

# M M J Crismani

## List of Publications by Year in descending order

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39  
papers

1,919  
citations

218381

26  
h-index

301761

39  
g-index

45  
all docs

45  
docs citations

45  
times ranked

1785  
citing authors

#	ARTICLE	IF	CITATIONS
1	Explaining NOMAD D/H Observations by Cloud-Induced Fractionation of Water Vapor on Mars. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	11
2	Comprehensive investigation of Mars methane and organics with ExoMars/NOMAD. <i>Icarus</i> , 2021, 357, 114266.	1.1	27
3	Water heavily fractionated as it ascends on Mars as revealed by ExoMars/NOMAD. <i>Science Advances</i> , 2021, 7, .	4.7	31
4	Probing the Atmospheric Cl Isotopic Ratio on Mars: Implications for Planetary Evolution and Atmospheric Chemistry. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092650.	1.5	7
5	Annual Appearance of Hydrogen Chloride on Mars and a Striking Similarity With the Water Vapor Vertical Distribution Observed by TGO/NOMAD. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL092506.	1.5	15
6	Martian water loss to space enhanced by regional dust storms. <i>Nature Astronomy</i> , 2021, 5, 1036-1042.	4.2	40
7	A Global and Seasonal Perspective of Martian Water Vapor From ExoMars/NOMAD. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, .	1.5	8
8	First Detection and Thermal Characterization of Terminator CO <sub>2</sub> Ice Clouds With ExoMars/NOMAD. <i>Geophysical Research Letters</i> , 2021, 48, .	1.5	12
9	Explanation for the Increase in High-Altitude Water on Mars Observed by NOMAD During the 2018 Global Dust Storm. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL084354.	1.5	62
10	Strong Variability of Martian Water Ice Clouds During Dust Storms Revealed From ExoMars Trace Gas Orbiter/NOMAD. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006250.	1.5	39
11	Ly $\alpha$ Observations of Comet C/2013 A1 (Siding Spring) Using MAVEN IUVS Echelle. <i>Astronomical Journal</i> , 2020, 160, 10.	1.9	3
12	Localized Ionization Hypothesis for Transient Ionospheric Layers. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4870-4880.	0.8	19
13	Meteoritic Metal Chemistry in the Martian Atmosphere. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 695-707.	1.5	28
14	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.	1.5	42
15	The Impact of Comet Siding Spring's Meteors on the Martian Atmosphere and Ionosphere. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2613-2627.	1.5	14
16	Global Aurora on Mars During the September 2017 Space Weather Event. <i>Geophysical Research Letters</i> , 2018, 45, 7391-7398.	1.5	44
17	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
18	Discovery of a proton aurora at Mars. <i>Nature Astronomy</i> , 2018, 2, 802-807.	4.2	50

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19	Significant Space Weather Impact on the Escape of Hydrogen From Mars. <i>Geophysical Research Letters</i> , 2018, 45, 8844-8852.	1.5	29
20	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.	1.5	24
21	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.	0.8	64
22	Martian mesospheric cloud observations by IUVS on MAVEN: Thermal tides coupled to the upper atmosphere. <i>Geophysical Research Letters</i> , 2017, 44, 4709-4715.	1.5	23
23	Detection of a persistent meteoric metal layer in the Martian atmosphere. <i>Nature Geoscience</i> , 2017, 10, 401-404.	5.4	52
24	Nitric oxide nightglow and Martian mesospheric circulation from MAVEN/IUVS observations and LMDa€MCM predictions. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 5782-5797.	0.8	36
25	THEO concept mission: Testing the Habitability of Enceladusâ€™s Ocean. <i>Advances in Space Research</i> , 2016, 58, 1117-1137.	1.2	13
26	Ultraviolet observations of the hydrogen coma of comet C/2013 A1 (Siding Spring) by MAVEN/IUVS. <i>Geophysical Research Letters</i> , 2015, 42, 8803-8809.	1.5	11
27	MAVEN IUVS observations of the aftermath of the Comet Siding Spring meteor shower on Mars. <i>Geophysical Research Letters</i> , 2015, 42, 4755-4761.	1.5	56
28	Nonmigrating tides in the Martian atmosphere as observed by MAVEN IUVS. <i>Geophysical Research Letters</i> , 2015, 42, 9057-9063.	1.5	43
29	Retrieval of CO <sub>2</sub> and N <sub>2</sub> in the Martian thermosphere using dayglow observations by IUVS on MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9040-9049.	1.5	43
30	Study of the Martian cold oxygen corona from the Oâ€™l 130.4â€™nm by IUVS/MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9031-9039.	1.5	21
31	The structure and variability of Mars upper atmosphere as seen in MAVEN/IUVS dayglow observations. <i>Geophysical Research Letters</i> , 2015, 42, 9023-9030.	1.5	95
32	Threeâ€™dimensional structure in the Mars H corona revealed by IUVS on MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9001-9008.	1.5	67
33	MAVEN IUVS observation of the hot oxygen corona at Mars. <i>Geophysical Research Letters</i> , 2015, 42, 9009-9014.	1.5	77
34	New observations of molecular nitrogen in the Martian upper atmosphere by IUVS on MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9050-9056.	1.5	41
35	Probing the Martian atmosphere with MAVEN/IUVS stellar occultations. <i>Geophysical Research Letters</i> , 2015, 42, 9064-9070.	1.5	42
36	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015, 350, aad0210.	6.0	166

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37	Discovery of diffuse aurora on Mars. Science, 2015, 350, aad0313.	6.0	98
38	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. Science, 2015, 350, aad0459.	6.0	90
39	ON THE ANOMALOUS RADII OF THE TRANSITING EXTRASOLAR PLANETS. Astrophysical Journal Letters, 2011, 729, L7.	3.0	159