

B M Jakosky

List of Publications by Year in Descending Order

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

289
papers

15,803
citations

62
h-index

115
g-index

311
ext. papers

18,001
ext. citations

6.5
avg, IF

6.34
L-index

#	Paper	IF	Citations
289	The Emirates Mars Mission.. <i>Space Science Reviews</i> , 2022 , 218, 4	7.5	7
288	Energetic Neutral Atoms near Mars: Predicted Distributions Based on MAVEN Measurements. <i>Astrophysical Journal</i> , 2022 , 927, 11	4.7	1
287	How did Mars lose its atmosphere and water?. <i>Physics Today</i> , 2022 , 75, 62-63	0.9	
286	In Situ Measurements of Thermal Ion Temperature in the Martian Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029531	2.6	3
285	Emirates Mars Mission Characterization of Mars Atmosphere Dynamics and Processes. <i>Space Science Reviews</i> , 2021 , 217,	7.5	12
284	Martian Hydrated Minerals: A Significant Water Sink. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2019JE006351	4.1	6
283	Dust Storm-Enhanced Gravity Wave Activity in the Martian Thermosphere Observed by MAVEN and Implication for Atmospheric Escape. <i>Geophysical Research Letters</i> , 2021 , 48, e2020GL092095	4.9	15
282	Estimate of the D/H Ratio in the Martian Upper Atmosphere from the Low Spectral Resolution Mode of MAVEN/IUVS. <i>Journal of Geophysical Research E: Planets</i> , 2021 , 126, e2020JE006814	4.1	0
281	Atmospheric Loss to Space and the History of Water on Mars. <i>Annual Review of Earth and Planetary Sciences</i> , 2021 , 49,	15.3	15
280	Rate coefficients for the reactions of CO ₂ ⁺ with O: Lessons from MAVEN at Mars. <i>Icarus</i> , 2021 , 358, 114186	3.86	6
279	Test Particle Model Predictions of SEP Electron Transport and Precipitation at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029132	2.6	1
278	Martian Crustal Field Influence on O ⁺ and O ₂ ⁺ Escape as Measured by MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029234	2.6	4
277	Discrete Aurora on Mars: Insights Into Their Distribution and Activity From MAVEN/IUVS Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2021 , 126, e2021JA029428	2.6	3
276	The Magnetic Structure of the Subsolar MPB Current Layer From MAVEN Observations: Implications for the Hall Electric Force. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089230	4.9	1
275	Ly α Observations of Comet C/2013 A1 (Siding Spring) Using MAVEN IUVS Echelle. <i>Astronomical Journal</i> , 2020 , 160, 10	4.9	2
274	Constantly forming sporadic E-like layers and rifts in the Martian ionosphere and their implications for Earth. <i>Nature Astronomy</i> , 2020 , 4, 486-491	12.1	10
273	Effects of Global and Regional Dust Storms on the Martian Hot O Corona and Photochemical Loss. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2019JA027115	2.6	7

272	The MAVEN Radio Occultation Science Experiment (ROSE). <i>Space Science Reviews</i> , 2020 , 216, 1	7.5	12
271	The global current systems of the Martian induced magnetosphere. <i>Nature Astronomy</i> , 2020 , 4, 979-985	12.1	16
270	Vertical Propagation of Wave Perturbations in the Middle Atmosphere on Mars by MAVEN/IUVS. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2020JE006481	4.1	7
269	Influence of the Solar Wind Dynamic Pressure on the Ion Precipitation: MAVEN Observations and Simulation Results. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028183	2.6	0
268	Foreshock Cavities at Venus and Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, e2020JA028023	4.9	21
267	Seasonal and Latitudinal Variations of Dayside N ₂ /CO ₂ Ratio in the Martian Thermosphere Derived From MAVEN IUVS Observations. <i>Journal of Geophysical Research E: Planets</i> , 2020 , 125, e2020JE006378	4.1	3
266	Variations in Nightside Magnetic Field Topology at Mars. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL089261	4.9	21
265	The Influence of Interplanetary Magnetic Field Direction on Martian Crustal Magnetic Field Topology. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL087757	4.9	7
264	First Detection of Kilometer-Scale Density Irregularities in the Martian Ionosphere. <i>Geophysical Research Letters</i> , 2020 , 47, e2020GL090906	4.9	3
263	Mars Dust Storm Effects in the Ionosphere and Magnetosphere and Implications for Atmospheric Carbon Loss. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 125, no	2.6	12
262	Effect of the 2018 Martian Global Dust Storm on the CO ₂ Density in the Lower Nightside Thermosphere Observed From MAVEN/IUVS Lyman-Alpha Absorption. <i>Geophysical Research Letters</i> , 2020 , 47, e2019GL082889	4.9	10
261	Tidal Effects on the Longitudinal Structures of the Martian Thermosphere and Topside Ionosphere Observed by MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , 2020 , 126, e2020JA028562	2.6	4
260	Magnetic Field in the Martian Magnetosheath and the Application as an IMF Clock Angle Proxy. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 4295-4313	2.6	7
259	The CO ₂ inventory on Mars. <i>Planetary and Space Science</i> , 2019 , 175, 52-59	2	19
258	Seasonal Variability of Deuterium in the Upper Atmosphere of Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 2152-2164	2.6	6
257	Traveling Ionospheric Disturbances at Mars. <i>Geophysical Research Letters</i> , 2019 , 46, 4554-4563	4.9	6
256	Ionospheric ambipolar electric fields of Mars and Venus: Comparisons between theoretical predictions and direct observations of the electric potential drop. <i>Geophysical Research Letters</i> , 2019 , 46, 1168-1176	4.9	11
255	First In Situ Evidence of Mars Nonthermal Exosphere. <i>Geophysical Research Letters</i> , 2019 , 46, 4144-4150	4.9	4

254	The Influence of Solar Wind Pressure on Martian Crustal Magnetic Field Topology. <i>Geophysical Research Letters</i> , 2019 , 46, 2347-2354	4.9	19
253	MAVEN Case Studies of Plasma Dynamics in Low-Altitude Crustal Magnetic Field at Mars 1: Dayside Ion Spikes Associated With Radial Crustal Magnetic Fields. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 1239-1261	2.6	3
252	Influence of Extreme Ultraviolet Irradiance Variations on the Precipitating Ion Flux From MAVEN Observations. <i>Geophysical Research Letters</i> , 2019 , 46, 7761-7768	4.9	2
251	Mars Upper Atmospheric Responses to the 10 September 2017 Solar Flare: A Global, Time-Dependent Simulation. <i>Geophysical Research Letters</i> , 2019 , 46, 9334-9343	4.9	9
250	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
249	A Fast Fermi Acceleration at Mars Bow Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 5528-5538	2.6	5
248	Recovery Timescales of the Dayside Martian Magnetosphere to IMF Variability. <i>Geophysical Research Letters</i> , 2019 , 46, 10977-10986	4.9	9
247	Importance of Ambipolar Electric Field in Driving Ion Loss From Mars: Results From a Multifluid MHD Model With the Electron Pressure Equation Included. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 9040-9057	2.6	10
246	Expansion and Shrinking of the Martian Topside Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 9725-9738	2.6	8
245	Locally Generated ULF Waves in the Martian Magnetosphere: MAVEN Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 8707-8726	2.6	3
244	Mars Water and D/H Evolution From 3.3 Ga to Present. <i>Journal of Geophysical Research E: Planets</i> , 2019 , 124, 3344-3353	4.1	7
243	Proton Aurora on Mars: A Dayside Phenomenon Pervasive in Southern Summer. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 10533-10548	2.6	13
242	Global circulation of Mars' upper atmosphere. <i>Science</i> , 2019 , 366, 1363-1366	33.3	15
241	Variability of Precipitating Ion Fluxes During the September 2017 Event at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2019 , 124, 420-432	2.6	5
240	Correlations between enhanced electron temperatures and electric field wave power in the Martian ionosphere. <i>Geophysical Research Letters</i> , 2018 , 45, 493-501	4.9	8
239	First Ionospheric Results From the MAVEN Radio Occultation Science Experiment (ROSE). <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4171-4180	2.6	21
238	One-Hertz Waves at Mars: MAVEN Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3460-3476	2.6	6
237	Seasonal Variability of Neutral Escape From Mars as Derived From MAVEN Pickup Ion Observations. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 1192-1202	4.1	27

236	Evidence for Neutrals-Foreshock Electrons Impact at Mars. <i>Geophysical Research Letters</i> , 2018 , 45, 3768-3774	4.7	11
235	The Propitious Role of Solar Energetic Particles in the Origin of Life. <i>Astrophysical Journal</i> , 2018 , 853, 10	4.7	22
234	Thermospheric Expansion Associated With Dust Increase in the Lower Atmosphere on Mars Observed by MAVEN/NGIMS. <i>Geophysical Research Letters</i> , 2018 , 45, 2901-2910	4.9	20
233	Magnetic Reconnection on Dayside Crustal Magnetic Fields at Mars: MAVEN Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 4550-4558	4.9	20
232	Solar Wind Deflection by Mass Loading in the Martian Magnetosheath Based on MAVEN Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 2574-2579	4.9	13
231	On Mars's Atmospheric Sputtering After MAVEN's First Martian Year of Measurements. <i>Geophysical Research Letters</i> , 2018 , 45, 4685-4691	4.9	17
230	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
229	The LatHyS database for planetary plasma environment investigations: Overview and a case study of data/model comparisons. <i>Planetary and Space Science</i> , 2018 , 150, 13-21	2	7
228	Martian ionosphere observed by MAVEN. 3. Influence of solar wind and IMF on upper ionosphere. <i>Planetary and Space Science</i> , 2018 , 160, 56-65	2	13
227	Inventory of CO ₂ available for terraforming Mars. <i>Nature Astronomy</i> , 2018 , 2, 634-639	12.1	34
226	The Twisted Configuration of the Martian Magnetotail: MAVEN Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 4559-4568	4.9	38
225	Discovery of a proton aurora at Mars. <i>Nature Astronomy</i> , 2018 , 2, 802-807	12.1	29
224	Significant Space Weather Impact on the Escape of Hydrogen From Mars. <i>Geophysical Research Letters</i> , 2018 , 45, 8844-8852	4.9	18
223	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
222	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
221	Martian Thermospheric Response to an X8.2 Solar Flare on 10 September 2017 as Seen by MAVEN/IUVS. <i>Geophysical Research Letters</i> , 2018 , 45, 7312-7319	4.9	18
220	Reconnection in the Martian Magnetotail: Hall-MHD With Embedded Particle-in-Cell Simulations. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3742-3763	2.6	12
219	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

218	Comparison of Global Martian Plasma Models in the Context of MAVEN Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 3714-3726	2.6	7
217	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. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 7241-7256	2.6	17
216	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
215	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
214	Mars H Escape Rates Derived From MAVEN/IUVS Lyman Alpha Brightness Measurements and Their Dependence on Model Assumptions. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 2192-2210	4.1	24
213	Variability of Martian Turbopause Altitudes. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 2939-2957	4.1	22
212	An Artificial Neural Network for Inferring Solar Wind Proxies at Mars. <i>Geophysical Research Letters</i> , 2018 , 45, 10,855	4.9	6
211	Global Aurora on Mars During the September 2017 Space Weather Event. <i>Geophysical Research Letters</i> , 2018 , 45, 7391-7398	4.9	26
210	Mars Thermospheric Variability Revealed by MAVEN EUVM Solar Occultations: Structure at Aphelion and Perihelion and Response to EUV Forcing. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 2248-2269	4.1	17
209	Modeling Martian Atmospheric Losses over Time: Implications for Exoplanetary Climate Evolution and Habitability. <i>Astrophysical Journal Letters</i> , 2018 , 859, L14	7.9	40
208	Cold Dense Ion Outflow Observed in the Martian-Induced Magnetotail by MAVEN. <i>Geophysical Research Letters</i> , 2018 , 45, 5283-5289	4.9	14
207	The Impact and Solar Wind Proxy of the 2017 September ICME Event at Mars. <i>Geophysical Research Letters</i> , 2018 , 45, 7248-7256	4.9	21
206	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
205	MAVEN Observations of Solar Wind-Driven Magnetosonic Waves Heating the Martian Dayside Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018 , 123, 4129-4149	2.6	25
204	MAVEN measured oxygen and hydrogen pickup ions: Probing the Martian exosphere and neutral escape. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3689-3706	2.6	45
203	Implications of MAVEN's planetographic coordinate system for comparisons to other recent Mars orbital missions. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 802-807	2.6	5
202	Longitudinal structures in Mars' upper atmosphere as observed by MAVEN/NGIMS. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1258-1268	2.6	22
201	Variability of D and H in the Martian upper atmosphere observed with the MAVEN IUVS echelle channel. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2336-2344	2.6	52

200	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
199	Mars thermosphere as seen in MAVEN accelerometer data. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3798-3814	2.6	44
198	MAVEN and the total electron content of the Martian ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3526-3537	2.6	10
197	Photochemical escape of oxygen from Mars: First results from MAVEN in situ data. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3815-3836	2.6	74
196	Martian electron foreshock from MAVEN observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1531-1541	2.6	10
195	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
194	Structure, dynamics, and seasonal variability of the Mars-solar wind interaction: MAVEN Solar Wind Ion Analyzer in-flight performance and science results. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 547-578	2.6	127
193	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
192	Nightside ionosphere of Mars: Composition, vertical structure, and variability. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4712-4725	2.6	33
191	Seasonal variability of Martian ion escape through the plume and tail from MAVEN observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4009-4022	2.6	43
190	Unique, non-Earthlike, meteoritic ion behavior in upper atmosphere of Mars. <i>Geophysical Research Letters</i> , 2017 , 44, 3066-3072	4.9	27
189	MAVEN observations of the solar cycle 24 space weather conditions at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2768-2794	2.6	55
188	Survey of magnetic reconnection signatures in the Martian magnetotail with MAVEN. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5114-5131	2.6	25
187	Martian magnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 6185-6209	2.6	29
186	Martian mesospheric cloud observations by IUVS on MAVEN: Thermal tides coupled to the upper atmosphere. <i>Geophysical Research Letters</i> , 2017 , 44, 4709-4715	4.9	16
185	MAVEN NGIMS observations of atmospheric gravity waves in the Martian thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2310-2335	2.6	63
184	He bulge revealed: He and CO ₂ diurnal and seasonal variations in the upper atmosphere of Mars as detected by MAVEN NGIMS. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2564-2573	2.6	33
183	Detection of a persistent meteoric metal layer in the Martian atmosphere. <i>Nature Geoscience</i> , 2017 , 10, 401-404	18.3	46

182	Nitric oxide nightglow and Martian mesospheric circulation from MAVEN/IUVS observations and LMD-MGCM predictions. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5782-5797	2.6	29
181	MAVEN observations of tail current sheet flapping at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4308-4324	2.6	27
180	Mars' atmospheric history derived from upper-atmosphere measurements of Ar/Ar. <i>Science</i> , 2017 , 355, 1408-1410	33.3	138
179	The MAVEN EUVM model of solar spectral irradiance variability at Mars: Algorithms and results. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2748-2767	2.6	90
178	The structure and variability of Mars dayside thermosphere from MAVEN NGIMS and IUVS measurements: Seasonal and solar activity trends in scale heights and temperatures. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1296-1313	2.6	100
177	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
176	MAVEN observations of dayside peak electron densities in the ionosphere of Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 891-906	2.6	27
175	Hot oxygen escape from Mars: Simple scaling with solar EUV irradiance. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1102-1116	2.6	26
174	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
173	Spontaneous hot flow anomalies at Mars and Venus. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9910-9923	2.6	12
172	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
171	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
170	The role of the electron temperature on ion loss from Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8375-8390	2.6	10
169	Ion escape rates from Mars: Results from hybrid simulations compared to MAVEN observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8391-8408	2.6	10
168	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
167	Electric and magnetic variations in the near-Mars environment. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8536-8559	2.6	25
166	IUVS echelle-mode observations of interplanetary hydrogen: Standard for calibration and reference for cavity variations between Earth and Mars during MAVEN cruise. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2089-2105	2.6	9
165	MAVEN observations of the Mars upper atmosphere, ionosphere, and solar wind interactions. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 9552-9553	2.6	5

164	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, 4117-4137	2.6	37
163	Statistical analysis of the reflection of incident O ⁺ pickup ions at Mars: MAVEN observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4089-4101	2.6	6
162	On the Origins of Mars' Exospheric Nonthermal Oxygen Component as Observed by MAVEN and Modeled by HELIOSARES. <i>Journal of Geophysical Research E: Planets</i> , 2017 , 122, 2401-2428	4.1	19
161	Flows, Fields, and Forces in the Mars-Solar Wind Interaction. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 11,320-11,341	2.6	39
160	MAVEN Observations of Ionospheric Irregularities at Mars. <i>Geophysical Research Letters</i> , 2017 , 44, 10,845-10,859	2.6	11
159	The Variability of Atmospheric Deuterium Brightness at Mars: Evidence for Seasonal Dependence. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,811-10,823	2.6	10
158	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
157	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, 11,285-11,301	2.6	26
156	Variations of the Martian plasma environment during the ICME passage on 8 March 2015: A time-dependent MHD study. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 1714-1730	2.6	30
155	Global distribution and parameter dependences of gravity wave activity in the Martian upper thermosphere derived from MAVEN/NGIMS observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2374-2397	2.6	51
154	Electric Mars: A large trans-terminator electric potential drop on closed magnetic field lines above Utopia Planitia. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 2260-2271	2.6	11
153	Dynamic response of the Martian ionosphere to an interplanetary shock: Mars Express and MAVEN observations. <i>Geophysical Research Letters</i> , 2017 , 44, 9116-9123	4.9	10
152	Ion Heating in the Martian Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 10,612-10,625	2.6	16
151	A Monte Carlo model of crustal field influences on solar energetic particle precipitation into the Martian atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 5653-5669	2.6	4
150	Electron energetics in the Martian dayside ionosphere: Model comparisons with MAVEN data. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 7049-7066	2.6	34
149	O ⁺ ion beams reflected below the Martian bow shock: MAVEN observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 3093-3107	2.6	8
148	MAVEN Navigation During the First Mars Year of the Science Mission 2016 ,		1
147	The sustainability of habitability on terrestrial planets: Insights, questions, and needed measurements from Mars for understanding the evolution of Earth-like worlds. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 1927-1961	4.1	54

146	Plasma clouds and snowplows: Bulk plasma escape from Mars observed by MAVEN. <i>Geophysical Research Letters</i> , 2016 , 43, 1426-1434	4.9	24
145	MAVEN observations of partially developed Kelvin-Helmholtz vortices at Mars. <i>Geophysical Research Letters</i> , 2016 , 43, 4763-4773	4.9	30
144	Continuous solar wind forcing knowledge: Providing continuous conditions at Mars with the WSA-ENLIL + Cone model. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 6207-6222	2.6	8
143	Enhanced O ₂ ⁺ loss at Mars due to an ambipolar electric field from electron heating. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 4668-4678	2.6	36
142	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
141	Shadowing and anisotropy of solar energetic ions at Mars measured by MAVEN during the March 2015 solar storm. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 2818-2829	2.6	13
140	Space Weather Storm Responses at Mars: Lessons from A Weakly Magnetized Terrestrial Planet. <i>Proceedings of the International Astronomical Union</i> , 2016 , 12, 211-217	0.1	
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