David A Brain

List of Publications by Year in Descending Order

209 papers	6,820 citations	46 h-index	69 g-index
227 ext. papers	7,852 ext. citations	4.3 avg, IF	5.49 L-index

#	Paper	IF	Citations
209	The Emirates Mars Mission.. *Space Science Reviews*, **2022**, 218, 4	7.5	7
208	The Mars system revealed by the Martian Moons eXploration mission. *Earth, Planets and Space*, **2022**, 74,	2.9	4
207	Energetic Neutral Atoms near Mars: Predicted Distributions Based on MAVEN Measurements. *Astrophysical Journal*, **2022**, 927, 11	4.7	1
206	MOSAIC: A Satellite Constellation to Enable Groundbreaking Mars Climate System Science and Prepare for Human Exploration. *Planetary Science Journal*, **2021**, 2, 211	2.9	1
205	Seasonal and Dust-Related Variations in the Dayside Thermospheric and Ionospheric Compositions of Mars Observed by MAVEN/NGIMS. *Journal of Geophysical Research E: Planets*, **2021**, 126, e2021JE006926	4.1	2
204	Emirates Mars Mission Characterization of Mars Atmosphere Dynamics and Processes. *Space Science Reviews*, **2021**, 217,	7.5	12
203	Induced Magnetospheres. *Geophysical Monograph Series*, **2021**, 441-451	1.1	1
202	MAVEN Survey of Magnetic Flux Rope Properties in the Martian Ionosphere: Comparison With Three Types of Formation Mechanisms. *Geophysical Research Letters*, **2021**, 48, e2021GL093296	4.9	3
201	Test Particle Model Predictions of SEP Electron Transport and Precipitation at Mars. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029132	2.6	1
200	Martian Crustal Field Influence on O+ and O2+ Escape as Measured by MAVEN. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029234	2.6	4
199	Discrete Aurora on Mars: Insights Into Their Distribution and Activity From MAVEN/IUVS Observations. *Journal of Geophysical Research: Space Physics*, **2021**, 126, e2021JA029428	2.6	3
198	Characterizing Mars's Magnetotail Topology With Respect to the Upstream Interplanetary Magnetic Fields. *Journal of Geophysical Research: Space Physics*, **2020**, 125, no	2.6	10
197	Inverted-V Electron Acceleration Events Concurring With Localized Auroral Observations at Mars by MAVEN. *Geophysical Research Letters*, **2020**, 47, e2020GL087414	4.9	10
196	The global current systems of the Martian induced magnetosphere. *Nature Astronomy*, **2020**, 4, 979-985	12.1	16
195	Variations in Nightside Magnetic Field Topology at Mars. *Geophysical Research Letters*, **2020**, 47, e2020GL088921	4.9	21
194	The Influence of Interplanetary Magnetic Field Direction on Martian Crustal Magnetic Field Topology. *Geophysical Research Letters*, **2020**, 47, e2020GL087757	4.9	7
193	Magnetic Reconnection in the Ionosphere of Mars: The Role of Collisions. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028036	2.6	6

192	Properties of Plasma Waves Observed Upstream From Mars. *Journal of Geophysical Research: Space Physics*, **2020**, 125, e2020JA028221	2.6	9
191	Magnetospheric Studies: A Requirement for Addressing Interdisciplinary Mysteries in the Ice Giant Systems. *Space Science Reviews*, **2020**, 216, 1	7.5	10
190	Low Electron Temperatures Observed at Mars by MAVEN on Dayside Crustal Magnetic Field Lines. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 7629-7637	2.6	7
189	Magnetic Field in the Martian Magnetosheath and the Application as an IMF Clock Angle Proxy. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 4295-4313	2.6	7
188	Stellar influence on heavy ion escape from unmagnetized exoplanets. *Monthly Notices of the Royal Astronomical Society*, **2019**, 486, 1283-1291	4.3	9
187	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
186	The Influence of Solar Wind Pressure on Martian Crustal Magnetic Field Topology. *Geophysical Research Letters*, **2019**, 46, 2347-2354	4.9	19
185	MAVEN Case Studies of Plasma Dynamics in Low-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	2.6	3
184	Statistical Study of Heavy Ion Outflows From Mars Observed in the Martian-Induced Magnetotail by MAVEN. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 5482-5497	2.6	17
183	Planetary magnetic field control of ion escape from weakly magnetized planets. *Monthly Notices of the Royal Astronomical Society*, **2019**, 488, 2108-2120	4.3	25
182	Locally Generated ULF Waves in the Martian Magnetosphere: MAVEN Observations. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 8707-8726	2.6	3
181	Oxygen Ion Energization at Mars: Comparison of MAVEN and Mars Express Observations to Global Hybrid Simulation. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 1678-1689	2.6	12
180	One-Hertz Waves at Mars: MAVEN Observations. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 3460-3476	2.6	6
179	Statistical Similarities Between WSA-ENLIL+Cone Model and MAVEN in Situ Observations From November 2014 to March 2016. *Space Weather*, **2018**, 16, 157-171	3.7	1
178	Magnetic Reconnection on Dayside Crustal Magnetic Fields at Mars: MAVEN Observations. *Geophysical Research Letters*, **2018**, 45, 4550-4558	4.9	20
177	The Morphology of the Solar Wind Magnetic Field Draping on the Dayside of Mars and Its Variability. *Geophysical Research Letters*, **2018**, 45, 3356-3365	4.9	22
176	The LatHyS database for planetary plasma environment investigations: Overview and a case study of data/model comparisons. *Planetary and Space Science*, **2018**, 150, 13-21	2	7
175	The Twisted Configuration of the Martian Magnetotail: MAVEN Observations. *Geophysical Research Letters*, **2018**, 45, 4559-4568	4.9	38

174	Ionizing Electrons on the Martian Nightside: Structure and Variability. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 4349-4363	2.6	25
173	MARSIS Observations of the Martian Nightside Ionosphere During the September 2017 Solar Event. *Geophysical Research Letters*, **2018**, 45, 7960-7967	4.9	13
172	Responses of the Martian Magnetosphere to an Interplanetary Coronal Mass Ejection: MAVEN Observations and LatHyS Results. *Geophysical Research Letters*, **2018**, 45, 7891-7900	4.9	13
171	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	4.9	49
170	Field-Aligned Electrostatic Potentials Above the Martian Exobase From MGS Electron Reflectometry: Structure and Variability. *Journal of Geophysical Research E: Planets*, **2018**, 123, 67-92	4.1	11
169	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	2.6	14
168	Comparison of Global Martian Plasma Models in the Context of MAVEN Observations. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 3714-3726	2.6	7
167	Structure and Variability of the Martian Ion Composition Boundary Layer. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 8439-8458	2.6	14
166	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	2.6	11
165	Investigation of Martian Magnetic Topology Response to 2017 September ICME. *Geophysical Research Letters*, **2018**, 45, 7337-7346	4.9	24
164	A Proxy for the Upstream IMF Clock Angle Using MAVEN Magnetic Field Data. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 9612-9618	2.6	5
163	An Artificial Neural Network for Inferring Solar Wind Proxies at Mars. *Geophysical Research Letters*, **2018**, 45, 10,855	4.9	6
162	The Three-Dimensional Bow Shock of Mars as Observed by MAVEN. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 4542-4555	2.6	24
161	Global Aurora on Mars During the September 2017 Space Weather Event. *Geophysical Research Letters*, **2018**, 45, 7391-7398	4.9	26
160	Modeling Martian Atmospheric Losses over Time: Implications for Exoplanetary Climate Evolution and Habitability. *Astrophysical Journal Letters*, **2018**, 859, L14	7.9	40
159	Cold Dense Ion Outflow Observed in the Martian-Induced Magnetotail by MAVEN. *Geophysical Research Letters*, **2018**, 45, 5283-5289	4.9	14
158	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	3.8	136
157	Martian low-altitude magnetic topology deduced from MAVEN/SWEA observations. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 1831-1852	2.6	74

156	Characterization of turbulence in the Mars plasma environment with MAVEN observations. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 656-674	2.6	22
155	MAVEN observations on a hemispheric asymmetry of precipitating ions toward the Martian upper atmosphere according to the upstream solar wind electric field. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 1083-1101	2.6	15
154	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
153	Survey of magnetic reconnection signatures in the Martian magnetotail with MAVEN. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 5114-5131	2.6	25
152	Martian magnetic storms. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 6185-6209	2.6	29
151	MAVEN observations of tail current sheet flapping at Mars. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 4308-4324	2.6	27
150	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	2.6	13
149	Estimates of Ionospheric Transport and Ion Loss at Mars. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 10,626-10,637	2.6	21
148	High-Altitude Closed Magnetic Loops at Mars Observed by MAVEN. *Geophysical Research Letters*, **2017**, 44, 11,229-11,238	4.9	19
147	On the origins of magnetic flux ropes in near-Mars magnetotail current sheets. *Geophysical Research Letters*, **2017**, 44, 7653-7662	4.9	14
146	The Response of the Martian Atmosphere to Space Weather. *Proceedings of the International Astronomical Union*, **2017**, 13, 114-120	0.1	1
145	Characterization of Low-Altitude Nightside Martian Magnetic Topology Using Electron Pitch Angle Distributions. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 9777-9789	2.6	32
144	The Martian Photoelectron Boundary as Seen by MAVEN. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 10,472-10,485	2.6	21
143	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	2.6	25
142	Ion escape rates from Mars: Results from hybrid simulations compared to MAVEN observations. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 8391-8408	2.6	10
141	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	2.6	25
140	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	2.6	37
139	Statistical analysis of the reflection of incident O+ pickup ions at Mars: MAVEN observations. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 4089-4101	2.6	6

138	Flows, Fields, and Forces in the Mars-Solar Wind Interaction. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 11,320-11,341	2.6	39
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	2.6	22
136	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, 11,285-11,301	2.6	26
135	Martian magnetism with orbiting sub-millimeter sensor: simulated retrieval system. *Geoscientific Instrumentation, Methods and Data Systems*, **2017**, 6, 27-37	1.5	3
134	A Monte Carlo model of crustal field influences on solar energetic particle precipitation into the Martian atmosphere. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 5653-5669	2.6	4
133	O+ ion beams reflected below the Martian bow shock: MAVEN observations. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 3093-3107	2.6	8
132	Plasma clouds and snowplows: Bulk plasma escape from Mars observed by MAVEN. *Geophysical Research Letters*, **2016**, 43, 1426-1434	4.9	24
131	MAVEN observations of partially developed Kelvin-Helmholtz vortices at Mars. *Geophysical Research Letters*, **2016**, 43, 4763-4773	4.9	30
130	Continuous solar wind forcing knowledge: Providing continuous conditions at Mars with the WSA-ENLIL + Cone model. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 6207-6222	2.6	8
129	MAVEN observation of an obliquely propagating low-frequency wave upstream of Mars. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 2374-2389	2.6	16
128	Space Weather Storm Responses at Mars: Lessons from A Weakly Magnetized Terrestrial Planet. *Proceedings of the International Astronomical Union*, **2016**, 12, 211-217	0.1	
127	MAVEN observations of energy-time dispersed electron signatures in Martian crustal magnetic fields. *Geophysical Research Letters*, **2016**, 43, 939-944	4.9	15
126	Dynamics of planetary ions in the induced magnetospheres of Venus and Mars. *Planetary and Space Science*, **2016**, 127, 1-14	2	16
125	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, 11,113-11,128	2.6	40
124	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
123	Atmospheric escape from unmagnetized bodies. *Journal of Geophysical Research E: Planets*, **2016**, 121, 2364-2385	4.1	33
122	Solar control of the Martian magnetic topology: Implications from model-data comparisons. *Planetary and Space Science*, **2016**, 128, 1-13	2	3
121	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	4.9	13

120	Mars-solar wind interaction: LatHyS, an improved parallel 3-D multispecies hybrid model. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 6378-6399	2.6	43
119	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. *Space Science Reviews*, **2015**, 195, 3-48	7.5	405
118	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. *Science*, **2015**, 350, aad0210	33.3	131
117	Discovery of diffuse aurora on Mars. *Science*, **2015**, 350, aad0313	33.3	71
116	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. *Science*, **2015**, 350, aad0459	33.3	77
115	Characterizing Atmospheric Escape from Mars Today and Through Time, with MAVEN. *Space Science Reviews*, **2015**, 195, 357-422	7.5	88
114	Magnetotail dynamics at Mars: Initial MAVEN observations. *Geophysical Research Letters*, **2015**, 42, 8828-8837	4.9	37
113	Response of Mars O+ pickup ions to the 8 March 2015 ICME: Inferences from MAVEN data-based models. *Geophysical Research Letters*, **2015**, 42, 9095-9102	4.9	37
112	Moon's Plasma Wake. *Geophysical Monograph Series*, **2015**, 149-167	1.1	9
111	Control of Mars global atmospheric loss by the continuous rotation of the crustal magnetic field: A time-dependent MHD study. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 10,926	2.6	39
110	Strong plume fluxes at Mars observed by MAVEN: An important planetary ion escape channel. *Geophysical Research Letters*, **2015**, 42, 8942-8950	4.9	100
109	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	4.9	45
108	First results of the MAVEN magnetic field investigation. *Geophysical Research Letters*, **2015**, 42, 8819-8827	4.9	75
107	Time-dispersed ion signatures observed in the Martian magnetosphere by MAVEN. *Geophysical Research Letters*, **2015**, 42, 8910-8916	4.9	20
106	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	2.6	19
105	Magnetic reconnection in the near-Mars magnetotail: MAVEN observations. *Geophysical Research Letters*, **2015**, 42, 8838-8845	4.9	45
104	Marsward and tailward ions in the near-Mars magnetotail: MAVEN observations. *Geophysical Research Letters*, **2015**, 42, 8925-8932	4.9	25
103	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	4.9	13

102	Asymmetric penetration of shocked solar wind down to 400 km altitudes at Mars. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 6874-6883	2.6	4
101	Implications of MAVEN Mars near-wake measurements and models. *Geophysical Research Letters*, **2015**, 42, 9087-9094	4.9	28
100	A comet engulfs Mars: MAVEN observations of comet Siding Spring's influence on the Martian magnetosphere. *Geophysical Research Letters*, **2015**, 42, 8810-8818	4.9	8
99	Initial results from the MAVEN mission to Mars. *Geophysical Research Letters*, **2015**, 42, 8791-8802	4.9	82
98	The spatial distribution of planetary ion fluxes near Mars observed by MAVEN. *Geophysical Research Letters*, **2015**, 42, 9142-9148	4.9	95
97	Solar wind interaction effects on the magnetic fields around Mars: Consequences for interplanetary and crustal field measurements. *Planetary and Space Science*, **2015**, 117, 15-23	2	15
96	The spatial structure of Martian magnetic flux ropes recovered by the Grad-Shafranov reconstruction technique. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 1262-1271	2.6	14
95	Formation processes of flux ropes downstream from Martian crustal magnetic fields inferred from Grad-Shafranov reconstruction. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 7947-7962	2.6	15
94	Evidence for small-scale collisionless shocks at the Moon from ARTEMIS. *Geophysical Research Letters*, **2014**, 41, 7436-7443	4.9	23
93	Aurora in Martian Mini Magnetospheres. *Geophysical Monograph Series*, **2013**, 123-132	1.1	9
92	Simulated kinetic effects of the corona and solar cycle on high altitude ion transport at Mars. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 3700-3711	2.6	10
91	Correlations between variations in solar EUV and soft X-ray irradiance and photoelectron energy spectra observed on Mars and Earth. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 7338-7347	2.6	11
90	Nightside electron precipitation at Mars: Geographic variability and dependence on solar wind conditions. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 3546-3556	2.6	58
89	Temporal variability of waves at the proton cyclotron frequency upstream from Mars: Implications for Mars distant hydrogen exosphere. *Geophysical Research Letters*, **2013**, 40, 3809-3813	4.9	23
88	Planetary Magnetic Fields and Climate Evolution **2013**,		6
87	Atmospheric Escape and Climate Evolution of Terrestrial Planets **2013**,		8
86	A chain of magnetic flux ropes in the magnetotail of Mars. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	19
85	Evidence for superthermal secondary electrons produced by SEP ionization in the Martian atmosphere. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		17

84	Energetic particles detected by the Electron Reflectometer instrument on the Mars Global Surveyor, 1999–2006. *Space Weather*, **2012**, 10, n/a-n/a	3.7	21
83	On wind-driven electrojets at magnetic cusps in the nightside ionosphere of Mars. *Earth, Planets and Space*, **2012**, 64, 93-103	2.9	18
82	Investigation of Mars' ionospheric response to solar energetic particle events. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		23
81	A case study of proton precipitation at Mars: Mars Express observations and hybrid simulations. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		23
80	On the relation between plasma escape and the Martian crustal magnetic field. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	41
79	Dual-spacecraft observation of large-scale magnetic flux ropes in the Martian ionosphere. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		20
78	Observation of conical electron distributions over Martian crustal magnetic fields. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		13
77	Multipoint observations of coronal mass ejection and solar energetic particle events on Mars and Earth during November 2001. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		11
76	Observational evidence of alpha-particle capture at Mars. *Geophysical Research Letters*, **2011**, 38,	4.9	22
75	Large-amplitude compressive "sawtooth" magnetic field oscillations in the Martian magnetosphere. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		18
74	Three-dimensional structure of the Martian nightside ionosphere: Predicted rates of impact ionization from Mars Global Surveyor magnetometer and electron reflectometer measurements of precipitating electrons. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		56
73	Areas of enhanced ionization in the deep nightside ionosphere of Mars. *Journal of Geophysical Research*, **2011**, 116,		44
72	Evaluating predictions of ICME arrival at Earth and Mars. *Space Weather*, **2011**, 9, n/a-n/a	3.7	20
71	A statistical study of flux ropes in the Martian magnetosphere. *Planetary and Space Science*, **2011**, 59, 1498-1505	2	35
70	ARTEMIS Science Objectives. *Space Science Reviews*, **2011**, 165, 59-91	7.5	40
69	Parametric analysis of modeled ion escape from Mars. *Icarus*, **2011**, 212, 131-137	3.8	10
68	ARTEMIS Science Objectives **2011**, 27-59		4
67	Modeling photoelectron transport in the Martian ionosphere at Olympus Mons and Syrtis Major: MGS observations. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		8

66	Magnetosonic Mach number effect of the position of the bow shock at Mars in comparison to Venus. *Journal of Geophysical Research*, **2010**, 115,		25
65	Episodic detachment of Martian crustal magnetic fields leading to bulk atmospheric plasma escape. *Geophysical Research Letters*, **2010**, 37, n/a-n/a	4.9	80
64	Total electron content in the Mars ionosphere: Temporal studies and dependence on solar EUV flux. *Journal of Geophysical Research*, **2010**, 115, n/a-n/a		36
63	A comparison of global models for the solar wind interaction with Mars. *Icarus*, **2010**, 206, 139-151	3.8	92
62	Day-side ionospheric conductivities at Mars. *Planetary and Space Science*, **2010**, 58, 1139-1151	2	23
61	Interplanetary coronal mass ejection influence on high energy pick-up ions at Venus. *Planetary and Space Science*, **2010**, 58, 1784-1791	2	27
60	Global distribution, structure, and solar wind control of low altitude current sheets at Mars. *Icarus*, **2010**, 206, 64-73	3.8	15
59	Localized ionization patches in the nighttime ionosphere of Mars and their electrodynamic consequences. *Icarus*, **2010**, 206, 112-119	3.8	50
58	Ion escape from Mars as a function of solar wind conditions: A statistical study. *Icarus*, **2010**, 206, 40-49	3.8	55
57	Radar absorption due to a corotating interaction region encounter with Mars detected by MARSIS. *Icarus*, **2010**, 206, 95-103	3.8	15
56	Dayside induced magnetic field in the ionosphere of Mars. *Icarus*, **2010**, 206, 104-111	3.8	41
55	Search for Phobos and Deimos gas/dust tori using in situ observations from Mars Global Surveyor MAG/ER. *Icarus*, **2010**, 206, 189-198	3.8	14
54	In situ observations of reconnection Hall magnetic fields at Mars: Evidence for ion diffusion region encounters. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		52
53	Nightside ionosphere of Mars: Modeling the effects of crustal magnetic fields and electron pitch angle distributions on electron impact ionization. *Journal of Geophysical Research*, **2009**, 114,		79
52	Plasma boundary variability at Mars as observed by Mars Global Surveyor and Mars Express. *Annales Geophysicae*, **2009**, 27, 3537-3550	2	55
51	Rosetta and Mars Express observations of the influence of high solar wind pressure on the Martian plasma environment. *Annales Geophysicae*, **2009**, 27, 4533-4545	2	18
50	Evidence for collisionless magnetic reconnection at Mars. *Geophysical Research Letters*, **2008**, 35,	4.9	77
49	Mars: A Richly Complicated Obstacle to the Solar Wind: Chapman Conference on the Solar Wind Interaction With Mars; San Diego, California, 22–25 January 2008. *Eos*, **2008**, 89, 212-212	1.5	

48	Observations of aurorae by SPICAM ultraviolet spectrograph on board Mars Express: Simultaneous ASPERA-3 and MARSIS measurements. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		58
47	Venus Express observations of atmospheric oxygen escape during the passage of several coronal mass ejections. *Journal of Geophysical Research*, **2008**, 113,		35
46	Distribution and variability of accelerated electrons at Mars. *Advances in Space Research*, **2008**, 41, 1347-1352	1.4	24
45	Mars Express and Venus Express multi-point observations of geoeffective solar flare events in December 2006. *Planetary and Space Science*, **2008**, 56, 873-880	2	88
44	Ionospheric photoelectrons at Venus: Initial observations by ASPERA-4 ELS. *Planetary and Space Science*, **2008**, 56, 802-806	2	44
43	Influence of IMF draping direction and crustal magnetic field location on Martian ion beams. *Planetary and Space Science*, **2008**, 56, 861-867	2	11
42	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	2	53
41	Solar wind interaction with lunar crustal magnetic anomalies. *Advances in Space Research*, **2008**, 41, 1319-1324	1.4	33
40	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	3.8	18
39	Absorption of MARSIS radar signals: Solar energetic particles and the daytime ionosphere. *Geophysical Research Letters*, **2007**, 34,	4.9	31
38	Solar energetic particles in near-Mars space. *Journal of Geophysical Research*, **2007**, 112,		18
37	Model calculations of electron precipitation induced ionization patches on the nightside of Mars. *Geophysical Research Letters*, **2007**, 34,	4.9	42
36	Electron pitch angle distributions as indicators of magnetic field topology near Mars. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		129
35	Extreme lunar surface charging during solar energetic particle events. *Geophysical Research Letters*, **2007**, 34,	4.9	57
34	Auroral Plasma Acceleration Above Martian Magnetic Anomalies. *Space Science Reviews*, **2007**, 126, 333-354	7.5	22
33	Mars Global Surveyor Measurements of the Martian Solar Wind Interaction. *Space Science Reviews*, **2007**, 126, 77-112	7.5	50
32	Auroral Plasma Acceleration above Martian Magnetic Anomalies **2007**, 333-354		1
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