# Edward M B Thiemann

List of Publications by Year
in descending order



| 61 | 2,356 | 201674 | 206112 |
|---|---|---|---|
| papers | citations | 27 h-index | 48 g-index |

| 63 | 63 | 63 | 1383 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Martian nonmigrating atmospheric tides in the thermosphere and ionosphere at solar minimum. Icarus, 2023, 393, 114767. | 2.5 | 2 |
| 2 | Solar Extreme Ultraviolet Irradiance Uncertainties for Planetary Studies. Journal of Geophysical Research: Space Physics, 2021, 126, . | 2.4 | 7 |
| 3 | PROBA2 LYRA Occultations: Thermospheric Temperature and Composition, Sensitivity to EUV Forcing, and Comparisons With Mars. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029262. | 2.4 | 2 |
| 4 | On the Altitude Patterns of Photoâ€Chemicalâ€Equilibrium in the Martian Ionosphere: A Special Role for Electron Temperature. Journal of Geophysical Research: Space Physics, 2021, 126, . | 2.4 | 3 |
| 5 | Ionization Efficiency in the Dayside Ionosphere of Mars: Structure and Variability. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006923. | 3.6 | 5 |
| 6 | Variations in the Ionospheric Peak Altitude at Mars in Response to Dust Storms: 13 Years of Observations From the Mars Express Radar Sounder. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006092. | 3.6 | 19 |
| 7 | GOES-R Series Solar X-ray and Ultraviolet Irradiance. , 2020, , 233-242. | | 5 |
| 8 | The Flare Irradiance Spectral Modelâ€Version 2 (FISM2). Space Weather, 2020, 18, e2020SW002588. | 3.7 | 50 |
| 9 | Tidal Wave-Driven Variability in the Mars Ionosphere-Thermosphere System. Atmosphere, 2020, 11, 521. | 2.3 | 14 |
| 10 | Subsolar Electron Temperatures in the Lower Martian Ionosphere. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027597. | 2.4 | 6 |
| 11 | Mars Upper Atmospheric Responses to the 10 September 2017 Solar Flare: A Global, Timeâ€Dependent Simulation. Geophysical Research Letters, 2019, 46, 9334-9343. | 4.0 | 19 |
| 12 | The Effects of Crustal Magnetic Fields and Solar EUV Flux on Ionopause Formation at Mars. Geophysical Research Letters, 2019, 46, 10257-10266. | 4.0 | 14 |
| 13 | Solar flares observed by Rosetta at comet 67P/Churyumov-Gerasimenko. Astronomy and Astrophysics, 2019, 630, A49. | 5.1 | 4 |
| 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 | Multiple Scattering Effects in the Interplanetary Medium: Evaluation Using SOHO SWAN and MAVEN EUVM Lyman Î± Measurements. Journal of Geophysical Research: Space Physics, 2019, 124, 3949-3960. | 2.4 | 2 |
| 16 | Seasonal Variability of Deuterium in the Upper Atmosphere of Mars. Journal of Geophysical Research: Space Physics, 2019, 124, 2152-2164. | 2.4 | 13 |
| 17 | Seasonal, Solar Zenith Angle, and Solar Flux Variations of O<sup>+</sup> in the Topside Ionosphere of Mars. Journal of Geophysical Research: Space Physics, 2019, 124, 3125-3138. | 2.4 | 19 |
| 18 | Electron Temperature Response to Solar Forcing in the Lowâ€Latitude Martian Ionosphere. Journal of Geophysical Research E: Planets, 2019, 124, 3082-3094. | 3.6 | 8 |

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|---|---|---|---|
| 19 | The GOES-R EUVS model for EUV irradiance variability. Journal of Space Weather and Space Climate, 2019, 9, A43. | 3.3 | 14 |
| 20 | Oneâ€Hertz Waves at Mars: MAVEN Observations. Journal of Geophysical Research: Space Physics, 2018, 123, 3460-3476. | 2.4 | 10 |
| 21 | 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 |
| 22 | First Evidence of Persistent Nighttime Temperature Structures in the Neutral Thermosphere of Mars. Geophysical Research Letters, 2018, 45, 8819-8825. | 4.0 | 7 |
| 23 | Mars H Escape Rates Derived From MAVEN/IUVS Lyman Alpha Brightness Measurements and Their Dependence on Model Assumptions. Journal of Geophysical Research E: Planets, 2018, 123, 2192-2210. | 3.6 | 42 |
| 24 | An Artificial Neural Network for Inferring Solar Wind Proxies at Mars. Geophysical Research Letters, 2018, 45, 10,855. | 4.0 | 21 |
| 25 | Mars Thermospheric Variability Revealed by MAVEN EUVM Solar Occultations: Structure at Aphelion and Perihelion and Response to EUV Forcing. Journal of Geophysical Research E: Planets, 2018, 123, 2248-2269. | 3.6 | 26 |
| 26 | Solar Ultraviolet Irradiance Observations of the Solar Flares During the Intense September 2017 Storm Period. Space Weather, 2018, 16, 1470-1487. | 3.7 | 34 |
| 27 | Loss of the Martian atmosphere to space: Present-day loss rates determined from MAVEN observations and integrated loss through time. Icarus, 2018, 315, 146-157. | 2.5 | 216 |
| 28 | Flares at Earth and Mars: An Ionospheric Escape Mechanism?. Space Weather, 2018, 16, 1042-1056. | 3.7 | 10 |
| 29 | September 2017 Solar Flare Event: Rapid Heating of the Martian Neutral Upper Atmosphere From the Xâ€Class Flare as Observed by MAVEN. Geophysical Research Letters, 2018, 45, 8803-8810. | 4.0 | 26 |
| 30 | Martian Electron Temperatures in the Subsolar Region: MAVEN Observations Compared to a Oneâ€Dimensional Model. Journal of Geophysical Research: Space Physics, 2018, 123, 5960-5973. | 2.4 | 21 |
| 31 | Ionizing Electrons on the Martian Nightside: Structure and Variability. Journal of Geophysical Research: Space Physics, 2018, 123, 4349-4363. | 2.4 | 35 |
| 32 | Center-to-Limb Variability of Hot Coronal EUV Emissions During Solar Flares. Solar Physics, 2018, 293, 1. | 2.5 | 9 |
| 33 | Significant Space Weather Impact on the Escape of Hydrogen From Mars. Geophysical Research Letters, 2018, 45, 8844-8852. | 4.0 | 29 |
| 34 | Observations and Modeling of the Mars Lowâ€Altitude Ionospheric Response to the 10 September 2017 Xâ€Class Solar Flare. Geophysical Research Letters, 2018, 45, 7382-7390. | 4.0 | 30 |
| 35 | Martian Thermospheric Response to an X8.2 Solar Flare on 10 September 2017 as Seen by MAVEN/IUVS. Geophysical Research Letters, 2018, 45, 7312-7319. | 4.0 | 24 |
| 36 | The Mars Topside Ionosphere Response to the X8.2 Solar Flare of 10 September 2017. Geophysical Research Letters, 2018, 45, 8005-8013. | 4.0 | 38 |

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|---|---|---|---|
| 37 | Effects of a Solar Flare on the Martian Hot O Corona and Photochemical Escape. Geophysical Research Letters, 2018, 45, 6814-6822. | 4.0 | 19 |
| 38 | MAVEN measured oxygen and hydrogen pickup ions: Probing the Martian exosphere and neutral escape. Journal of Geophysical Research: Space Physics, 2017, 122, 3689-3706. | 2.4 | 55 |
| 39 | Photochemical escape of oxygen from Mars: First results from MAVEN in situ data. Journal of Geophysical Research: Space Physics, 2017, 122, 3815-3836. | 2.4 | 106 |
| 40 | 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 |
| 41 | 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 |
| 42 | 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 |
| 43 | The Variability of Atmospheric Deuterium Brightness at Mars: Evidence for Seasonal Dependence. Journal of Geophysical Research: Space Physics, 2017, 122, 10,811. | 2.4 | 15 |
| 44 | 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 |
| 45 | Sources of Ionospheric Variability at Mars. Journal of Geophysical Research: Space Physics, 2017, 122, 9670-9684. | 2.4 | 40 |
| 46 | Rosetta photoelectron emission and solar ultraviolet flux at comet 67P. Monthly Notices of the Royal Astronomical Society, 2017, 469, S626-S635. | 4.4 | 24 |
| 47 | 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 |
| 48 | Photoelectrons and solar ionizing radiation at Mars: Predictions versus MAVEN observations. Journal of Geophysical Research: Space Physics, 2016, 121, 8859-8870. | 2.4 | 33 |
| 49 | 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 |
| 50 | Space Weather Storm Responses at Mars: Lessons from A Weakly Magnetized Terrestrial Planet. Proceedings of the International Astronomical Union, 2016, 12, 211-217. | 0.0 | 0 |
| 51 | The Solar Extreme Ultraviolet Monitor for MAVEN. Space Science Reviews, 2015, 195, 293-301. | 8.1 | 174 |
| 52 | Retrieval of CO<sub>2</sub> and N<sub>2</sub> in the Martian thermosphere using dayglow observations by IUVS on MAVEN. Geophysical Research Letters, 2015, 42, 9040-9049. | 4.0 | 43 |
| 53 | Study of the Martian cold oxygen corona from the Oâ€‰I 130.4â€‰nm by IUVS/MAVEN. Geophysical Research Letters, 2015, 42, 9031-9039. | 4.0 | 21 |
| 54 | The structure and variability of Mars upper atmosphere as seen in MAVEN/IUVS dayglow observations. Geophysical Research Letters, 2015, 42, 9023-9030. | 4.0 | 95 |

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|---|---|---|---|
| 55 | Threeâ€dimensional structure in the Mars H corona revealed by IUVS on MAVEN. Geophysical Research Letters, 2015, 42, 9001-9008. | 4.0 | 67 |
| 56 | MAVEN IUVS observation of the hot oxygen corona at Mars. Geophysical Research Letters, 2015, 42, 9009-9014. | 4.0 | 77 |
| 57 | MAVEN insights into oxygen pickup ions at Mars. Geophysical Research Letters, 2015, 42, 8870-8876. | 4.0 | 53 |
| 58 | Neutral density response to solar flares at Mars. Geophysical Research Letters, 2015, 42, 8986-8992. | 4.0 | 33 |
| 59 | MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. Science, 2015, 350, aad0210. | 12.6 | 166 |
| 60 | Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. Science, 2015, 350, aad0459. | 12.6 | 90 |
| 61 | Radiation Testing a Very Low-Noise RHBD ASIC Electrometer. , 2010, , . | | 0 |