

List of Publications by Citations

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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	Mars Global Surveyor Thermal Emission Spectrometer experiment: Investigation description and surface science results. <i>Journal of Geophysical Research</i> , 2001 , 106, 23823-23871		748
288	The Thermal Emission Imaging System (THEMIS) for the Mars 2001 Odyssey Mission. <i>Space Science Reviews</i> , 2004 , 110, 85-130	7.5	703
287	Thermal and albedo mapping of Mars during the Viking primary mission. <i>Journal of Geophysical Research</i> , 1977 , 82, 4249-4291		523
286	High-Resolution Thermal Inertia Mapping from the Mars Global Surveyor Thermal Emission Spectrometer. <i>Icarus</i> , 2000 , 148, 437-455	3.8	422
285	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. <i>Space Science Reviews</i> , 2015 , 195, 3-48	7.5	405
284	Ancient geodynamics and global-scale hydrology on Mars. <i>Science</i> , 2001 , 291, 2587-91	33.3	405
283	Mars' volatile and climate history. <i>Nature</i> , 2001 , 412, 237-44	50.4	348
282	Mineralogy of a mudstone at Yellowknife Bay, Gale crater, Mars. <i>Science</i> , 2014 , 343, 1243480	33.3	344
281	Mars' surface radiation environment measured with the Mars Science Laboratory's Curiosity rover. <i>Science</i> , 2014 , 343, 1244797	33.3	343
280	Morphology and composition of the surface of Mars: Mars Odyssey THEMIS results. <i>Science</i> , 2003 , 300, 2056-61	33.3	328
279	The Sample Analysis at Mars Investigation and Instrument Suite. <i>Space Science Reviews</i> , 2012 , 170, 401-478		320
278	The distribution and behavior of Martian ground ice during past and present epochs. <i>Journal of Geophysical Research</i> , 1995 , 100, 11781		306
277	The seasonal and global behavior of water vapor in the Mars atmosphere: Complete global results of the Viking Atmospheric Water Detector Experiment. <i>Journal of Geophysical Research</i> , 1982 , 87, 2999		280
276	Volatile and organic compositions of sedimentary rocks in Yellowknife Bay, Gale crater, Mars. <i>Science</i> , 2014 , 343, 1245267	33.3	277
275	Abundance and isotopic composition of gases in the martian atmosphere from the Curiosity rover. <i>Science</i> , 2013 , 341, 263-6	33.3	265
274	Geographic variations in the thermal and diffusive stability of ground ice on Mars. <i>Journal of Geophysical Research</i> , 1993 , 98, 3345-3364		250
273	New perspectives on ancient Mars. <i>Science</i> , 2005 , 307, 1214-20	33.3	230

272	Mars Atmospheric Loss and Isotopic Fractionation by Solar-Wind-Induced Sputtering and Photochemical Escape. <i>Icarus</i> , 1994 , 111, 271-288	3.8	227
271	The Solar Wind Ion Analyzer for MAVEN. <i>Space Science Reviews</i> , 2015 , 195, 125-151	7.5	210
270	Isotope ratios of H, C, and O in CO ₂ and H ₂ O of the martian atmosphere. <i>Science</i> , 2013 , 341, 260-3	33.3	189
269	MAVEN SupraThermal and Thermal Ion Composition (STATIC) Instrument. <i>Space Science Reviews</i> , 2015 , 195, 199-256	7.5	162
268	Possible precipitation of ice at low latitudes of Mars during periods of high obliquity. <i>Nature</i> , 1985 , 315, 559-561	50.4	161
267	The MAVEN Solar Wind Electron Analyzer. <i>Space Science Reviews</i> , 2016 , 200, 495-528	7.5	149
266	Mars' atmospheric history derived from upper-atmosphere measurements of Ar/Ar. <i>Science</i> , 2017 , 355, 1408-1410	33.3	138
265	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
264	Structure and composition of the neutral upper atmosphere of Mars from the MAVEN NGIMS investigation. <i>Geophysical Research Letters</i> , 2015 , 42, 8951-8957	4.9	134
263	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015 , 350, aad0210	33.3	131
262	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
261	Chaotic obliquity and the nature of the Martian climate. <i>Journal of Geophysical Research</i> , 1995 , 100, 1579		116
260	First measurements of composition and dynamics of the Martian ionosphere by MAVEN's Neutral Gas and Ion Mass Spectrometer. <i>Geophysical Research Letters</i> , 2015 , 42, 8958-8965	4.9	115
259	Subfreezing activity of microorganisms and the potential habitability of Mars' polar regions. <i>Astrobiology</i> , 2003 , 3, 343-50	3.7	115
258	On the thermal properties of Martian fines. <i>Icarus</i> , 1986 , 66, 117-124	3.8	114
257	Viking landing sites, remote-sensing observations, and physical properties of Martian surface materials. <i>Icarus</i> , 1989 , 81, 164-184	3.8	107
256	The biological potential of Mars, the early Earth, and Europa. <i>Journal of Geophysical Research</i> , 1998 , 103, 19359-64		106
255	The history of Martian volatiles. <i>Reviews of Geophysics</i> , 1997 , 35, 1-16	23.1	104

254	Dayside electron temperature and density profiles at Mars: First results from the MAVEN Langmuir probe and waves instrument. <i>Geophysical Research Letters</i> , 2015 , 42, 8846-8853	4.9	103
253	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
252	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
251	The spatial distribution of planetary ion fluxes near Mars observed by MAVEN. <i>Geophysical Research Letters</i> , 2015 , 42, 9142-9148	4.9	95
250	The seasonal cycle of water on Mars. <i>Space Science Reviews</i> , 1985 , 41, 131	7.5	95
249	Rock size-frequency distributions on Mars and implications for Mars Exploration Rover landing safety and operations. <i>Journal of Geophysical Research</i> , 2003 , 108,		91
248	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
247	Sublimation and transport of water from the north residual polar cap on Mars. <i>Journal of Geophysical Research</i> , 1990 , 95, 1423		89
246	Characterizing Atmospheric Escape from Mars Today and Through Time, with MAVEN. <i>Space Science Reviews</i> , 2015 , 195, 357-422	7.5	88
245	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
244	Mars volatile evolution: Evidence from stable isotopes. <i>Icarus</i> , 1991 , 94, 14-31	3.8	84
243	Initial results from the MAVEN mission to Mars. <i>Geophysical Research Letters</i> , 2015 , 42, 8791-8802	4.9	82
242	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015 , 350, aad0459	33.3	77
241	The structure and variability of Mars upper atmosphere as seen in MAVEN/IUVS dayglow observations. <i>Geophysical Research Letters</i> , 2015 , 42, 9023-9030	4.9	76
240	First results of the MAVEN magnetic field investigation. <i>Geophysical Research Letters</i> , 2015 , 42, 8819-8827	7.9	75
239	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
238	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
237	The thermal inertia of Mars from the Mars Global Surveyor Thermal Emission Spectrometer. <i>Journal of Geophysical Research</i> , 2000 , 105, 9643-9652		72

236	Discovery of diffuse aurora on Mars. <i>Science</i> , 2015 , 350, aad0313	33.3	71
235	Comparison of ground-based and Viking Orbiter measurements of Martian water vapor: Variability of the seasonal cycle. <i>Icarus</i> , 1984 , 57, 322-334	3.8	68
234	High-altitude gravity waves in the Martian thermosphere observed by MAVEN/NGIMS and modeled by a gravity wave scheme. <i>Geophysical Research Letters</i> , 2015 , 42, 8993-9000	4.9	65
233	Martian neutron leakage spectra. <i>Journal of Geophysical Research</i> , 1988 , 93, 6353		65
232	The role of seasonal reservoirs in the Mars water cycle. <i>Icarus</i> , 1983 , 55, 19-39	3.8	65
231	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
230	MAVEN observations of solar wind hydrogen deposition in the atmosphere of Mars. <i>Geophysical Research Letters</i> , 2015 , 42, 8901-8909	4.9	63
229	MAVEN IUVS observation of the hot oxygen corona at Mars. <i>Geophysical Research Letters</i> , 2015 , 42, 9009-9014	4.9	62
228	Mars low-latitude neutron distribution: Possible remnant near-surface water ice and a mechanism for its recent emplacement. <i>Icarus</i> , 2005 , 175, 58-67	3.8	62
227	Mars Exploration Rover candidate landing sites as viewed by THEMIS. <i>Icarus</i> , 2005 , 176, 12-43	3.8	62
226	Three-dimensional structure in the Mars H corona revealed by IUVS on MAVEN. <i>Geophysical Research Letters</i> , 2015 , 42, 9001-9008	4.9	59
225	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
224	The MAVEN Solar Energetic Particle Investigation. <i>Space Science Reviews</i> , 2015 , 195, 153-172	7.5	55
223	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
222	The role of seasonal reservoirs in the Mars water cycle. <i>Icarus</i> , 1983 , 55, 1-18	3.8	54
221	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
220	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
219	MAVEN IUVS observations of the aftermath of the Comet Siding Spring meteor shower on Mars. <i>Geophysical Research Letters</i> , 2015 , 42, 4755-4761	4.9	51

218	The first in situ electron temperature and density measurements of the Martian nightside ionosphere. <i>Geophysical Research Letters</i> , 2015 , 42, 8854-8861	4.9	50
217	Isotopes of nitrogen on Mars: Atmospheric measurements by Curiosity's mass spectrometer. <i>Geophysical Research Letters</i> , 2013 , 40, 6033-6037	4.9	50
216	Biological potential of Martian hydrothermal systems. <i>Astrobiology</i> , 2003 , 3, 407-14	3.7	50
215	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
214	A volcanic interpretation of Gusev Crater surface materials from thermophysical, spectral, and morphological evidence. <i>Journal of Geophysical Research</i> , 2005 , 110,		47
213	The Mars Water Cycle at Other Epochs: Recent History of the Polar Caps and Layered Terrain. <i>Icarus</i> , 1993 , 102, 286-297	3.8	47
212	Detection of a persistent meteoric metal layer in the Martian atmosphere. <i>Nature Geoscience</i> , 2017 , 10, 401-404	18.3	46
211	MHD model results of solar wind interaction with Mars and comparison with MAVEN plasma observations. <i>Geophysical Research Letters</i> , 2015 , 42, 9113-9120	4.9	46
210	MAVEN insights into oxygen pickup ions at Mars. <i>Geophysical Research Letters</i> , 2015 , 42, 8870-8876	4.9	46
209	Evolution of Martian atmospheric argon: Implications for sources of volatiles. <i>Journal of Geophysical Research</i> , 1996 , 101, 14933-14949		46
208	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
207	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
206	Magnetic reconnection in the near-Mars magnetotail: MAVEN observations. <i>Geophysical Research Letters</i> , 2015 , 42, 8838-8845	4.9	45
205	Mars thermosphere as seen in MAVEN accelerometer data. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 3798-3814	2.6	44
204	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
203	Water and water ions in the Martian thermosphere/ionosphere. <i>Geophysical Research Letters</i> , 2015 , 42, 8977-8985	4.9	42
202	Metallic ions in the upper atmosphere of Mars from the passage of comet C/2013 A1 (Siding Spring). <i>Geophysical Research Letters</i> , 2015 , 42, 4670-4675	4.9	41
201	Deep nightside photoelectron observations by MAVEN SWEA: Implications for Martian northern hemispheric magnetic topology and nightside ionosphere source. <i>Geophysical Research Letters</i> , 2016 , 43, 8876-8884	4.9	41

200	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	2.6	40
199	Modeling Martian Atmospheric Losses over Time: Implications for Exoplanetary Climate Evolution and Habitability. <i>Astrophysical Journal Letters</i> , 2018 , 859, L14	7.9	40
198	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
197	MAVEN GOES TO MARS. MAVEN Explores the Martian Upper Atmosphere. Introduction. <i>Science</i> , 2015 , 350, 643	33.3	38
196	The Twisted Configuration of the Martian Magnetotail: MAVEN Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 4559-4568	4.9	38
195	Simultaneous observations of atmospheric tides from combined in situ and remote observations at Mars from the MAVEN spacecraft. <i>Journal of Geophysical Research E: Planets</i> , 2016 , 121, 594-607	4.1	38
194	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
193	Magnetotail dynamics at Mars: Initial MAVEN observations. <i>Geophysical Research Letters</i> , 2015 , 42, 8828-8837	4.9	37
192	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	4.9	37
191	Retrieval of CO ₂ and N ₂ in the Martian thermosphere using dayglow observations by IUVS on MAVEN. <i>Geophysical Research Letters</i> , 2015 , 42, 9040-9049	4.9	37
190	New observations of molecular nitrogen in the Martian upper atmosphere by IUVS on MAVEN. <i>Geophysical Research Letters</i> , 2015 , 42, 9050-9056	4.9	37
189	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
188	Nonmigrating tides in the Martian atmosphere as observed by MAVEN IUVS. <i>Geophysical Research Letters</i> , 2015 , 42, 9057-9063	4.9	36
187	Altitude dependence of nightside Martian suprathermal electron depletions as revealed by MAVEN observations. <i>Geophysical Research Letters</i> , 2015 , 42, 8877-8884	4.9	35
186	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
185	Inventory of CO ₂ available for terraforming Mars. <i>Nature Astronomy</i> , 2018 , 2, 634-639	12.1	34
184	Impact of a paleomagnetic field on sputtering loss of Martian atmospheric argon and neon. <i>Journal of Geophysical Research</i> , 1997 , 102, 9183-9189		34
183	Nightside ionosphere of Mars: Composition, vertical structure, and variability. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4712-4725	2.6	33

182	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
181	Dust observations at orbital altitudes surrounding Mars. <i>Science</i> , 2015 , 350, aad0398	33.3	33
180	Mars heavy ion precipitating flux as measured by Mars Atmosphere and Volatile Evolution. <i>Geophysical Research Letters</i> , 2015 , 42, 9135-9141	4.9	33
179	Are the Viking Lander sites representative of the surface of Mars?. <i>Icarus</i> , 1986 , 66, 125-133	3.8	33
178	A comparison of the thermal and radar characteristics of Mars. <i>Icarus</i> , 1981 , 45, 25-38	3.8	33
177	Probing the Martian atmosphere with MAVEN/IUVS stellar occultations. <i>Geophysical Research Letters</i> , 2015 , 42, 9064-9070	4.9	32
176	Low-frequency waves in the Martian magnetosphere and their response to upstream solar wind driving conditions. <i>Geophysical Research Letters</i> , 2015 , 42, 8917-8924	4.9	31
175	Thermal inertia of crater-related wind streaks on Mars. <i>Journal of Geophysical Research</i> , 2001 , 106, 23909-23920	3.1	31
174	MAVEN observations of partially developed Kelvin-Helmholtz vortices at Mars. <i>Geophysical Research Letters</i> , 2016 , 43, 4763-4773	4.9	30
173	Comparison of the Martian thermospheric density and temperature from IUVS/MAVEN data and general circulation modeling. <i>Geophysical Research Letters</i> , 2016 , 43, 3095-3104	4.9	30
172	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
171	Ionopause-like density gradients in the Martian ionosphere: A first look with MAVEN. <i>Geophysical Research Letters</i> , 2015 , 42, 8885-8893	4.9	30
170	A comparison of 3-D model predictions of Mars' oxygen corona with early MAVEN IUVS observations. <i>Geophysical Research Letters</i> , 2015 , 42, 9015-9022	4.9	30
169	Martian magnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 6185-6209	2.6	29
168	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
167	Discovery of a proton aurora at Mars. <i>Nature Astronomy</i> , 2018 , 2, 802-807	12.1	29
166	Photoelectrons and solar ionizing radiation at Mars: Predictions versus MAVEN observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016 , 121, 8859-8870	2.6	29
165	Electric Mars: The first direct measurement of an upper limit for the Martian polar wind electric potential. <i>Geophysical Research Letters</i> , 2015 , 42, 9128-9134	4.9	28

164	Implications of MAVEN Mars near-wake measurements and models. <i>Geophysical Research Letters</i> , 2015 , 42, 9087-9094	4.9	28
163	High-resolution thermal inertia mapping of Mars: Sites of exobiological interest. <i>Journal of Geophysical Research</i> , 2001 , 106, 23887-23907		28
162	Unique, non-Earthlike, meteoritic ion behavior in upper atmosphere of Mars. <i>Geophysical Research Letters</i> , 2017 , 44, 3066-3072	4.9	27
161	MAVEN observations of tail current sheet flapping at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 4308-4324	2.6	27
160	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
159	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
158	Ionospheric plasma density variations observed at Mars by MAVEN/LPW. <i>Geophysical Research Letters</i> , 2015 , 42, 8862-8869	4.9	27
157	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
156	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, 11,285-11,307	2.6	26
155	Global Aurora on Mars During the September 2017 Space Weather Event. <i>Geophysical Research Letters</i> , 2018 , 45, 7391-7398	4.9	26
154	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
153	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
152	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
151	Electric and magnetic variations in the near-Mars environment. <i>Journal of Geophysical Research: Space Physics</i> , 2017 , 122, 8536-8559	2.6	25
150	Marsward and tailward ions in the near-Mars magnetotail: MAVEN observations. <i>Geophysical Research Letters</i> , 2015 , 42, 8925-8932	4.9	25
149	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
148	Plasma clouds and snowplows: Bulk plasma escape from Mars observed by MAVEN. <i>Geophysical Research Letters</i> , 2016 , 43, 1426-1434	4.9	24
147	Mars volatile evolution: Implications of the recent measurement of ¹⁷ O in water from the SNC meteorites. <i>Geophysical Research Letters</i> , 1993 , 20, 1591-1594	4.9	24

146	Mars atmospheric D/H: Consistent with polar volatile theory?. <i>Journal of Geophysical Research</i> , 1990 , 95, 1475		24
145	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
144	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
143	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
142	The Propitious Role of Solar Energetic Particles in the Origin of Life. <i>Astrophysical Journal</i> , 2018 , 853, 10	4-7	22
141	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
140	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
139	Model insights into energetic photoelectrons measured at Mars by MAVEN. <i>Geophysical Research Letters</i> , 2015 , 42, 8894-8900	4-9	22
138	Variability of Martian Turbopause Altitudes. <i>Journal of Geophysical Research E: Planets</i> , 2018 , 123, 2939-2957	4-9	22
137	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
136	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
135	Comparison of model predictions for the composition of the ionosphere of Mars to MAVEN NGIMS data. <i>Geophysical Research Letters</i> , 2015 , 42, 8966-8976	4-9	21
134	Neutral density response to solar flares at Mars. <i>Geophysical Research Letters</i> , 2015 , 42, 8986-8992	4-9	21
133	Science from a Mars Airplane: The Aerial Regional-scale Environmental Survey (ARES) of Mars 2003 ,		21
132	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
131	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
130	Magnetic Reconnection on Dayside Crustal Magnetic Fields at Mars: MAVEN Observations. <i>Geophysical Research Letters</i> , 2018 , 45, 4550-4558	4-9	20
129	Time-dispersed ion signatures observed in the Martian magnetosphere by MAVEN. <i>Geophysical Research Letters</i> , 2015 , 42, 8910-8916	4-9	20

128	The CO ₂ inventory on Mars. <i>Planetary and Space Science</i> , 2019 , 175, 52-59	2	19
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