

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 | The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. <i>Space Science Reviews</i> , 2015, 195, 3-48. | 8.1 | 563 |
| 2 | Solar EUV Experiment (SEE): Mission overview and first results. <i>Journal of Geophysical Research</i> , 2005, 110, . | 3.3 | 448 |
| 3 | The SOLAR2000 empirical solar irradiance model and forecast tool. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2000, 62, 1233-1250. | 1.6 | 402 |
| 4 | 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 |
| 5 | 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. | 2.5 | 216 |
| 6 | Structure, dynamics, and seasonal variability of the Mars solar wind interaction: MAVEN 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 |
| 7 | The Solar Extreme Ultraviolet Monitor for MAVEN. <i>Space Science Reviews</i> , 2015, 195, 293-301. | 8.1 | 174 |
| 8 | Solar Irradiance Reference Spectra (SIRS) for the 2008 Whole Heliosphere Interval (WHI). <i>Geophysical Research Letters</i> , 2009, 36, . | 4.0 | 171 |
| 9 | Solar irradiance variability during the October 2003 solar storm period. <i>Geophysical Research Letters</i> , 2004, 31, n/a-n/a. | 4.0 | 166 |
| 10 | MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. <i>Science</i> , 2015, 350, aad0210. | 12.6 | 166 |
| 11 | Flare Irradiance Spectral Model (FISM): Daily component algorithms and results. <i>Space Weather</i> , 2007, 5, . | 3.7 | 156 |
| 12 | Flare Irradiance Spectral Model (FISM): Flare component algorithms and results. <i>Space Weather</i> , 2008, 6, . | 3.7 | 155 |
| 13 | NEW SOLAR EXTREME-ULTRAVIOLET IRRADIANCE OBSERVATIONS DURING FLARES. <i>Astrophysical Journal</i> , 2011, 739, 59. | 4.5 | 144 |
| 14 | 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. | 2.4 | 124 |
| 15 | The MAVEN EUVM model of solar spectral irradiance variability at Mars: Algorithms and results. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2748-2767. | 2.4 | 116 |
| 16 | The spatial distribution of planetary ion fluxes near Mars observed by MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9142-9148. | 4.0 | 115 |
| 17 | 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. | 2.4 | 106 |
| 18 | The Global-Scale Observations of the Limb and Disk (GOLD) Mission. <i>Space Science Reviews</i> , 2017, 212, 383-408. | 8.1 | 105 |

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|----|---|------|-----------|
| 19 | The structure and variability of Mars upper atmosphere as seen in MAVEN/ILVS dayglow observations. <i>Geophysical Research Letters</i> , 2015, 42, 9023-9030. | 4.0 | 95 |
| 20 | Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. <i>Science</i> , 2015, 350, aad0459. | 12.6 | 90 |
| 21 | Euv97: Improvements to Euv Irradiance Modeling in the Soft X-Rays and FUV. <i>Solar Physics</i> , 1998, 177, 147-159. | 2.5 | 86 |
| 22 | On-Orbit Degradation of Solar Instruments. <i>Solar Physics</i> , 2013, 288, 389-434. | 2.5 | 80 |
| 23 | Initial Observations by the GOLD Mission. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA027823. | 2.4 | 80 |
| 24 | MAVEN observations of the solar cycle 24 space weather conditions at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 2768-2794. | 2.4 | 78 |
| 25 | MAVEN IUVS observation of the hot oxygen corona at Mars. <i>Geophysical Research Letters</i> , 2015, 42, 9009-9014. | 4.0 | 77 |
| 26 | Solar extreme ultraviolet irradiance: Present, past, and future. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a. | 3.3 | 76 |
| 27 | 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 |
| 28 | Seasonal variability of Martian ion escape through the plume and tail from MAVEN observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4009-4022. | 2.4 | 66 |
| 29 | <title>TIMED solar EUV experiment</title>. , 1998, 3442, 180. | | 56 |
| 30 | 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. | 2.4 | 55 |
| 31 | MAVEN insights into oxygen pickup ions at Mars. <i>Geophysical Research Letters</i> , 2015, 42, 8870-8876. | 4.0 | 53 |
| 32 | 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 |
| 33 | 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 |
| 34 | Proton cyclotron waves occurrence rate upstream from Mars observed by MAVEN: Associated variability of the Martian upper atmosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 11,113. | 2.4 | 50 |
| 35 | The Flare Irradiance Spectral Model—Version 2 (FISM2). <i>Space Weather</i> , 2020, 18, e2020SW002588. | 3.7 | 50 |
| 36 | The Effect of Solar Wind Variations on the Escape of Oxygen Ions From Mars Through Different Channels: MAVEN Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 11,285. | 2.4 | 44 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | 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 |
| 39 | The Extreme-Ultraviolet Solar Irradiance Spectrum Observed with the Coronal Diagnostic Spectrometer (CDS) on SOHO. <i>Astrophysical Journal</i> , 2000, 536, 959-970. | 4.5 | 42 |
| 40 | 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. | 3.6 | 42 |
| 41 | Sources of Ionospheric Variability at Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 9670-9684. | 2.4 | 40 |
| 42 | 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 |
| 43 | Next generation x-ray sensor (XRS) for the NOAA GOES-R satellite series. <i>Proceedings of SPIE</i> , 2009, , . | 0.8 | 38 |
| 44 | Electron energetics in the Martian dayside ionosphere: Model comparisons with MAVEN data. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 7049-7066. | 2.4 | 38 |
| 45 | 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. | 3.6 | 38 |
| 46 | 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 |
| 47 | Solar ultraviolet variability during the TIMED mission. <i>Advances in Space Research</i> , 2006, 37, 219-224. | 2.6 | 36 |
| 48 | Ionizing Electrons on the Martian Nightside: Structure and Variability. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 4349-4363. | 2.4 | 35 |
| 49 | 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 |
| 50 | Neutral density response to solar flares at Mars. <i>Geophysical Research Letters</i> , 2015, 42, 8986-8992. | 4.0 | 33 |
| 51 | Photoelectrons and solar ionizing radiation at Mars: Predictions versus MAVEN observations. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 8859-8870. | 2.4 | 33 |
| 52 | MAVEN observations of dayside peak electron densities in the ionosphere of Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 891-906. | 2.4 | 33 |
| 53 | Solar extreme ultraviolet variability of the X-class flare on 21 April 2002 and the terrestrial photoelectron response. <i>Space Weather</i> , 2003, 1, n/a-n/a. | 3.7 | 30 |
| 54 | Effects of solar irradiance on the upper ionosphere and oxygen ion escape at Mars: MAVEN observations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7142-7152. | 2.4 | 30 |

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| 55 | 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 |
| 56 | Solar extreme ultraviolet and x-ray irradiance variations. <i>Geophysical Monograph Series</i> , 2004, , 127-140. | 0.1 | 29 |
| 57 | Model insights into energetic photoelectrons measured at Mars by MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 8894-8900. | 4.0 | 28 |
| 58 | On the Origins of Mars' Exospheric Nonthermal Oxygen Component as Observed by MAVEN and Modeled by HELIOSARES. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 2401-2428. | 3.6 | 27 |
| 59 | EUV97: Improvements to EUV Irradiance Modeling in the Soft X-Rays and FUV. , 1998, , 147-159. | | 27 |
| 60 | Mars Thermospheric Variability Revealed by MAVEN EUVM 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 |
| 61 | Rosetta photoelectron emission and solar ultraviolet flux at comet 67P. <i>Monthly Notices of the Royal Astronomical Society</i> , 2017, 469, S626-S635. | 4.4 | 24 |
| 62 | 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. | 4.0 | 24 |
| 63 | The Extreme Ultraviolet Sensor (EUVS) for GOES-R. <i>Proceedings of SPIE</i> , 2009, , . | 0.8 | 23 |
| 64 | Soft X-ray irradiances during solar flares observed by TIMED-SEE. <i>Journal of Geophysical Research</i> , 2006, 111, . | 3.3 | 21 |
| 65 | Study of the Martian cold oxygen corona from the O ⁺ 130.4-nm by IUVS/MAVEN. <i>Geophysical Research Letters</i> , 2015, 42, 9031-9039. | 4.0 | 21 |
| 66 | An Artificial Neural Network for Inferring Solar Wind Proxies at Mars. <i>Geophysical Research Letters</i> , 2018, 45, 10,855. | 4.0 | 21 |
| 67 | 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 |
| 68 | Mars Upper Atmospheric Responses to the 10 September 2017 Solar Flare: A Global, Time-Dependent Simulation. <i>Geophysical Research Letters</i> , 2019, 46, 9334-9343. | 4.0 | 19 |
| 69 | 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 |
| 70 | SDO-EVE EUV spectrograph optical design and performance. <i>Proceedings of SPIE</i> , 2007, , . | 0.8 | 17 |
| 71 | Expansion and Shrinking of the Martian Topside Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 9725-9738. | 2.4 | 16 |
| 72 | TIMED solar EUV experiment: preflight calibration results for the XUV photometer system. , 1999, , . | | 15 |

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| 73 | Early Observations by the GOES-13 Solar Extreme Ultraviolet Sensor (EUVS). Solar Physics, 2010, 262, 71-115. | 2.5 | 15 |
| 74 | The GOES-R EUVS model for EUV irradiance variability. Journal of Space Weather and Space Climate, 2019, 9, A43. | 3.3 | 14 |
| 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 | Observations of the solar soft X-ray irradiance by the student nitric oxide explorer. Advances in Space Research, 2006, 37, 209-218. | 2.6 | 12 |
| 77 | 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 |
| 78 | 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 |
| 79 | Ionospheric modelâ€œobservation comparisons: <i>E</i> layer at Arecibo Incorporation of SDOâ€œEVE solar irradiances. Journal of Geophysical Research: Space Physics, 2014, 119, 3844-3856. | 2.4 | 11 |
| 80 | 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 |
| 81 | SunCET: The Sun Coronal Ejection Tracker Concept. Journal of Space Weather and Space Climate, 2021, 11, 20. | 3.3 | 11 |
| 82 | Oneâ€œHertz Waves at Mars: MAVEN Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 3460-3476. | 2.4 | 10 |
| 83 | Center-to-Limb Variability of Hot Coronal EUV Emissions During Solar Flares. Solar Physics, 2018, 293, 1. | 2.5 | 9 |
| 84 | 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 |
| 85 | 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 |
| 86 | New flare model using recent measurements of the solar ultraviolet irradiance. Advances in Space Research, 2008, 42, 912-916. | 2.6 | 7 |
| 87 | 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 |
| 88 | Solar Extreme Ultraviolet Irradiance Uncertainties for Planetary Studies. Journal of Geophysical Research: Space Physics, 2021, 126, . | 2.4 | 7 |
| 89 | EUVS-C: the measurement of the magnesium II index for GOES-R EXIS. , 2009, , . | | 6 |
| 90 | 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 |

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| 91 | Influence of the Solar Wind Dynamic Pressure on the Ion Precipitation: MAVEN Observations and Simulation Results. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028183. | 2.4 | 6 |
| 92 | Evidence Against Carbonization of the Thin-Film Filters of the Extreme Ultraviolet Variability Experiment Onboard the Solar Dynamics Observatory. <i>Solar Physics</i> , 2021, 296, 1. | 2.5 | 6 |
| 93 | Influence of Extreme Ultraviolet Irradiance Variations on the Precipitating Ion Flux From MAVEN Observations. <i>Geophysical Research Letters</i> , 2019, 46, 7761-7768. | 4.0 | 5 |
| 94 | GOES-R Series Solar X-ray and Ultraviolet Irradiance. , 2020, , 233-242. | | 5 |
| 95 | Ionization Efficiency in the Dayside Ionosphere of Mars: Structure and Variability. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006923. | 3.6 | 5 |
| 96 | Cross-Calibration of TIMED SEE and SOHO EIT Irradiances. <i>Solar Physics</i> , 2008, 250, 207-219. | 2.5 | 4 |
| 97 | Ultraviolet Solar Spectral Irradiance Variation on Solar Cycle Timescales. <i>Proceedings of the International Astronomical Union</i> , 2018, 13, 203-208. | 0.0 | 3 |
| 98 | On the Altitude Patterns of Photochemical Equilibrium in the Martian Ionosphere: A Special Role for Electron Temperature. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, . | 2.4 | 3 |
| 99 | Soft X-ray irradiance measured by the Solar Aspect Monitor on the Solar Dynamic Observatory Extreme ultraviolet Variability Experiment. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 3648-3664. | 2.4 | 2 |
| 100 | Magnesium II Index measurements from SORCE SOLSTICE and GOES-16 EUVS. <i>Proceedings of the International Astronomical Union</i> , 2018, 13, 167-168. | 0.0 | 1 |