J S Halekas

List of Publications by Citations

325 papers	8,843 citations	49 h-index	76 g-index
377 ext. papers	10,745 ext. citations	4.5 avg, IF	5.94 L-index

#	Paper	IF	Citations
325	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. *Space Science Reviews*, **2015**, 195, 3-48	7.5	405
324	Solar Wind Electrons Alphas and Protons (SWEAP) Investigation: Design of the Solar Wind and Coronal Plasma Instrument Suite for Solar Probe Plus. *Space Science Reviews*, **2016**, 204, 131-186	7.5	257
323	The Solar Wind Ion Analyzer for MAVEN. *Space Science Reviews*, **2015**, 195, 125-151	7.5	210
322	The Space Physics Environment Data Analysis System (SPEDAS). *Space Science Reviews*, **2019**, 215, 9	7.5	205
321	Alfvẽic velocity spikes and rotational flows in the near-Sun solar wind. *Nature*, **2019**, 576, 228-231	50.4	172
320	Initial mapping and interpretation of lunar crustal magnetic anomalies using Lunar Prospector magnetometer data. *Journal of Geophysical Research*, **2001**, 106, 27825-27839		147
319	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
318	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. *Science*, **2015**, 350, aad0210	33.3	131
317	Electron pitch angle distributions as indicators of magnetic field topology near Mars. *Journal of Geophysical Research*, **2007**, 112, n/a-n/a		129
316	Global mapping of lunar crustal magnetic fields by Lunar Prospector. *Icarus*, **2008**, 194, 401-409	3.8	128
315	Structure, dynamics, and seasonal variability of the Mars-solar wind interaction: MAVEN Solar Wind Ion Analyzer in-flight performance and science results. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 547-578	2.6	127
314	On the origin of aurorae on Mars. *Geophysical Research Letters*, **2006**, 33, n/a-n/a	4.9	118
313	Electrons and magnetic fields in the lunar plasma wake. *Journal of Geophysical Research*, **2005**, 110,		117
312	Mapping of crustal magnetic anomalies on the lunar near side by the Lunar Prospector electron reflectometer. *Journal of Geophysical Research*, **2001**, 106, 27841-27852		109
311	Variability of the altitude of the Martian sheath. *Geophysical Research Letters*, **2005**, 32, n/a-n/a	4.9	103
310	Strong plume fluxes at Mars observed by MAVEN: An important planetary ion escape channel. *Geophysical Research Letters*, **2015**, 42, 8942-8950	4.9	100
309	Lunar Prospector observations of the electrostatic potential of the lunar surface and its response to incident currents. *Journal of Geophysical Research*, **2008**, 113, n/a-n/a		96

308	The spatial distribution of planetary ion fluxes near Mars observed by MAVEN. *Geophysical Research Letters*, **2015**, 42, 9142-9148	4.9	95
307	A comparison of global models for the solar wind interaction with Mars. *Icarus*, **2010**, 206, 139-151	3.8	92
306	New views of the lunar plasma environment. *Planetary and Space Science*, **2011**, 59, 1681-1694	2	89
305	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
304	Hydrogen escape from Mars enhanced by deep convection in dust storms. *Nature Astronomy*, **2018**, 2, 126-132	12.1	79
303	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. *Science*, **2015**, 350, aad0459	33.3	77
302	Evidence for collisionless magnetic reconnection at Mars. *Geophysical Research Letters*, **2008**, 35,	4.9	77
301	Evidence for negative charging of the lunar surface in shadow. *Geophysical Research Letters*, **2002**, 29, 77-1-77-4	4.9	77
300	First results of the MAVEN magnetic field investigation. *Geophysical Research Letters*, **2015**, 42, 8819-8827	4.9	75
299	Photochemical escape of oxygen from Mars: First results from MAVEN in situ data. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 3815-3836	2.6	74
298	Complex electric fields near the lunar terminator: The near-surface wake and accelerated dust. *Geophysical Research Letters*, **2007**, 34,	4.9	70
297	The magnetic field draping direction at Mars from April 1999 through August 2004. *Icarus*, **2006**, 182, 464-473	3.8	67
296	MAVEN observations of solar wind hydrogen deposition in the atmosphere of Mars. *Geophysical Research Letters*, **2015**, 42, 8901-8909	4.9	63
295	Time history of the Martian dynamo from crater magnetic field analysis. *Journal of Geophysical Research E: Planets*, **2013**, 118, 1488-1511	4.1	60
294	Seasonal variability of the hydrogen exosphere of Mars. *Journal of Geophysical Research E: Planets*, **2017**, 122, 901-911	4.1	58
293	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
292	Extreme lunar surface charging during solar energetic particle events. *Geophysical Research Letters*, **2007**, 34,	4.9	57
291	MAVEN observations of the solar cycle 24 space weather conditions at Mars. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 2768-2794	2.6	55

290	Electrons in the Young Solar Wind: First Results from the Parker Solar Probe. *Astrophysical Journal, Supplement Series*, **2020**, 246, 22	8	55
289	Variability of helium, neon, and argon in the lunar exosphere as observed by the LADEE NMS instrument. *Geophysical Research Letters*, **2015**, 42, 3723-3729	4.9	55
288	Large negative lunar surface potentials in sunlight and shadow. *Geophysical Research Letters*, **2005**, 32,	4.9	54
287	The Solar Probe ANalyzers–Electrons on the Parker Solar Probe. *Astrophysical Journal, Supplement Series*, **2020**, 246, 74	8	53
286	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
285	Dependence of lunar surface charging on solar wind plasma conditions and solar irradiation. *Planetary and Space Science*, **2014**, 90, 10-27	2	52
284	Anticipated electrical environment within permanently shadowed lunar craters. *Journal of Geophysical Research*, **2010**, 115,		52
283	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
282	Magnetic fields of lunar multi-ring impact basins. *Meteoritics and Planetary Science*, **2003**, 38, 565-578	2.8	51
281	Solar wind access to lunar polar craters: Feedback between surface charging and plasma expansion. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	50
280	Localized ionization patches in the nighttime ionosphere of Mars and their electrodynamic consequences. *Icarus*, **2010**, 206, 112-119	3.8	50
279	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
278	On the role of dust in the lunar ionosphere. *Planetary and Space Science*, **2011**, 59, 1659-1664	2	49
277	Origins of the Martian aurora observed by Spectroscopy for Investigation of Characteristics of the Atmosphere of Mars (SPICAM) on board Mars Express. *Journal of Geophysical Research*, **2006**, 111,		49
276	Current sheets at low altitudes in the Martian magnetotail. *Geophysical Research Letters*, **2006**, 33,	4.9	47
275	MHD model results of solar wind interaction with Mars and comparison with MAVEN plasma observations. *Geophysical Research Letters*, **2015**, 42, 9113-9120	4.9	46
274	MAVEN insights into oxygen pickup ions at Mars. *Geophysical Research Letters*, **2015**, 42, 8870-8876	4.9	46
273	MAVEN measured oxygen and hydrogen pickup ions: Probing the Martian exosphere and neutral escape. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 3689-3706	2.6	45

272	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
271	Magnetic reconnection in the near-Mars magnetotail: MAVEN observations. *Geophysical Research Letters*, **2015**, 42, 8838-8845	4.9	45
270	Lunar Prospector measurements of secondary electron emission from lunar regolith. *Planetary and Space Science*, **2009**, 57, 78-82	2	45
269	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
268	Model calculations of electron precipitation induced ionization patches on the nightside of Mars. *Geophysical Research Letters*, **2007**, 34,	4.9	42
267	Whistler waves observed near lunar crustal magnetic sources. *Geophysical Research Letters*, **2006**, 33,	4.9	42
266	Negative potentials above the day-side lunar surface in the terrestrial plasma sheet: Evidence of non-monotonic potentials. *Geophysical Research Letters*, **2011**, 38, n/a-n/a	4.9	41
265	First Results from ARTEMIS, a New Two-Spacecraft Lunar Mission: Counter-Streaming Plasma Populations in the Lunar Wake. *Space Science Reviews*, **2011**, 165, 93-107	7.5	41
264	First lunar wake passage of ARTEMIS: Discrimination of wake effects and solar wind fluctuations by 3D hybrid simulations. *Planetary and Space Science*, **2011**, 59, 661-671	2	41
263	ARTEMIS Science Objectives. *Space Science Reviews*, **2011**, 165, 59-91	7.5	40
262	Study of impact demagnetization at Mars using Monte Carlo modeling and multiple altitude data. *Journal of Geophysical Research*, **2010**, 115,		40
261	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
260	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
259	Lunar surface charging during solar energetic particle events: Measurement and prediction. *Journal of Geophysical Research*, **2009**, 114, n/a-n/a		39
258	Correlation of a strong lunar magnetic anomaly with a high-albedo region of the Descartes mountains. *Geophysical Research Letters*, **2003**, 30,	4.9	39
257	The Twisted Configuration of the Martian Magnetotail: MAVEN Observations. *Geophysical Research Letters*, **2018**, 45, 4559-4568	4.9	38
256	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
255	Magnetotail dynamics at Mars: Initial MAVEN observations. *Geophysical Research Letters*, **2015**, 42, 8828-8837	4.9	37

254	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
253	Altitude dependence of nightside Martian suprathermal electron depletions as revealed by MAVEN observations. *Geophysical Research Letters*, **2015**, 42, 8877-8884	4.9	35
252	A statistical study of flux ropes in the Martian magnetosphere. *Planetary and Space Science*, **2011**, 59, 1498-1505	2	35
251	Loss of solar wind plasma neutrality and affect on surface potentials near the lunar terminator and shadowed polar regions. *Geophysical Research Letters*, **2008**, 35,	4.9	35
250	On the occurrence of magnetic enhancements caused by solar wind interaction with lunar crustal fields. *Geophysical Research Letters*, **2006**, 33,	4.9	35
249	Lunar pickup ions observed by ARTEMIS: Spatial and temporal distribution and constraints on species and source locations. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		34
248	Mars heavy ion precipitating flux as measured by Mars Atmosphere and Volatile EvolutioN. *Geophysical Research Letters*, **2015**, 42, 9135-9141	4.9	33
247	ARTEMIS observations of lunar pick-up ions in the terrestrial magnetotail lobes. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	33
246	Solar wind interaction with lunar crustal magnetic anomalies. *Advances in Space Research*, **2008**, 41, 1319-1324	2.4	33
245	Relating Streamer Flows to Density and Magnetic Structures at the Parker Solar Probe. *Astrophysical Journal, Supplement Series*, **2020**, 246, 37	8	32
244	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
243	Low-frequency waves in the Martian magnetosphere and their response to upstream solar wind driving conditions. *Geophysical Research Letters*, **2015**, 42, 8917-8924	4.9	31
242	MAVEN observations of partially developed Kelvin-Helmholtz vortices at Mars. *Geophysical Research Letters*, **2016**, 43, 4763-4773	4.9	30
241	ARTEMIS observations of extreme diamagnetic fields in the lunar wake. *Geophysical Research Letters*, **2014**, 41, 3766-3773	4.9	30
240	Variations of the Martian plasma environment during the ICME passage on 8 March 2015: A time-dependent MHD study. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 1714-1730	2.6	30
239	Ionopause-like density gradients in the Martian ionosphere: A first look with MAVEN. *Geophysical Research Letters*, **2015**, 42, 8885-8893	4.9	30
238	Martian magnetic storms. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 6185-6209	2.6	29
237	Discovery of a proton aurora at Mars. *Nature Astronomy*, **2018**, 2, 802-807	12.1	29

236	Detections of lunar exospheric ions by the LADEE neutral mass spectrometer. *Geophysical Research Letters*, **2015**, 42, 5162-5169	4.9	29
235	Demagnetization signatures of lunar impact craters. *Geophysical Research Letters*, **2002**, 29, 23-1	4.9	29
234	Implications of MAVEN Mars near-wake measurements and models. *Geophysical Research Letters*, **2015**, 42, 9087-9094	4.9	28
233	Lunar precursor effects in the solar wind and terrestrial magnetosphere. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		28
232	The effects of reflected protons on the plasma environment of the moon for parallel interplanetary magnetic fields. *Geophysical Research Letters*, **2013**, 40, 4544-4548	4.9	28
231	MAVEN observations of tail current sheet flapping at Mars. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 4308-4324	2.6	27
230	Seasonal Variability of Neutral Escape from Mars as Derived From MAVEN Pickup Ion Observations. *Journal of Geophysical Research E: Planets*, **2018**, 123, 1192-1202	4.1	27
229	Using ARTEMIS pickup ion observations to place constraints on the lunar atmosphere. *Journal of Geophysical Research E: Planets*, **2013**, 118, 81-88	4.1	27
228	Particle-in-cell simulations of the solar wind interaction with lunar crustal magnetic anomalies: Magnetic cusp regions. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		27
227	Concerning the dissipation of electrically charged objects in the shadowed lunar polar regions. *Geophysical Research Letters*, **2008**, 35,	4.9	27
226	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
225	Solar wind electron interaction with the dayside lunar surface and crustal magnetic fields: Evidence for precursor effects. *Earth, Planets and Space*, **2012**, 64, 73-82	2.9	26
224	Anticorrelation between the Bulk Speed and the Electron Temperature in the Pristine Solar Wind: First Results from the Parker Solar Probe and Comparison with Helios. *Astrophysical Journal, Supplement Series*, **2020**, 246, 62	8	26
223	Solar wind interaction with comet 67P: Impacts of corotating interaction regions. *Journal of Geophysical Research: Space Physics*, **2016**, 121, 949-965	2.6	26
222	Global Aurora on Mars During the September 2017 Space Weather Event. *Geophysical Research Letters*, **2018**, 45, 7391-7398	4.9	26
221	Survey of magnetic reconnection signatures in the Martian magnetotail with MAVEN. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 5114-5131	2.6	25
220	Ionizing Electrons on the Martian Nightside: Structure and Variability. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 4349-4363	2.6	25
219	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

218	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
217	Electric and magnetic variations in the near-Mars environment. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 8536-8559	2.6	25
216	Marsward and tailward ions in the near-Mars magnetotail: MAVEN observations. *Geophysical Research Letters*, **2015**, 42, 8925-8932	4.9	25
215	Impact demagnetization of the Martian crust: Current knowledge and future directions. *Earth and Planetary Science Letters*, **2011**, 305, 257-269	5.3	25
214	MAVEN Observations of Solar Wind-Driven Magnetosonic Waves Heating the Martian Dayside Ionosphere. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 4129-4149	2.6	25
213	The Heliospheric Current Sheet and Plasma Sheet during Parker Solar Probe's First Orbit. *Astrophysical Journal Letters*, **2020**, 894, L19	7.9	24
212	Plasma clouds and snowplows: Bulk plasma escape from Mars observed by MAVEN. *Geophysical Research Letters*, **2016**, 43, 1426-1434	4.9	24
211	Distribution and variability of accelerated electrons at Mars. *Advances in Space Research*, **2008**, 41, 1347-1352	1.4	24
210	The Three-Dimensional Bow Shock of Mars as Observed by MAVEN. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 4542-4555	2.6	24
209	The effects of solar wind velocity distributions on the refilling of the lunar wake: ARTEMIS observations and comparisons to one-dimensional theory. *Journal of Geophysical Research: Space Physics*, **2014**, 119, 5133-5149	2.6	23
208	Evidence for small-scale collisionless shocks at the Moon from ARTEMIS. *Geophysical Research Letters*, **2014**, 41, 7436-7443	4.9	23
207	Characterization of turbulence in the Mars plasma environment with MAVEN observations. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 656-674	2.6	22
206	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
205	The Martian Photoelectron Boundary as Seen by MAVEN. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 10,472-10,485	2.6	21
204	Statistical characterization of the foremoon particle and wave morphology: ARTEMIS observations. *Journal of Geophysical Research: Space Physics*, **2015**, 120, 4907-4921	2.6	21
203	Solar-Storm/Lunar Atmosphere Model (SSLAM): An overview of the effort and description of the driving storm environment. *Journal of Geophysical Research*, **2012**, 117,		21
202	Kinetic instabilities in the lunar wake: ARTEMIS observations. *Journal of Geophysical Research*, **2012**, 117, n/a-n/a		21
201	Formation Timescales of Amorphous Rims on Lunar Grains Derived From ARTEMIS Observations. *Journal of Geophysical Research E: Planets*, **2018**, 123, 37-46	4.1	21

200	Measurements of Forbush decreases at Mars: both by MSL on ground and by MAVEN in orbit. *Astronomy and Astrophysics*, **2018**, 611, A79	5.1	21
199	The Impact and Solar Wind Proxy of the 2017 September ICME Event at Mars. *Geophysical Research Letters*, **2018**, 45, 7248-7256	4.9	21
198	Magnetic Reconnection on Dayside Crustal Magnetic Fields at Mars: MAVEN Observations. *Geophysical Research Letters*, **2018**, 45, 4550-4558	4.9	20
197	Time-dispersed ion signatures observed in the Martian magnetosphere by MAVEN. *Geophysical Research Letters*, **2015**, 42, 8910-8916	4.9	20
196	A comparison of ARTEMIS observations and particle-in-cell modeling of the lunar photoelectron sheath in the terrestrial magnetotail. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	20
195	How strong are lunar crustal magnetic fields at the surface?: Considerations from a reexamination of the electron reflectometry technique. *Journal of Geophysical Research*, **2010**, 115,		20
194	The Influence of Solar Wind Pressure on Martian Crustal Magnetic Field Topology. *Geophysical Research Letters*, **2019**, 46, 2347-2354	4.9	19
193	Autocorrelation Study of Solar Wind Plasma and IMF Properties as Measured by the MAVEN Spacecraft. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 2493-2512	2.6	19
192	ARTEMIS observations of terrestrial ionospheric molecular ion outflow at the Moon. *Geophysical Research Letters*, **2016**, 43, 6749-6758	4.9	19
191	Model-based constraints on the lunar exosphere derived from ARTEMIS pickup ion observations in the terrestrial magnetotail. *Journal of Geophysical Research E: Planets*, **2013**, 118, 1135-1147	4.1	19
190	On the Origins of Mars' Exospheric Nonthermal Oxygen Component as Observed by MAVEN and Modeled by HELIOSARES. *Journal of Geophysical Research E: Planets*, **2017**, 122, 2401-2428	4.1	19
189	A chain of magnetic flux ropes in the magnetotail of Mars. *Geophysical Research Letters*, **2012**, 39, n/a-n/a	4.9	19
188	ARTEMIS observations of lunar dayside plasma in the terrestrial magnetotail lobe. *Journal of Geophysical Research: Space Physics*, **2013**, 118, 3042-3054	2.6	19
187	The lunar photoelectron sheath: A change in trapping efficiency during a solar storm. *Journal of Geophysical Research E: Planets*, **2013**, 118, 1114-1122	4.1	19
186	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
185	Surface charging and electrostatic dust acceleration at the nucleus of comet 67P during periods of low activity. *Planetary and Space Science*, **2015**, 119, 24-35	2	18
184	Large-amplitude compressive □sawtooth□ magnetic field oscillations in the Martian magnetosphere. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		18
183	On wind-driven electrojets at magnetic cusps in the nightside ionosphere of Mars. *Earth, Planets and Space*, **2012**, 64, 93-103	2.9	18

182	Inferring the scale height of the lunar nightside double layer. *Geophysical Research Letters*, **2003**, 30,	4.9	18
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180	On Mars's Atmospheric Sputtering After MAVEN's First Martian Year of Measurements. *Geophysical Research Letters*, **2018**, 45, 4685-4691	4.9	17
179	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
178	Anisotropic solar wind sputtering of the lunar surface induced by crustal magnetic anomalies. *Geophysical Research Letters*, **2014**, 41, 4865-4872	4.9	17
177	First remote measurements of lunar surface charging from ARTEMIS: Evidence for nonmonotonic sheath potentials above the dayside surface. *Journal of Geophysical Research*, **2011**, 116, n/a-n/a		17
176	Solar Wind Induced Waves in the Skies of Mars: Ionospheric Compression, Energization, and Escape Resulting From the Impact of Ultralow Frequency Magnetosonic Waves Generated Upstream of the Martian Bow Shock. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 7241-7256	2.6	17
175	Plasma Waves near the Electron Cyclotron Frequency in the Near-Sun Solar Wind. *Astrophysical Journal, Supplement Series*, **2020**, 246, 21	8	16
174	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
173	The global current systems of the Martian induced magnetosphere. *Nature Astronomy*, **2020**, 4, 979-985	12.1	16
172	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
171	Mars's magnetotail: Nature's current sheet laboratory. *Journal of Geophysical Research: Space Physics*, **2017**, 122, 5404-5417	2.6	15
170	MAVEN observations of energy-time dispersed electron signatures in Martian crustal magnetic fields. *Geophysical Research Letters*, **2016**, 43, 939-944	4.9	15
169	Understanding temporal and spatial variability of the lunar helium atmosphere using simultaneous observations from LRO, LADEE, and ARTEMIS. *Icarus*, **2016**, 273, 45-52	3.8	15
168	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
167	Discharging of Roving Objects in the Lunar Polar Regions. *Journal of Spacecraft and Rockets*, **2011**, 48, 700-704	1.5	15
166	Global distribution, structure, and solar wind control of low altitude current sheets at Mars. *Icarus*, **2010**, 206, 64-73	3.8	15
165	Localized Ionization Hypothesis for Transient Ionospheric Layers. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 4870-4880	2.6	14

164	On the origins of magnetic flux ropes in near-Mars magnetotail current sheets. *Geophysical Research Letters*, **2017**, 44, 7653-7662	4.9	14
163	3D PIC SIMULATIONS OF COLLISIONLESS SHOCKS AT LUNAR MAGNETIC ANOMALIES AND THEIR ROLE IN FORMING LUNAR SWIRLS. *Astrophysical Journal*, **2016**, 830, 146	4.7	14
162	Unusual Plasma and Particle Signatures at Mars and STEREO-A Related to CME□CME Interaction. *Astrophysical Journal*, **2019**, 880, 18	4.7	14
161	The self-sputtered contribution to the lunar exosphere. *Journal of Geophysical Research E: Planets*, **2013**, 118, 1934-1944	4.1	14
160	A hot flow anomaly at Mars. *Geophysical Research Letters*, **2015**, 42, 9121-9127	4.9	14
159	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
158	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
157	Structure and Variability of the Martian Ion Composition Boundary Layer. *Journal of Geophysical Research: Space Physics*, **2018**, 123, 8439-8458	2.6	14
156	Cold Dense Ion Outflow Observed in the Martian-Induced Magnetotail by MAVEN. *Geophysical Research Letters*, **2018**, 45, 5283-5289	4.9	14
155	ARTEMIS observations of the solar wind proton scattering function from lunar crustal magnetic anomalies. *Journal of Geophysical Research E: Planets*, **2017**, 122, 771-783	4.1	13
154	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
153	MAVEN and MEX Multi-instrument Study of the Dayside of the Martian Induced Magnetospheric Structure Revealed by Pressure Analyses. *Journal of Geophysical Research: Space Physics*, **2019**, 124, 8564-8589	2.6	13
152	Thin Current Sheets of Sub-ion Scales observed by MAVEN in the Martian Magnetotail. *Geophysical Research Letters*, **2019**, 46, 6214-6222	4.9	13
151	Constraining Ion-Scale Heating and Spectral Energy Transfer in Observations of Plasma Turbulence. *Physical Review Letters*, **2020**, 125, 025102	7.4	13
150	Solar Wind Deflection by Mass Loading in the Martian Magnetosheath Based on MAVEN Observations. *Geophysical Research Letters*, **2018**, 45, 2574-2579	4.9	13
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