

F G Eparvier

List of Publications by Year in descending order

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100
papers

6,387
citations

76326

40
h-index

66911

78
g-index

104
all docs

104
docs citations

104
times ranked

3245
citing authors

#	ARTICLE	IF	CITATIONS
1	Solar Extreme Ultraviolet Irradiance Uncertainties for Planetary Studies. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	7
2	Tidal Effects on the Longitudinal Structures of the Martian Thermosphere and Topside Ionosphere Observed by MAVEN. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028562.	2.4	12
3	Evidence Against Carbonization of the Thin-Film Filters of the Extreme Ultraviolet Variability Experiment Onboard the Solar Dynamics Observatory. Solar Physics, 2021, 296, 1.	2.5	6
4	SunCET: The Sun Coronal Ejection Tracker Concept. Journal of Space Weather and Space Climate, 2021, 11, 20.	3.3	11
5	On the Altitude Patterns of Photochemical Equilibrium in the Martian Ionosphere: A Special Role for Electron Temperature. Journal of Geophysical Research: Space Physics, 2021, 126, .	2.4	3
6	Ionization Efficiency in the Dayside Ionosphere of Mars: Structure and Variability. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006923.	3.6	5
7	GOES-R Series Solar X-ray and Ultraviolet Irradiance. , 2020, , 233-242.		5
8	Influence of the Solar Wind Dynamic Pressure on the Ion Precipitation: MAVEN Observations and Simulation Results. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028183.	2.4	6
9	The Flare Irradiance Spectral Model Version 2 (FISM2). Space Weather, 2020, 18, e2020SW002588.	3.7	50
10	Initial Observations by the GOLD Mission. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027823.	2.4	80
11	Influence of Extreme Ultraviolet Irradiance Variations on the Precipitating Ion Flux From MAVEN Observations. Geophysical Research Letters, 2019, 46, 7761-7768.	4.0	5
12	Mars Upper Atmospheric Responses to the 10 September 2017 Solar Flare: A Global, Time-Dependent Simulation. Geophysical Research Letters, 2019, 46, 9334-9343.	4.0	19
13	Expansion and Shrinking of the Martian Topside Ionosphere. Journal of Geophysical Research: Space Physics, 2019, 124, 9725-9738.	2.4	16
14	Low Electron Temperatures Observed at Mars by MAVEN on Dayside Crustal Magnetic Field Lines. Journal of Geophysical Research: Space Physics, 2019, 124, 7629-7637.	2.4	8
15	Variability of Precipitating Ion Fluxes During the September 2017 Event at Mars. Journal of Geophysical Research: Space Physics, 2019, 124, 420-432.	2.4	6
16	The GOES-R EUVS model for EUV irradiance variability. Journal of Space Weather and Space Climate, 2019, 9, A43.	3.3	14
17	One-Hertz Waves at Mars: MAVEN Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 3460-3476.	2.4	10
18	Seasonal Variability of Neutral Escape from Mars as Derived From MAVEN Pickup Ion Observations. Journal of Geophysical Research E: Planets, 2018, 123, 1192-1202.	3.6	38

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19	Decoupling Solar Variability and Instrument Trends Using the Multiple Same-Irradiance-Level (MuSIL) Analysis Technique. <i>Solar Physics</i> , 2018, 293, 76.	2.5	43
20	Magnesium II Index measurements from <i>SORCE SOLSTICE</i> and <i>GOES-16 EUVS</i> . <i>Proceedings of the International Astronomical Union</i> , 2018, 13, 167-168.	0.0	1
21	Mars H Escape Rates Derived From <i>MAVEN/IUVS</i> Lyman Alpha Brightness Measurements and Their Dependence on Model Assumptions. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2192-2210.	3.6	42
22	Ultraviolet Solar Spectral Irradiance Variation on Solar Cycle Timescales. <i>Proceedings of the International Astronomical Union</i> , 2018, 13, 203-208.	0.0	3
23	An Artificial Neural Network for Inferring Solar Wind Proxies at Mars. <i>Geophysical Research Letters</i> , 2018, 45, 10,855.	4.0	21
24	Mars Thermospheric Variability Revealed by <i>MAVEN EUVM</i> Solar Occultations: Structure at Aphelion and Perihelion and Response to EUV Forcing. <i>Journal of Geophysical Research E: Planets</i> , 2018, 123, 2248-2269.	3.6	26
25	Solar Ultraviolet Irradiance Observations of the Solar Flares During the Intense September 2017 Storm Period. <i>Space Weather</i> , 2018, 16, 1470-1487.	3.7	34
26	Loss of the Martian atmosphere to space: Present-day loss rates determined from <i>MAVEN</i> observations and integrated loss through time. <i>Icarus</i> , 2018, 315, 146-157.	2.5	216
27	Ionizing Electrons on the Martian Nightside: Structure and Variability. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4349-4363.	2.4	35
28	Center-to-Limb Variability of Hot Coronal EUV Emissions During Solar Flares. <i>Solar Physics</i> , 2018, 293, 1.	2.5	9
29	Observations and Modeling of the Mars Low-Altitude Ionospheric Response to the 10 September 2017 X-class Solar Flare. <i>Geophysical Research Letters</i> , 2018, 45, 7382-7390.	4.0	30
30	Martian Thermospheric Response to an X8.2 Solar Flare on 10 September 2017 as Seen by <i>MAVEN/IUVS</i> . <i>Geophysical Research Letters</i> , 2018, 45, 7312-7319.	4.0	24
31	The Mars Topside Ionosphere Response to the X8.2 Solar Flare of 10 September 2017. <i>Geophysical Research Letters</i> , 2018, 45, 8005-8013.	4.0	38
32	Effects of a Solar Flare on the Martian Hot O Corona and Photochemical Escape. <i>Geophysical Research Letters</i> , 2018, 45, 6814-6822.	4.0	19
33	<i>MAVEN</i> 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.	2.4	55
34	Photochemical escape of oxygen from Mars: First results from <i>MAVEN</i> in situ data. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3815-3836.	2.4	106
35	Structure, dynamics, and seasonal variability of the Mars-solar wind interaction: <i>MAVEN</i> Solar Wind Ion Analyzer in-flight performance and science results. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 547-578.	2.4	191
36	Seasonal variability of Martian ion escape through the plume and tail from <i>MAVEN</i> observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4009-4022.	2.4	66

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37	MAVEN observations of the solar cycle 24 space weather conditions at Mars. Journal of Geophysical Research: Space Physics, 2017, 122, 2768-2794.	2.4	78
38	The MAVEN EUVM model of solar spectral irradiance variability at Mars: Algorithms and results. Journal of Geophysical Research: Space Physics, 2017, 122, 2748-2767.	2.4	116
39	The structure and variability of Mars dayside thermosphere from MAVEN NGIMS and IUVS measurements: Seasonal and solar activity trends in scale heights and temperatures. Journal of Geophysical Research: Space Physics, 2017, 122, 1296-1313.	2.4	124
40	MAVEN observations of dayside peak electron densities in the ionosphere of Mars. Journal of Geophysical Research: Space Physics, 2017, 122, 891-906.	2.4	33
41	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.	2.4	30
42	The Global-Scale Observations of the Limb and Disk (GOLD) Mission. Space Science Reviews, 2017, 212, 383-408.	8.1	105
43	Statistical analysis of the reflection of incident O^{+} pickup ions at Mars: MAVEN observations. Journal of Geophysical Research: Space Physics, 2017, 122, 4089-4101.	2.4	11
44	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.	3.6	27
45	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.	2.4	44
46	Vertical Thermospheric Density Profiles From EUV Solar Occultations Made by PROBA2 LYRA for Solar Cycle 24. Space Weather, 2017, 15, 1649-1660.	3.7	7
47	A time dependent relation between EUV solar flare light-curves from lines with differing formation temperatures. Journal of Space Weather and Space Climate, 2017, 7, A36.	3.3	12
48	Sources of Ionospheric Variability at Mars. Journal of Geophysical Research: Space Physics, 2017, 122, 9670-9684.	2.4	40
49	Rosetta photoelectron emission and solar ultraviolet flux at comet 67P. Monthly Notices of the Royal Astronomical Society, 2017, 469, S626-S635.	4.4	24
50	Soft X-ray irradiance measured by the Solar Aspect Monitor on the Solar Dynamic Observatory Extreme ultraviolet Variability Experiment. Journal of Geophysical Research: Space Physics, 2016, 121, 3648-3664.	2.4	2
51	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.	2.4	50
52	Photoelectrons and solar ionizing radiation at Mars: Predictions versus MAVEN observations. Journal of Geophysical Research: Space Physics, 2016, 121, 8859-8870.	2.4	33
53	Electron energetics in the Martian dayside ionosphere: Model comparisons with MAVEN data. Journal of Geophysical Research: Space Physics, 2016, 121, 7049-7066.	2.4	38
54	The Solar Extreme Ultraviolet Monitor for MAVEN. Space Science Reviews, 2015, 195, 293-301.	8.1	174

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55	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.	4.0	43
56	Study of the Martian cold oxygen corona from the O ^I 130.4nm by IUVS/MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9031-9039.	4.0	21
57	The structure and variability of Mars upper atmosphere as seen in MAVEN/IUVS dayglow observations. <i>Geophysical Research Letters</i> , 2015, 42, 9023-9030.	4.0	95
58	Three-dimensional structure in the Mars H corona revealed by IUVS on MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9001-9008.	4.0	67
59	MAVEN IUVS observation of the hot oxygen corona at Mars. <i>Geophysical Research Letters</i> , 2015, 42, 9009-9014.	4.0	77
60	Mars heavy ion precipitating flux as measured by Mars Atmosphere and Volatile Evolution. <i>Geophysical Research Letters</i> , 2015, 42, 9135-9141.	4.0	39
61	Model insights into energetic photoelectrons measured at Mars by MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 8894-8900.	4.0	28
62	MAVEN insights into oxygen pickup ions at Mars. <i>Geophysical Research Letters</i> , 2015, 42, 8870-8876.	4.0	53
63	The spatial distribution of planetary ion fluxes near Mars observed by MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9142-9148.	4.0	115
64	Neutral density response to solar flares at Mars. <i>Geophysical Research Letters</i> , 2015, 42, 8986-8992.	4.0	33
65	The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. <i>Space Science Reviews</i> , 2015, 195, 3-48.	8.1	563
66	MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015, 350, aad0210.	12.6	166
67	Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015, 350, aad0459.	12.6	90
68	Ionospheric model-observation comparisons: <i>E</i> layer at Arecibo Incorporation of SDO-EVE solar irradiances. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3844-3856.	2.4	11
69	On-Orbit Degradation of Solar Instruments. <i>Solar Physics</i> , 2013, 288, 389-434.	2.5	80
70	Extreme Ultraviolet Variability Experiment (EVE) on the Solar Dynamics Observatory (SDO): Overview of Science Objectives, Instrument Design, Data Products, and Model Developments. <i>Solar Physics</i> , 2012, 275, 115-143.	2.5	375
71	Extreme Ultraviolet Variability Experiment (EVE) Multiple EUV Grating Spectrographs (MEGS): Radiometric Calibrations and Results. <i>Solar Physics</i> , 2012, 275, 145-178.	2.5	50
72	Solar extreme ultraviolet irradiance: Present, past, and future. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	76

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73	NEW SOLAR EXTREME-ULTRAVIOLET IRRADIANCE OBSERVATIONS DURING FLARES. <i>Astrophysical Journal</i> , 2011, 739, 59.	4.5	144
74	Early Observations by the GOES-13 Solar Extreme Ultraviolet Sensor (EUVS). <i>Solar Physics</i> , 2010, 262, 71-115.	2.5	15
75	Extreme Ultraviolet Variability Experiment (EVE) on the Solar Dynamics Observatory (SDO): Overview of Science Objectives, Instrument Design, Data Products, and Model Developments. , 2010, , 115-143.		13
76	The Extreme Ultraviolet Sensor (EUVS) for GOES-R. <i>Proceedings of SPIE</i> , 2009, , .	0.8	23
77	Solar Irradiance Reference Spectra (SIRS) for the 2008 Whole Heliosphere Interval (WHI). <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	171
78	Solar cycle minimum measurements of the solar extreme ultraviolet spectral irradiance on 14 April 2008. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	52
79	EUVS-C: the measurement of the magnesium II index for GOES-R EXIS. , 2009, , .		6
80	Next generation x-ray sensor (XRS) for the NOAA GOES-R satellite series. <i>Proceedings of SPIE</i> , 2009, , .	0.8	38
81	New flare model using recent measurements of the solar ultraviolet irradiance. <i>Advances in Space Research</i> , 2008, 42, 912-916.	2.6	7
82	Cross-Calibration of TIMED SEE and SOHO EIT Irradiances. <i>Solar Physics</i> , 2008, 250, 207-219.	2.5	4
83	Flare Irradiance Spectral Model (FISM): Flare component algorithms and results. <i>Space Weather</i> , 2008, 6, .	3.7	155
84	Constraining and validating the Oct/Nov 2003 X-class EUV flare enhancements with observations of FUV dayglow and E-region electron densities. <i>Journal of Geophysical Research</i> , 2007, 112, n/a-n/a.	3.3	18
85	Flare Irradiance Spectral Model (FISM): Daily component algorithms and results. <i>Space Weather</i> , 2007, 5, .	3.7	156
86	SDO-EVE EUV spectrograph optical design and performance. <i>Proceedings of SPIE</i> , 2007, , .	0.8	17
87	Soft X-ray irradiances during solar flares observed by TIMED-SEE. <i>Journal of Geophysical Research</i> , 2006, 111, .	3.3	21
88	Observations of the solar soft X-ray irradiance by the student nitric oxide explorer. <i>Advances in Space Research</i> , 2006, 37, 209-218.	2.6	12
89	Solar ultraviolet variability during the TIMED mission. <i>Advances in Space Research</i> , 2006, 37, 219-224.	2.6	36
90	Solar EUV Experiment (SEE): Mission overview and first results. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	448

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91	Solar irradiance variability during the October 2003 solar storm period. Geophysical Research Letters, 2004, 31, n/a-n/a.	4.0	166
92	Solar extreme ultraviolet and x-ray irradiance variations. Geophysical Monograph Series, 2004, , 127-140.	0.1	29
93	Solar extreme ultraviolet variability of the X-class flare on 21 April 2002 and the terrestrial photoelectron response. Space Weather, 2003, 1, n/a-n/a.	3.7	30
94	The Extremeâ€Ultraviolet Solar Irradiance Spectrum Observed with the Coronal Diagnostic Spectrometer (CDS) onSOHO. Astrophysical Journal, 2000, 536, 959-970.	4.5	42
95	The SOLAR2000 empirical solar irradiance model and forecast tool. Journal of Atmospheric and Solar-Terrestrial Physics, 2000, 62, 1233-1250.	1.6	402
96	TIMED solar EUV experiment: preflight calibration results for the XUV photometer system. , 1999, , .		15
97	Euv97: Improvements to Euv Irradiance Modeling in the Soft X-Rays and FUV. Solar Physics, 1998, 177, 147-159.	2.5	86
98	<title>TIMED solar EUV experiment</title>. , 1998, 3442, 180.		56
99	EUV97: Improvements to EUV Irradiance Modeling in the Soft X-Rays and FUV. , 1998, , 147-159.		27
100	Global-Scale Observations of the Limb and Disk (Gold): New Observing Capabilities for the Ionosphere-Thermosphere. Geophysical Monograph Series, 0, , 319-326.	0.1	8