

# Ali Rahmati

## List of Publications by Year in descending order

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Version: 2024-02-01

35  
papers

1,507  
citations

361045

20  
h-index

360668

35  
g-index

36  
all docs

36  
docs citations

36  
times ranked

1345  
citing authors

#	ARTICLE	IF	CITATIONS
1	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.	1.1	216
2	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015, 350, aad0210.	6.0	166
3	The Solar Probe ANalyzers' Electrons on the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 74.	3.0	114
4	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.	0.8	106
5	<i>Parker Solar Probe</i> Enters the Magnetically Dominated Solar Corona. <i>Physical Review Letters</i> , 2021, 127, 255101.	2.9	104
6	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015, 350, aad0459.	6.0	90
7	Parker Solar Probe Observations of Proton Beams Simultaneous with Ion-scale Waves. <i>Astrophysical Journal, Supplement Series</i> , 2020, 248, 5.	3.0	62
8	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.	0.8	55
9	MAVEN insights into oxygen pickup ions at Mars. <i>Geophysical Research Letters</i> , 2015, 42, 8870-8876.	1.5	53
10	Suprathermal electrons near the nucleus of comet 67P/Churyumovâ€Gerasimenko at 3â€%AU: Model comparisons with Rosetta data. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5815-5836.	0.8	49
11	The Rosetta Ion and Electron Sensor (IES) measurement of the development of pickup ions from comet 67P/Churyumovâ€Gerasimenko. <i>Geophysical Research Letters</i> , 2015, 42, 3093-3099.	1.5	45
12	Global Aurora on Mars During the September 2017 Space Weather Event. <i>Geophysical Research Letters</i> , 2018, 45, 7391-7398.	1.5	44
13	Hot oxygen escape from Mars: Simple scaling with solar EUV irradiance. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1102-1116.	0.8	40
14	Electron energetics in the Martian dayside ionosphere: Model comparisons with MAVEN data. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7049-7066.	0.8	38
15	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.	1.5	38
16	Turbulence in the Sub-AlfvÃ©nic Solar Wind. <i>Astrophysical Journal Letters</i> , 2022, 926, L16.	3.0	36
17	Model insights into energetic photoelectrons measured at Mars by MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 8894-8900.	1.5	28
18	Pickup ion measurements by MAVEN: A diagnostic of photochemical oxygen escape from Mars. <i>Geophysical Research Letters</i> , 2014, 41, 4812-4818.	1.5	23

#	ARTICLE	IF	CITATIONS
19	Prevalence of magnetic reconnection in the near-Sun heliospheric current sheet. <i>Astronomy and Astrophysics</i> , 2021, 650, A13.	2.1	23
20	Inferred Linear Stability of Parker Solar Probe Observations Using One- and Two-component Proton Distributions. <i>Astrophysical Journal</i> , 2021, 909, 7.	1.6	22
21	The precipitation of keV energetic oxygen ions at Mars and their effects during the comet Siding Spring approach. <i>Geophysical Research Letters</i> , 2014, 41, 4844-4850.	1.5	17
22	Strong Perpendicular Velocity-space Diffusion in Proton Beams Observed by Parker Solar Probe. <i>Astrophysical Journal</i> , 2022, 924, 112.	1.6	16
23	Parker Solar Probe Observations of Solar Wind Energetic Proton Beams Produced by Magnetic Reconnection in the Near-Sun Heliospheric Current Sheet. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	15
24	The September 2017 SEP Event in Context With the Current Solar Cycle: Mars Express ASPERA-3/IMA and MAVEN/SEP Observations. <i>Geophysical Research Letters</i> , 2018, 45, 7306-7311.	1.5	14
25	Magnetic Reconnection in the Ionosphere of Mars: The Role of Collisions. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028036.	0.8	14
26	Phobos Surface Sputtering as Inferred From MAVEN Ion Observations. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3385-3401.	1.5	12
27	Energetic Particle Showers Over Mars from Comet C/2013 A1 Siding Spring. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8778-8796.	0.8	11
28	Modeling of Diffuse Auroral Emission at Mars: Contribution of MeV Protons. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	10
29	Pressure Gradients Driving Ion Transport in the Topside Martian Atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 6117-6126.	0.8	9
30	Implantation of Martian atmospheric ions within the regolith of Phobos. <i>Nature Geoscience</i> , 2021, 14, 61-66.	5.4	9
31	MAVEN SEP Observations of Scorpius X-1 X-rays at Mars: A Midatmosphere Occultation Analysis Technique. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL088927.	1.5	8
32	Cometary sputtering of the Martian atmosphere during the Siding Spring encounter. <i>Icarus</i> , 2016, 272, 301-308.	1.1	6
33	Density and Velocity Fluctuations of Alpha Particles in Magnetic Switchbacks. <i>Astrophysical Journal</i> , 2022, 933, 43.	1.6	6
34	Test Particle Model Predictions of SEP Electron Transport and Precipitation at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029132.	0.8	4
35	Suprathermal Ion Energy Spectra and Anisotropies near the Heliospheric Current Sheet Crossing Observed by the Parker Solar Probe during Encounter 7. <i>Astrophysical Journal</i> , 2022, 927, 62.	1.6	3