

M K Elrod

List of Publications by Year in descending order

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Version: 2024-02-01

50
papers

2,255
citations

218381

26
h-index

214527

47
g-index

52
all docs

52
docs citations

52
times ranked

1442
citing authors

#	ARTICLE	IF	CITATIONS
1	Martian nonmigrating atmospheric tides in the thermosphere and ionosphere at solar minimum. <i>Icarus</i> , 2023, 393, 114767.	1.1	2
2	Neutral Composition and Horizontal Variations of the Martian Upper Atmosphere From MAVEN NGIMS. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, .	1.5	4
3	Influence of Magnetic Fields on Precipitating Solar Wind Hydrogen at Mars. <i>Geophysical Research Letters</i> , 2022, 49, .	1.5	4
4	Precipitating Solar Wind Hydrogen as Observed by the MAVEN Spacecraft: Distribution as a Function of Column Density, Altitude, and Solar Zenith Angle. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006725.	1.5	4
5	Latitudinal and Seasonal Asymmetries of the Helium Bulge in the Martian Upper Atmosphere. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006976.	1.5	8
6	In Situ Measurements of Thermal Ion Temperature in the Martian Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029531.	0.8	17
7	Ionization Efficiency in the Dayside Ionosphere of Mars: Structure and Variability. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006923.	1.5	5
8	Structural and Compositional Changes in the Upper Atmosphere Related to the PEDEâ€2018 Dust Event on Mars as Observed by MAVEN NGIMS. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL084378.	1.5	38
9	Effects of the 10 September 2017 Solar Flare on the Density and Composition of the Thermosphere of Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028518.	0.8	5
10	Hydrogen escape from Mars is driven by seasonal and dust storm transport of water. <i>Science</i> , 2020, 370, 824-831.	6.0	66
11	First Detection of Kilometerâ€Scale Density Irregularities in the Martian Ionosphere. <i>Geophysical Research Letters</i> , 2020, 47, e2020GL090906.	1.5	7
12	Tidal Wave-Driven Variability in the Mars Ionosphere-Thermosphere System. <i>Atmosphere</i> , 2020, 11, 521.	1.0	14
13	Atmospheric Escape Processes and Planetary Atmospheric Evolution. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027639.	0.8	58
14	Mars Upper Atmospheric Responses to the 10 September 2017 Solar Flare: A Global, Timeâ€Dependent Simulation. <i>Geophysical Research Letters</i> , 2019, 46, 9334-9343.	1.5	19
15	Ionâ€Neutral Coupling in the Upper Atmosphere of Mars: A Dominant Driver of Topside Ionospheric Structure. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3786-3798.	0.8	18
16	Large amplitude perturbations in the martian exosphere seen in MAVEN NGIMS data. <i>Icarus</i> , 2019, 331, 110-115.	1.1	13
17	Mars's Dayside Upper Ionospheric Composition Is Affected by Magnetic Field Conditions. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3100-3109.	0.8	26
18	First In Situ Evidence of Mars Nonthermal Exosphere. <i>Geophysical Research Letters</i> , 2019, 46, 4144-4150.	1.5	7

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19	Atmospheric Tides at High Latitudes in the Martian Upper Atmosphere Observed by MAVEN and MRO. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 2943-2953.	0.8	24
20	Electron Temperature Response to Solar Forcing in the Low-Latitude Martian Ionosphere. <i>Journal of Geophysical Research E: Planets</i> , 2019, 124, 3082-3094.	1.5	8
21	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.	1.5	27
22	First Evidence of Persistent Nighttime Temperature Structures in the Neutral Thermosphere of Mars. <i>Geophysical Research Letters</i> , 2018, 45, 8819-8825.	1.5	7
23	Variability of Martian Turbopause Altitudes. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2939-2957.	1.5	30
24	Thermal Structure of the Martian Upper Atmosphere From MAVEN NGIMS. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2842-2867.	1.5	91
25	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
26	September 2017 Solar Flare Event: Rapid Heating of the Martian Neutral Upper Atmosphere From the X-Class Flare as Observed by MAVEN. <i>Geophysical Research Letters</i> , 2018, 45, 8803-8810.	1.5	26
27	Ionizing Electrons on the Martian Nightside: Structure and Variability. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4349-4363.	0.8	35
28	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
29	The Mars Topside Ionosphere Response to the X8.2 Solar Flare of 10 September 2017. <i>Geophysical Research Letters</i> , 2018, 45, 8005-8013.	1.5	38
30	NANOGRAIN DENSITY OUTSIDE SATURN'S A RING. <i>Astrophysical Journal Letters</i> , 2017, 834, L6.	3.0	3
31	Longitudinal structures in Mars' upper atmosphere as observed by MAVEN/NGIMS. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1258-1268.	0.8	32
32	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
33	Nightside ionosphere of Mars: Composition, vertical structure, and variability. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4712-4725.	0.8	46
34	MAVEN NGIMS observations of atmospheric gravity waves in the Martian thermosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2310-2335.	0.8	88
35	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.	0.8	52
36	Mars' atmospheric history derived from upper-atmosphere measurements of ³⁸ Ar/ ³⁶ Ar. <i>Science</i> , 2017, 355, 1408-1410.	6.0	183

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37	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.	0.8	124
38	MAVEN observations of dayside peak electron densities in the ionosphere of Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 891-906.	0.8	33
39	MAVEN Observations of Ionospheric Irregularities at Mars. <i>Geophysical Research Letters</i> , 2017, 44, 10,845.	1.5	16
40	Ion Densities in the Nightside Ionosphere of Mars: Effects of Electron Impact Ionization. <i>Geophysical Research Letters</i> , 2017, 44, 11248-11256.	1.5	64
41	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.	0.8	66
42	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.	1.5	48
43	Photoelectrons and solar ionizing radiation at Mars: Predictions versus MAVEN observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8859-8870.	0.8	33
44	Structure and composition of the neutral upper atmosphere of Mars from the MAVEN NGIMS investigation. <i>Geophysical Research Letters</i> , 2015, 42, 8951-8957.	1.5	168
45	Changes in the thermosphere and ionosphere of Mars from Viking to MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9071-9079.	1.5	20
46	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.	1.5	25
47	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015, 350, aad0210.	6.0	166
48	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015, 350, aad0459.	6.0	90
49	Seasonal variations in Saturn's plasma between the main rings and Enceladus. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	27
50	Neutral H ₂ and H ₂ ⁺ ions in the Saturnian magnetosphere. <i>Journal of Geophysical Research</i> , 2011, 116, .	3.3	22