David A Brain

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209 6,820 46 69 g-index

227 7,852 4.3 5.49 ext. papers ext. citations avg, IF L-index

#	Paper	IF	Citations
209	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. <i>Space Science Reviews</i> , 2015 , 195, 3-48	7.5	405
208	Martian magnetic morphology: Contributions from the solar wind and crust. <i>Journal of Geophysical Research</i> , 2003 , 108,		144
207	Loss of the Martian atmosphere to space: Present-day loss rates determined from MAVEN observations and integrated loss through time. <i>Icarus</i> , 2018 , 315, 146-157	3.8	136
206	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015 , 350, aad0210	33.3	131
205	Electron pitch angle distributions as indicators of magnetic field topology near Mars. <i>Journal of Geophysical Research</i> , 2007 , 112, n/a-n/a		129
204	On the origin of aurorae on Mars. <i>Geophysical Research Letters</i> , 2006 , 33, n/a-n/a	4.9	118
203	Variability of the altitude of the Martian sheath. <i>Geophysical Research Letters</i> , 2005 , 32, n/a-n/a	4.9	103
202	Venus-like interaction of the solar wind with Mars. <i>Geophysical Research Letters</i> , 1999 , 26, 2685-2688	4.9	102
201	Bow Shock and Upstream Phenomena at Mars. <i>Space Science Reviews</i> , 2004 , 111, 115-181	7.5	101
200	Strong plume fluxes at Mars observed by MAVEN: An important planetary ion escape channel. <i>Geophysical Research Letters</i> , 2015 , 42, 8942-8950	4.9	100
199	Plasma acceleration above martian magnetic anomalies. <i>Science</i> , 2006 , 311, 980-3	33.3	100
198	The spatial distribution of planetary ion fluxes near Mars observed by MAVEN. <i>Geophysical Research Letters</i> , 2015 , 42, 9142-9148	4.9	95
197	A comparison of global models for the solar wind interaction with Mars. <i>Icarus</i> , 2010 , 206, 139-151	3.8	92
196	Observations of low-frequency electromagnetic plasma waves upstream from the Martian shock. Journal of Geophysical Research, 2002 , 107, SMP 9-1		90
195	Characterizing Atmospheric Escape from Mars Today and Through Time, with MAVEN. <i>Space Science Reviews</i> , 2015 , 195, 357-422	7.5	88
194	Mars Express and Venus Express multi-point observations of geoeffective solar flare events in December 2006. <i>Planetary and Space Science</i> , 2008 , 56, 873-880	2	88
193	Atmospheric loss since the onset of the Martian geologic record: Combined role of impact erosion and sputtering. <i>Journal of Geophysical Research</i> , 1998 , 103, 22689-22694		87

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192	Initial results from the MAVEN mission to Mars. <i>Geophysical Research Letters</i> , 2015 , 42, 8791-8802	4.9	82
191	Episodic detachment of Martian crustal magnetic fields leading to bulk atmospheric plasma escape. <i>Geophysical Research Letters</i> , 2010 , 37, n/a-n/a	4.9	80
190	Nightside ionosphere of Mars: Modeling the effects of crustal magnetic fields and electron pitch angle distributions on electron impact ionization. <i>Journal of Geophysical Research</i> , 2009 , 114,		79
189	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015 , 350, aad0459	33.3	77
188	Evidence for collisionless magnetic reconnection at Mars. <i>Geophysical Research Letters</i> , 2008 , 35,	4.9	77
187	First results of the MAVEN magnetic field investigation. <i>Geophysical Research Letters</i> , 2015 , 42, 8819-88	3 2 4 7 9	75
186	Martian low-altitude magnetic topology deduced from MAVEN/SWEA observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1831-1852	2.6	74
185	Discovery of diffuse aurora on Mars. <i>Science</i> , 2015 , 350, aad0313	33.3	71
184	The magnetic field draping direction at Mars from April 1999 through August 2004. <i>Icarus</i> , 2006 , 182, 464-473	3.8	67
183	Role of plasma waves in Mars' atmospheric loss. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	63
183 182	Role of plasma waves in Mars' atmospheric loss. <i>Geophysical Research Letters</i> , 2006 , 33, Observations of low-frequency magnetic oscillations in the Martian magnetosheath, magnetic pileup region, and tail. <i>Journal of Geophysical Research</i> , 2004 , 109,	4.9	6363
	Observations of low-frequency magnetic oscillations in the Martian magnetosheath, magnetic	4.9	
182	Observations of low-frequency magnetic oscillations in the Martian magnetosheath, magnetic pileup region, and tail. <i>Journal of Geophysical Research</i> , 2004 , 109, Evidence of electron impact ionization in the magnetic pileup boundary of Mars. <i>Geophysical</i>		63
182	Observations of low-frequency magnetic oscillations in the Martian magnetosheath, magnetic pileup region, and tail. <i>Journal of Geophysical Research</i> , 2004 , 109, Evidence of electron impact ionization in the magnetic pileup boundary of Mars. <i>Geophysical Research Letters</i> , 2000 , 27, 45-48 Nightside electron precipitation at Mars: Geographic variability and dependence on solar wind	4.9	63
182 181 180	Observations of low-frequency magnetic oscillations in the Martian magnetosheath, magnetic pileup region, and tail. <i>Journal of Geophysical Research</i> , 2004 , 109, Evidence of electron impact ionization in the magnetic pileup boundary of Mars. <i>Geophysical Research Letters</i> , 2000 , 27, 45-48 Nightside electron precipitation at Mars: Geographic variability and dependence on solar wind conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3546-3556 Observations of aurorae by SPICAM ultraviolet spectrograph on board Mars Express: Simultaneous	4.9	636358
182 181 180	Observations of low-frequency magnetic oscillations in the Martian magnetosheath, magnetic pileup region, and tail. <i>Journal of Geophysical Research</i> , 2004 , 109, Evidence of electron impact ionization in the magnetic pileup boundary of Mars. <i>Geophysical Research Letters</i> , 2000 , 27, 45-48 Nightside electron precipitation at Mars: Geographic variability and dependence on solar wind conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3546-3556 Observations of aurorae by SPICAM ultraviolet spectrograph on board Mars Express: Simultaneous ASPERA-3 and MARSIS measurements. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a Extreme lunar surface charging during solar energetic particle events. <i>Geophysical Research Letters</i> ,	4.9	63635858
182 181 180 179	Observations of low-frequency magnetic oscillations in the Martian magnetosheath, magnetic pileup region, and tail. <i>Journal of Geophysical Research</i> , 2004 , 109, Evidence of electron impact ionization in the magnetic pileup boundary of Mars. <i>Geophysical Research Letters</i> , 2000 , 27, 45-48 Nightside electron precipitation at Mars: Geographic variability and dependence on solar wind conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 3546-3556 Observations of aurorae by SPICAM ultraviolet spectrograph on board Mars Express: Simultaneous ASPERA-3 and MARSIS measurements. <i>Journal of Geophysical Research</i> , 2008 , 113, n/a-n/a Extreme lunar surface charging during solar energetic particle events. <i>Geophysical Research Letters</i> , 2007 , 34,	4·9 2.6 4·9	6363585857

174	Plasma boundary variability at Mars as observed by Mars Global Surveyor and Mars Express. <i>Annales Geophysicae</i> , 2009 , 27, 3537-3550	2	55
173	Density cavity observed over a strong lunar crustal magnetic anomaly in the solar wind: A mini-magnetosphere?. <i>Planetary and Space Science</i> , 2008 , 56, 941-946	2	53
172	Mars Global Surveyor observations of the Halloween 2003 solar superstorm's encounter with Mars. Journal of Geophysical Research, 2005 , 110,		53
171	In situ observations of reconnection Hall magnetic fields at Mars: Evidence for ion diffusion region encounters. <i>Journal of Geophysical Research</i> , 2009 , 114, n/a-n/a		52
170	Localized ionization patches in the nighttime ionosphere of Mars and their electrodynamic consequences. <i>Icarus</i> , 2010 , 206, 112-119	3.8	50
169	Mars Global Surveyor Measurements of the Martian Solar Wind Interaction. <i>Space Science Reviews</i> , 2007 , 126, 77-112	7.5	50
168	Numerical interpretation of high-altitude photoelectron observations. <i>Icarus</i> , 2006 , 182, 383-395	3.8	50
167	Observations and Impacts of the 10 September 2017 Solar Events at Mars: An Overview and Synthesis of the Initial Results. <i>Geophysical Research Letters</i> , 2018 , 45, 8871-8885	4.9	49
166	Origins of the Martian aurora observed by Spectroscopy for Investigation of Characteristics of the Atmosphere of Mars (SPICAM) on board Mars Express. <i>Journal of Geophysical Research</i> , 2006 , 111,		49
165	Current sheets at low altitudes in the Martian magnetotail. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	47
164	Solar control of radar wave absorption by the Martian ionosphere. <i>Geophysical Research Letters</i> , 2006 , 33,	4.9	46
163	Multifluid MHD study of the solar wind interaction with Mars' upper atmosphere during the 2015 March 8th ICME event. <i>Geophysical Research Letters</i> , 2015 , 42, 9103-9112	4.9	45
162	Magnetic reconnection in the near-Mars magnetotail: MAVEN observations. <i>Geophysical Research Letters</i> , 2015 , 42, 8838-8845	4.9	45
161	Areas of enhanced ionization in the deep nightside ionosphere of Mars. <i>Journal of Geophysical Research</i> , 2011 , 116,		44
160	Ionospheric photoelectrons at Venus: Initial observations by ASPERA-4 ELS. <i>Planetary and Space Science</i> , 2008 , 56, 802-806	2	44
159	Seasonal variability of Martian ion escape through the plume and tail from MAVEN observations. Journal of Geophysical Research: Space Physics, 2017 , 122, 4009-4022	2.6	43
158	Mars-solar wind interaction: LatHyS, an improved parallel 3-D multispecies hybrid model. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6378-6399	2.6	43
157	Model calculations of electron precipitation induced ionization patches on the nightside of Mars. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	42

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156	Whistler waves observed near lunar crustal magnetic sources. <i>Geophysical Research Letters</i> , 2006 , 33,	.9	42
155	On the relation between plasma escape and the Martian crustal magnetic field. <i>Geophysical Research Letters</i> , 2011 , 38, n/a-n/a	.9	41
154	Dayside induced magnetic field in the ionosphere of Mars. <i>Icarus</i> , 2010 , 206, 104-111	.8	41
153	ARTEMIS Science Objectives. <i>Space Science Reviews</i> , 2011 , 165, 59-91	.5	40
152	Proton cyclotron waves occurrence rate upstream from Mars observed by MAVEN: Associated variability of the Martian upper atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 11,113-11,128	.6	40
151	Modeling Martian Atmospheric Losses over Time: Implications for Exoplanetary Climate Evolution and Habitability. <i>Astrophysical Journal Letters</i> , 2018 , 859, L14	.9	40
150	Flows, Fields, and Forces in the Mars-Solar Wind Interaction. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,320-11,341	.6	39
149	Control of Mars global atmospheric loss by the continuous rotation of the crustal magnetic field: A time-dependent MHD study. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 10,926	.6	39
148	The Twisted Configuration of the Martian Magnetotail: MAVEN Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 4559-4568	.9	38
147	The Mars crustal magnetic field control of plasma boundary locations and atmospheric loss: MHD prediction and comparison with MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4117-24	f ⁶ 37	37
146	Magnetotail dynamics at Mars: Initial MAVEN observations. <i>Geophysical Research Letters</i> , 2015 , 42, 8828-8	8837	37
145	Response of Mars O+ pickup ions to the 8 March 2015 ICME: Inferences from MAVEN data-based models. <i>Geophysical Research Letters</i> , 2015 , 42, 9095-9102	9	37
144	Total electron content in the Mars ionosphere: Temporal studies and dependence on solar EUV flux. <i>Journal of Geophysical Research</i> , 2010 , 115, n/a-n/a		36
143	External fields on the nightside of Mars at Mars Global Surveyor mapping altitudes. <i>Geophysical Research Letters</i> , 2005 , 32,	.9	36
142	A statistical study of flux ropes in the Martian magnetosphere. <i>Planetary and Space Science</i> , 2011 , 59, 1498-1505		35
141	Venus Express observations of atmospheric oxygen escape during the passage of several coronal mass ejections. <i>Journal of Geophysical Research</i> , 2008 , 113,		35
140	On the occurrence of magnetic enhancements caused by solar wind interaction with lunar crustal fields. <i>Geophysical Research Letters</i> , 2006 , 33,	9	35
139	Solar wind interaction with lunar crustal magnetic anomalies. <i>Advances in Space Research</i> , 2008 , 41, 1319 ₂	1 ₁ 324	33

138	Atmospheric escape from unmagnetized bodies. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 2364-2385	4.1	33
137	Characterization of Low-Altitude Nightside Martian Magnetic Topology Using Electron Pitch Angle Distributions. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9777-9789	2.6	32
136	Absorption of MARSIS radar signals: Solar energetic particles and the daytime ionosphere. <i>Geophysical Research Letters</i> , 2007 , 34,	4.9	31
135	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	2.6	30
134	MAVEN observations of partially developed Kelvin-Helmholtz vortices at Mars. <i>Geophysical Research Letters</i> , 2016 , 43, 4763-4773	4.9	30
133	Martian magnetic storms. Journal of Geophysical Research: Space Physics, 2017, 122, 6185-6209	2.6	29
132	Implications of MAVEN Mars near-wake measurements and models. <i>Geophysical Research Letters</i> , 2015 , 42, 9087-9094	4.9	28
131	Low-frequency plasma oscillations at Mars during the October 2003 solar storm. <i>Journal of Geophysical Research</i> , 2005 , 110,		28
130	MAVEN observations of tail current sheet flapping at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4308-4324	2.6	27
129	Interplanetary coronal mass ejection influence on high energy pick-up ions at Venus. <i>Planetary and Space Science</i> , 2010 , 58, 1784-1791	2	27
128	The Effect of Solar Wind Variations on the Escape of Oxygen Ions From Mars Through Different Channels: MAVEN Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,285-11,30	1 ^{2.6}	26
127	Global Aurora on Mars During the September 2017 Space Weather Event. <i>Geophysical Research Letters</i> , 2018 , 45, 7391-7398	4.9	26
126	Survey of magnetic reconnection signatures in the Martian magnetotal with MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5114-5131	2.6	25
125	Ionizing Electrons on the Martian Nightside: Structure and Variability. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4349-4363	2.6	25
124	Planetary magnetic field control of ion escape from weakly magnetized planets. <i>Monthly Notices of the Royal Astronomical Society</i> , 2019 , 488, 2108-2120	4.3	25
123	Statistical Study of Relations Between the Induced Magnetosphere, Ion Composition, and Pressure Balance Boundaries Around Mars Based On MAVEN Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9723-9737	2.6	25
122	Effects of solar irradiance on the upper ionosphere and oxygen ion escape at Mars: MAVEN observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 7142-7152	2.6	25
121	Marsward and tailward ions in the near-Mars magnetotail: MAVEN observations. <i>Geophysical Research Letters</i> , 2015 , 42, 8925-8932	4.9	25

120	Magnetosonic Mach number effect of the position of the bow shock at Mars in comparison to Venus. <i>Journal of Geophysical Research</i> , 2010 , 115,		25	
119	Plasma clouds and snowplows: Bulk plasma escape from Mars observed by MAVEN. <i>Geophysical Research Letters</i> , 2016 , 43, 1426-1434	4.9	24	
118	Upper Neutral Atmosphere and Ionosphere433-463		24	
117	Distribution and variability of accelerated electrons at Mars. Advances in Space Research, 2008, 41, 1347	-1.3452	24	
116	Investigation of Martian Magnetic Topology Response to 2017 September ICME. <i>Geophysical Research Letters</i> , 2018 , 45, 7337-7346	4.9	24	
115	The Three-Dimensional Bow Shock of Mars as Observed by MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4542-4555	2.6	24	
114	Evidence for small-scale collisionless shocks at the Moon from ARTEMIS. <i>Geophysical Research Letters</i> , 2014 , 41, 7436-7443	4.9	23	
113	Temporal variability of waves at the proton cyclotron frequency upstream from Mars: Implications for Mars distant hydrogen exosphere. <i>Geophysical Research Letters</i> , 2013 , 40, 3809-3813	4.9	23	
112	Investigation of Mars' ionospheric response to solar energetic particle events. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		23	
111	A case study of proton precipitation at Mars: Mars Express observations and hybrid simulations. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		23	
110	Day-side ionospheric conductivities at Mars. <i>Planetary and Space Science</i> , 2010 , 58, 1139-1151	2	23	
109	Characterization of turbulence in the Mars plasma environment with MAVEN observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 656-674	2.6	22	
108	The Morphology of the Solar Wind Magnetic Field Draping on the Dayside of Mars and Its Variability. <i>Geophysical Research Letters</i> , 2018 , 45, 3356-3365	4.9	22	
107	Comparative study of the Martian suprathermal electron depletions based on Mars Global Surveyor, Mars Express, and Mars Atmosphere and Volatile EvolutioN mission observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 857-873	2.6	22	
106	Observational evidence of alpha-particle capture at Mars. Geophysical Research Letters, 2011, 38,	4.9	22	
105	Auroral Plasma Acceleration Above Martian Magnetic Anomalies. <i>Space Science Reviews</i> , 2007 , 126, 333	-3/554	22	
104	Estimates of Ionospheric Transport and Ion Loss at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,626-10,637	2.6	21	
103	The Martian Photoelectron Boundary as Seen by MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,472-10,485	2.6	21	

102	Energetic particles detected by the Electron Reflectometer instrument on the Mars Global Surveyor, 1999\(\textbf{0}006. \) Space Weather, 2012, 10, n/a-n/a	3.7	21
101	Magnetic Reconnection on Dayside Crustal Magnetic Fields at Mars: MAVEN Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 4550-4558	4.9	20
100	Time-dispersed ion signatures observed in the Martian magnetosphere by MAVEN. <i>Geophysical Research Letters</i> , 2015 , 42, 8910-8916	4.9	20
99	Dual-spacecraft observation of large-scale magnetic flux ropes in the Martian ionosphere. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		20
98	Evaluating predictions of ICME arrival at Earth and Mars. Space Weather, 2011, 9, n/a-n/a	3.7	20
97	High-Altitude Closed Magnetic Loops at Mars Observed by MAVEN. <i>Geophysical Research Letters</i> , 2017 , 44, 11,229-11,238	4.9	19
96	The Influence of Solar Wind Pressure on Martian Crustal Magnetic Field Topology. <i>Geophysical Research Letters</i> , 2019 , 46, 2347-2354	4.9	19
95	MARSIS remote sounding of localized density structures in the dayside Martian ionosphere: A study of controlling parameters. <i>Journal of Geophysical Research: Space Physics</i> , 2015 , 120, 8125-8145	2.6	19
94	A chain of magnetic flux ropes in the magnetotail of Mars. <i>Geophysical Research Letters</i> , 2012 , 39, n/a-r	n/aµ.9	19
93	Probing upper thermospheric neutral densities at Mars using electron reflectometry. <i>Geophysical Research Letters</i> , 2005 , 32,	4.9	19
92	Magnetic field draping around Mars: Mars Global Surveyor results. <i>Advances in Space Research</i> , 2001 , 27, 1831-1836	2.4	19
91	MAVEN observations of electron-induced whistler mode waves in the Martian magnetosphere. Journal of Geophysical Research: Space Physics, 2016 , 121, 9717-9731	2.6	19
90	Large-amplitude compressive Bawtooth Imagnetic field oscillations in the Martian magnetosphere. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		18
89	On wind-driven electrojets at magnetic cusps in the nightside ionosphere of Mars. <i>Earth, Planets and Space</i> , 2012 , 64, 93-103	2.9	18
88	Solar energetic particles in near-Mars space. <i>Journal of Geophysical Research</i> , 2007 , 112,		18
87	Continuous monitoring of nightside upper thermospheric mass densities in the martian southern hemisphere over 4 martian years using electron reflectometry. <i>Icarus</i> , 2008 , 194, 562-574	3.8	18
86	Rosetta and Mars Express observations of the influence of high solar wind pressure on the Martian plasma environment. <i>Annales Geophysicae</i> , 2009 , 27, 4533-4545	2	18
85	Statistical Study of Heavy Ion Outflows From Mars Observed in the Martian-Induced Magnetotail by MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5482-5497	2.6	17

84	Evidence for superthermal secondary electrons produced by SEP ionization in the Martian atmosphere. <i>Journal of Geophysical Research</i> , 2012 , 117, n/a-n/a		17	
83	MAVEN observation of an obliquely propagating low-frequency wave upstream of Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 2374-2389	2.6	16	
82	Dynamics of planetary ions in the induced magnetospheres of Venus and Mars. <i>Planetary and Space Science</i> , 2016 , 127, 1-14	2	16	
81	The global current systems of the Martian induced magnetosphere. <i>Nature Astronomy</i> , 2020 , 4, 979-985	5 12.1	16	
80	MAVEN observations on a hemispheric asymmetry of precipitating ions toward the Martian upper atmosphere according to the upstream solar wind electric field. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1083-1101	2.6	15	
79	MAVEN observations of energy-time dispersed electron signatures in Martian crustal magnetic fields. <i>Geophysical Research Letters</i> , 2016 , 43, 939-944	4.9	15	
78	Solar wind interaction effects on the magnetic fields around Mars: Consequences for interplanetary and crustal field measurements. <i>Planetary and Space Science</i> , 2015 , 117, 15-23	2	15	
77	Formation processes of flux ropes downstream from Martian crustal magnetic fields inferred from Grad-Shafranov reconstruction. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 7947-7962	2.6	15	
76	Global distribution, structure, and solar wind control of low altitude current sheets at Mars. <i>Icarus</i> , 2010 , 206, 64-73	3.8	15	
75	Radar absorption due to a corotating interaction region encounter with Mars detected by MARSIS. <i>Icarus</i> , 2010 , 206, 95-103	3.8	15	
74	On the origins of magnetic flux ropes in near-Mars magnetotail current sheets. <i>Geophysical Research Letters</i> , 2017 , 44, 7653-7662	4.9	14	
73	The spatial structure of Martian magnetic flux ropes recovered by the Grad-Shafranov reconstruction technique. <i>Journal of Geophysical Research: Space Physics</i> , 2014 , 119, 1262-1271	2.6	14	
72	Search for Phobos and Deimos gas/dust tori using in situ observations from Mars Global Surveyor MAG/ER. <i>Icarus</i> , 2010 , 206, 189-198	3.8	14	
71	Effects of the Crustal Magnetic Fields and Changes in the IMF Orientation on the Magnetosphere of Mars: MAVEN Observations and LatHyS Results. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 5315-5333	2.6	14	
7º	Structure and Variability of the Martian Ion Composition Boundary Layer. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8439-8458	2.6	14	
69	Cold Dense Ion Outflow Observed in the Martian-Induced Magnetotail by MAVEN. <i>Geophysical Research Letters</i> , 2018 , 45, 5283-5289	4.9	14	
68	MAVEN observations of a giant ionospheric flux rope near Mars resulting from interaction between the crustal and interplanetary draped magnetic fields. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 828-842	2.6	13	
67	MARSIS Observations of the Martian Nightside Ionosphere During the September 2017 Solar Event. Geophysical Research Letters, 2018 , 45, 7960-7967	4.9	13	

66	Responses of the Martian Magnetosphere to an Interplanetary Coronal Mass Ejection: MAVEN Observations and LatHyS Results. <i>Geophysical Research Letters</i> , 2018 , 45, 7891-7900	4.9	13
65	Estimation of the spatial structure of a detached magnetic flux rope at Mars based on simultaneous MAVEN plasma and magnetic field observations. <i>Geophysical Research Letters</i> , 2015 , 42, 8933-8941	4.9	13
64	Observation of conical electron distributions over Martian crustal magnetic fields. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		13
63	MAVEN observations of magnetic flux ropes with a strong field amplitude in the Martian magnetosheath during the ICME passage on 8 March 2015. <i>Geophysical Research Letters</i> , 2016 , 43, 4816	- 4 824	13
62	Oxygen Ion Energization at Mars: Comparison of MAVEN and Mars Express Observations to Global Hybrid Simulation. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 1678-1689	2.6	12
61	Solar Wind Interaction and Atmospheric Escape464-496		12
60	Emirates Mars Mission Characterization of Mars Atmosphere Dynamics and Processes. <i>Space Science Reviews</i> , 2021 , 217,	7.5	12
59	Field-Aligned Electrostatic Potentials Above the Martian Exobase From MGS Electron Reflectometry: Structure and Variability. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 67-92	4.1	11
58	Correlations between variations in solar EUV and soft X-ray irradiance and photoelectron energy spectra observed on Mars and Earth. <i>Journal of Geophysical Research: Space Physics</i> , 2013 , 118, 7338-734	1 7 .6	11
57	Multipoint observations of coronal mass ejection and solar energetic particle events on Mars and Earth during November 2001. <i>Journal of Geophysical Research</i> , 2011 , 116, n/a-n/a		11
56	Influence of IMF draping direction and crustal magnetic field location on Martian ion beams. <i>Planetary and Space Science</i> , 2008 , 56, 861-867	2	11
55	Evidence for Crustal Magnetic Field Control of Ions Precipitating Into the Upper Atmosphere of Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 8572-8586	2.6	11
54	Characterizing Mars's Magnetotail Topology With Respect to the Upstream Interplanetary Magnetic Fields. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, no	2.6	10
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