations of partially developed Kelvinâ€Helmholtz vortices at Mars. Geophysical Research Letters, 2016, 43, 4763-4773.	4.0	38
90	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

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91	Plasma clouds and snowplows: Bulk plasma escape from Mars observed by MAVEN. Geophysical Research Letters, 2016, 43, 1426-1434.	4.0	36
92	Using Magnetic Topology to Probe the Sources of Mars' Nightside Ionosphere. Geophysical Research Letters, 2018, 45, 12,190.	4.0	36
93	Comparisons of electron fluxes measured in the crustal fields at Mars by the MGS magnetometer/electron reflectometer instrument with aBfield-dependent transport code. Journal of Geophysical Research, 2003, 108, .	3.3	35
94	Electron reflectometry in the martian atmosphere. Icarus, 2008, 194, 544-561.	2.5	35
95	Implications of MAVEN Mars nearâ€wake measurements and models. Geophysical Research Letters, 2015, 42, 9087-9094.	4.0	35
96	Ionizing Electrons on the Martian Nightside: Structure and Variability. Journal of Geophysical Research: Space Physics, 2018, 123, 4349-4363.	2.4	35
97	The Influence of Solar Wind Pressure on Martian Crustal Magnetic Field Topology. Geophysical Research Letters, 2019, 46, 2347-2354.	4.0	35
98	Marsward and tailward ions in the nearâ€Mars magnetotail: MAVEN observations. Geophysical Research Letters, 2015, 42, 8925-8932.	4.0	34
99	Pressure and ion composition boundaries at Mars. Journal of Geophysical Research: Space Physics, 2016, 121, 6417-6429.	2.4	34
100	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
101	Solar wind electron precipitation into the dayside Martian upper atmosphere through the cusps of strong crustal fields. Journal of Geophysical Research: Space Physics, 2014, 119, 10,100.	2.4	31
102	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
103	Fieldâ€Aligned Potentials at Mars From MAVEN Observations. Geophysical Research Letters, 2018, 45, 10,119.	4.0	31
104	Distribution and variability of accelerated electrons at Mars. Advances in Space Research, 2008, 41, 1347-1352.	2.6	30
105	Characterization of turbulence in the Mars plasma environment with MAVEN observations. Journal of Geophysical Research: Space Physics, 2017, 122, 656-674.	2.4	30
106	Observations and Modeling of the Mars Lowâ€Altitude Ionospheric Response to the 10 September 2017 Xâ€Class Solar Flare. Geophysical Research Letters, 2018, 45, 7382-7390.	4.0	30
107	The Impact and Solar Wind Proxy of the 2017 September ICME Event at Mars. Geophysical Research Letters, 2018, 45, 7248-7256.	4.0	29
108	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

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109	Mars nightside electrons over strong crustal fields. Journal of Geophysical Research: Space Physics, 2016, 121, 3808-3823.	2.4	29
110	Model insights into energetic photoelectrons measured at Mars by MAVEN. Geophysical Research Letters, 2015, 42, 8894-8900.	4.0	28
111	Martian highâ€altitude photoelectrons independent of solar zenith angle. Journal of Geophysical Research: Space Physics, 2016, 121, 3767-3780.	2.4	28
112	The Martian Photoelectron Boundary as Seen by MAVEN. Journal of Geophysical Research: Space Physics, 2017, 122, 10,472.	2.4	28
113	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
114	On the origins of magnetic flux ropes in nearâ€Mars magnetotail current sheets. Geophysical Research Letters, 2017, 44, 7653-7662.	4.0	28
115	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
116	Investigation of Mars' ionospheric response to solar energetic particle events. Journal of Geophysical Research, 2012, 117, .	3.3	26
117	Highâ€Altitude Closed Magnetic Loops at Mars Observed by MAVEN. Geophysical Research Letters, 2017, 44, 11,229.	4.0	26
118	Models of Saturn's Equatorial Ionosphere Based on In Situ Data From Cassini's Grand Finale. Geophysical Research Letters, 2018, 45, 9398-9407.	4.0	26
119	Invertedâ€V Electron Acceleration Events Concurring With Localized Auroral Observations at Mars by MAVEN. Geophysical Research Letters, 2020, 47, e2020GL087414.	4.0	26
120	Timeâ€dispersed ion signatures observed in the Martian magnetosphere by MAVEN. Geophysical Research Letters, 2015, 42, 8910-8916.	4.0	25
121	Enhanced carbon dioxide causing the dust stormâ€related increase in highâ€altitude photoelectron fluxes at Mars. Geophysical Research Letters, 2015, 42, 9702-9710.	4.0	25
122	The Influence of Interplanetary Magnetic Field Direction on Martian Crustal Magnetic Field Topology. Geophysical Research Letters, 2020, 47, e2020GL087757.	4.0	25
123	Structure and Variability of the Martian Ion Composition Boundary Layer. Journal of Geophysical Research: Space Physics, 2018, 123, 8439-8458.	2.4	24
124	Close Cassini flybys of Saturnâ€™s ring moons Pan, Daphnis, Atlas, Pandora, and Epimetheus. Science, 2019, 364, .	12.6	24
125	Energetic particles detected by the Electron Reflectometer instrument on the Mars Global Surveyor, 1999â€“2006. Space Weather, 2012, 10, .	3.7	23
126	Cold Dense Ion Outflow Observed in the Martianâ€Induced Magnetotail by MAVEN. Geophysical Research Letters, 2018, 45, 5283-5289.	4.0	22

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127	On the formation and origin of substorm growth phase/onset auroral arcs inferred from conjugate spaceâ€ground observations. Journal of Geophysical Research: Space Physics, 2015, 120, 8707-8722.	2.4	21
128	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
129	An Artificial Neural Network for Inferring Solar Wind Proxies at Mars. Geophysical Research Letters, 2018, 45, 10,855.	4.0	21
130	Thin Current Sheets of Subâ€ion Scales observed by MAVEN in the Martian Magnetotail. Geophysical Research Letters, 2019, 46, 6214-6222.	4.0	21
131	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
132	Characterizing Mars's Magnetotail Topology With Respect to the Upstream Interplanetary Magnetic Fields. Journal of Geophysical Research: Space Physics, 2020, 125, no.	2.4	21
133	Evaluating predictions of ICME arrival at Earth and Mars. Space Weather, 2011, 9, .	3.7	20
134	A hot flow anomaly at Mars. Geophysical Research Letters, 2015, 42, 9121-9127.	4.0	20
135	Ion Jets Within Current Sheets in the Martian Magnetosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028576.	2.4	20
136	Probing upper thermospheric neutral densities at Mars using electron reflectometry. Geophysical Research Letters, 2005, 32, .	4.0	19
137	Continuous monitoring of nightside upper thermospheric mass densities in the martian southern hemisphere over 4 martian years using electron reflectometry. Icarus, 2008, 194, 562-574.	2.5	19
138	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
139	Magnetic Holes Upstream of the Martian Bow Shock: MAVEN Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027198.	2.4	19
140	MAVEN observations of energyâ€time dispersed electron signatures in Martian crustal magnetic fields. Geophysical Research Letters, 2016, 43, 939-944.	4.0	18
141	Magnetic Topology Response to the 2003 Halloween ICME Event at Mars. Journal of Geophysical Research: Space Physics, 2019, 124, 151-165.	2.4	18
142	Estimation of the spatial structure of a detached magnetic flux rope at Mars based on simultaneous MAVEN plasma and magnetic field observations. Geophysical Research Letters, 2015, 42, 8933-8941.	4.0	17
143	Properties of Plasma Waves Observed Upstream From Mars. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028221.	2.4	17
144	Localized Heating of the Martian Topside Ionosphere Through the Combined Effects of Magnetic Pumping by Largeâ€Scale Magnetosonic Waves and Pitch Angle Diffusion by Whistler Waves. Geophysical Research Letters, 2020, 47, e2019GL086408.	4.0	17

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145	In Situ Measurements of Thermal Ion Temperature in the Martian Ionosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029531.	2.4	17
146	MAVEN Observations of Ionospheric Irregularities at Mars. Geophysical Research Letters, 2017, 44, 10,845.	4.0	16
147	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
148	Evidence for Crustal Magnetic Field Control of Ions Precipitating Into the Upper Atmosphere of Mars. Journal of Geophysical Research: Space Physics, 2018, 123, 8572-8586.	2.4	16
149	Observation of conical electron distributions over Martian crustal magnetic fields. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	15
150	Spontaneous hot flow anomalies at Mars and Venus. Journal of Geophysical Research: Space Physics, 2017, 122, 9910-9923.	2.4	15
151	Comparison of Global Martian Plasma Models in the Context of MAVEN Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 3714-3726.	2.4	15
152	Mapping the Lunar Wake Potential Structure With ARTEMIS Data. Journal of Geophysical Research: Space Physics, 2019, 124, 3360-3377.	2.4	15
153	Variations in Nightside Magnetic Field Topology at Mars. Geophysical Research Letters, 2020, 47, e2020GL088921.	4.0	15
154	MAVEN observations of magnetic flux ropes with a strong field amplitude in the Martian magnetosheath during the ICME passage on 8 March 2015. Geophysical Research Letters, 2016, 43, 4816-4824.	4.0	14
155	Dynamic response of the Martian ionosphere to an interplanetary shock: Mars Express and MAVEN observations. Geophysical Research Letters, 2017, 44, 9116-9123.	4.0	14
156	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
157	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
158	Martian Crustal Field Influence on O⁺ and O₂⁺ Escape as Measured by MAVEN. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029234.	2.4	14
159	Mars photoelectron energy and pitch angle dependence on intense lower atmospheric dust storms. Journal of Geophysical Research E: Planets, 2014, 119, 1689-1706.	3.6	13
160	Traveling Ionospheric Disturbances at Mars. Geophysical Research Letters, 2019, 46, 4554-4563.	4.0	13
161	Martian electron foreshock from MAVEN observations. Journal of Geophysical Research: Space Physics, 2017, 122, 1531-1541.	2.4	12
162	Evidence for Neutralsâ€Foreshock Electrons Impact at Mars. Geophysical Research Letters, 2018, 45, 3768-3774.	4.0	12

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163	Betatron Cooling of Electrons in Martian Magnetotail. Geophysical Research Letters, 2021, 48, e2021GL093826.	4.0	12
164	Photoelectrons on closed crustal field lines at Mars. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	11
165	Statistical analysis of the reflection of incident O⁺ pickup ions at Mars: MAVEN observations. Journal of Geophysical Research: Space Physics, 2017, 122, 4089-4101.	2.4	11
166	Oneâ€Hertz Waves at Mars: MAVEN Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 3460-3476.	2.4	10
167	The Relationship Between Photoelectron Boundary and Steep Electron Density Gradient on Mars: MAVEN Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 8015-8022.	2.4	10
168	Collisionless Electron Dynamics in the Magnetosheath of Mars. Geophysical Research Letters, 2019, 46, 11679-11688.	4.0	10
169	Auroral spirals at Saturn. Journal of Geophysical Research: Space Physics, 2015, 120, 8633-8643.	2.4	9
170	Correlations between enhanced electron temperatures and electric field wave power in the Martian ionosphere. Geophysical Research Letters, 2018, 45, 493-501.	4.0	9
171	A Fast Fermi Acceleration at Mars Bow Shock. Journal of Geophysical Research: Space Physics, 2019, 124, 5528-5538.	2.4	9
172	Spectral Analysis of Accelerated Electron Populations at Mars. Journal of Geophysical Research: Space Physics, 2019, 124, 8056-8065.	2.4	9
173	Global Ambipolar Potentials and Electric Fields at Mars Inferred From MAVEN Observations. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	9
174	Ion Heating in the Martian Ionosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 10,612.	2.4	8
175	Low Electron Temperatures Observed at Mars by MAVEN on Dayside Crustal Magnetic Field Lines. Journal of Geophysical Research: Space Physics, 2019, 124, 7629-7637.	2.4	8
176	The Penetration of Draped Magnetic Field Into the Martian Upper Ionosphere and Correlations With Upstream Solar Wind Dynamic Pressure. Journal of Geophysical Research: Space Physics, 2019, 124, 3021-3035.	2.4	8
177	Locally Generated ULF Waves in the Martian Magnetosphere: MAVEN Observations. Journal of Geophysical Research: Space Physics, 2019, 124, 8707-8726.	2.4	8
178	MAVEN Observations of Low Frequency Steepened Magnetosonic Waves and Associated Heating of the Martian Nightside Ionosphere. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029615.	2.4	8
179	Empirically Determined Auroral Electron Events at Marsâ€"MAVEN Observations. Geophysical Research Letters, 2022, 49, .	4.0	8
180	Properties of a large-scale flux rope and current sheet region on the dayside of Mars: MGS MAG/ER and MEX ASPERA-3 ELS observations. Icarus, 2014, 242, 297-315.	2.5	7

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