Nicholas M Schneider

List of Publications by Year in descending order

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| | | 81900 | 102487 |
|----------|----------------|--------------|----------------|
| 128 | 4,895 | 39 | 66 |
| papers | citations | h-index | g-index |
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| 133 | 133 | 133 | 2219 |
| all docs | docs citations | times ranked | citing authors |
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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Thermal structure of Mars' middle and upper atmospheres: Understanding the impacts of dynamics and solar forcing. Icarus, 2023, 393, 114703. | 2.5 | 16 |
| 2 | MAVEN/IUVS observations of CÂI 156.1Ânm and 165.7Ânm dayglow: Direct detection of carbon and implications on photochemical escape. Icarus, 2022, 371, 114664. | 2.5 | 2 |
| 3 | Discrete Aurora on the Nightside of Mars: Occurrence Location and Probability. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 6 |
| 4 | Empirically Determined Auroral Electron Events at Mars—MAVEN Observations. Geophysical Research Letters, 2022, 49, . | 4.0 | 8 |
| 5 | Discrete Aurora at Mars: Dependence on Upstream Solar Wind Conditions. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 7 |
| 6 | Reappraising the Production and Transfer of Hydrogen Atoms From the Middle to the Upper Atmosphere of Mars at Times of Elevated Water Vapor. Journal of Geophysical Research E: Planets, 2022, 127, . | 3.6 | 5 |
| 7 | Observations and Modeling of Martian Auroras. Space Science Reviews, 2022, 218, . | 8.1 | 1 |
| 8 | Observations of Atmospheric Tides in the Middle and Upper Atmosphere of Mars From MAVEN and MRO. Journal of Geophysical Research E: Planets, 2022, 127, . | 3.6 | 3 |
| 9 | Another one derives the dust: Ultraviolet dust aerosol properties retrieved from MAVEN/IUVS data. Icarus, 2022, 387, 115177. | 2.5 | 4 |
| 10 | Laboratory Study of the Cameron Bands, the First Negative Bands, and Fourth Positive Bands in the Middle Ultraviolet 180–280Ânm by Electron Impact Upon CO. Journal of Geophysical Research E: Planets, 2021, 126, . | 3.6 | 7 |
| 11 | Study of the hydrogen escape rate at Mars during martian years 28 and 29 from comparisons between SPICAM/Mars express observations and GCM-LMD simulations. Icarus, 2021, 353, 113498. | 2.5 | 16 |
| 12 | An Extremely Elongated Cloud Over Arsia Mons Volcano on Mars: I. Life Cycle. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006517. | 3.6 | 9 |
| 13 | Estimate of the D/H Ratio in the Martian Upper Atmosphere from the Low Spectral Resolution Mode of MAVEN/IUVS. Journal of Geophysical Research E: Planets, 2021, 126, e2020JE006814. | 3.6 | 6 |
| 14 | Martian water loss to space enhanced by regional dust storms. Nature Astronomy, 2021, 5, 1036-1042. | 10.1 | 40 |
| 15 | Discrete Aurora on Mars: Spectral Properties, Vertical Profiles, and Electron Energies. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029495. | 2.4 | 12 |
| 16 | Discrete Aurora on Mars: Insights Into Their Distribution and Activity From MAVEN/IUVS Observations. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029428. | 2.4 | 20 |
| 17 | Enhanced water loss from the martian atmosphere during a regional-scale dust storm and implications for long-term water loss. Earth and Planetary Science Letters, 2021, 571, 117109. | 4.4 | 22 |
| 18 | A Possible Dust Origin for an Unusual Feature in Io's Sodium Neutral Clouds. Astronomical Journal, 2021. 162. 190. | 4.7 | 4 |

| # | Article | IF | CITATIONS |
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| 19 | Effect of the 2018 Martian Global Dust Storm on the CO ₂ Density in the Lower Nightside Thermosphere Observed From MAVEN/IUVS Lymanâ€Alpha Absorption. Geophysical Research Letters, 2020, 47, e2019GL082889. | 4.0 | 13 |
| 20 | Martian Thermospheric Warming Associated With the Planet Encircling Dust Event of 2018. Geophysical Research Letters, 2020, 47, e2019GL085302. | 4.0 | 34 |
| 21 | Mars's Twilight Cloud Band: A New Cloud Feature Seen During the Mars Year 34 Global Dust Storm. Geophysical Research Letters, 2020, 47, e2019GL084997. | 4.0 | 16 |
| 22 | Two-dimensional model for the martian exosphere: Applications to hydrogen and deuterium Lyman α observations. Icarus, 2020, 339, 113573. | 2.5 | 8 |
| 23 | Vertical Propagation of Wave Perturbations in the Middle Atmosphere on Mars by MAVEN/IUVS. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006481. | 3.6 | 18 |
| 24 | Martian Oxygen and Hydrogen Upper Atmospheres Responding to Solar and Dust Storm Drivers: Hisaki Space Telescope Observations. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006500. | 3.6 | 6 |
| 25 | Seasonal and Latitudinal Variations of Dayside N ₂ /CO ₂ Ratio in the Martian Thermosphere Derived From MAVEN IUVS Observations. Journal of Geophysical Research E: Planets, 2020, 125, e2020JE006378. | 3.6 | 8 |
| 26 | Imaging of Martian Circulation Patterns and Atmospheric Tides Through MAVEN/IUVS Nightglow Observations. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027318. | 2.4 | 13 |
| 27 | Isobar Altitude Variations in the Upper Mesosphere Observed With IUVSâ€MAVEN in Response to Martian Dust Storms. Geophysical Research Letters, 2020, 47, e2020GL087468. | 4.0 | 4 |
| 28 | Lyα Observations of Comet C/2013 A1 (Siding Spring) Using MAVEN IUVS Echelle. Astronomical Journal, 2020, 160, 10. | 4.7 | 3 |
| 29 | A Warm Layer in the Nightside Mesosphere of Mars. Geophysical Research Letters, 2020, 47, e2019GL085646. | 4.0 | 9 |
| 30 | Airglow remote sensing of the seasonal variation of the Martian upper atmosphere: MAVEN limb observations and model comparison. Icarus, 2020, 341, 113666. | 2.5 | 11 |
| 31 | Spatially Asymmetric Increase in Hot Electron Fraction in the Io Plasma Torus During Volcanically Active Period Revealed by Observations by Hisaki/EXCEED From November 2014 to May 2015. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027100. | 2.4 | 9 |
| 32 | Invertedâ€V Electron Acceleration Events Concurring With Localized Auroral Observations at Mars by MAVEN. Geophysical Research Letters, 2020, 47, e2020GL087414. | 4.0 | 26 |
| 33 | The UV Spectrum of the Lymanâ€Birgeâ€Hopfield Band System of N ₂ Induced by Cascading from Electron Impact. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027546. | 2.4 | 13 |
| 34 | Detection of Mesospheric CO ₂ Ice Clouds on Mars in Southern Summer. Geophysical Research Letters, 2019, 46, 7962-7971. | 4.0 | 13 |
| 35 | MAVEN″UVS Observations of the CO ₂ ⁺ UV Doublet and CO Cameron Bands in the Martian Thermosphere: Aeronomy, Seasonal, and Latitudinal Distribution. Journal of Geophysical Research: Space Physics, 2019, 124, 5816-5827. | 2.4 | 18 |
| 36 | Characteristics of Mars UV Dayglow Emissions From Atomic Oxygen at 130.4 and 135.6 nm: MAVEN/IUVS Limb Observations and Modeling. Journal of Geophysical Research: Space Physics, 2019, 124, 4809-4832. | 2.4 | 12 |

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| 37 | Localized Ionization Hypothesis for Transient Ionospheric Layers. Journal of Geophysical Research: Space Physics, 2019, 124, 4870-4880. | 2.4 | 19 |
| 38 | Large Volcanic Event on Io Inferred from Jovian Sodium Nebula Brightening. Astrophysical Journal Letters, 2019, 871, L23. | 8.3 | 3 |
| 39 | Seasonal Variability of Deuterium in the Upper Atmosphere of Mars. Journal of Geophysical Research: Space Physics, 2019, 124, 2152-2164. | 2.4 | 13 |
| 40 | Detection of the Nitric Oxide Dayglow on Mars by MAVEN/IUVS. Journal of Geophysical Research E: Planets, 2019, 124, 1226-1237. | 3.6 | 13 |
| 41 | Atmospheric Tides at High Latitudes in the Martian Upper Atmosphere Observed by MAVEN and MRO. Journal of Geophysical Research: Space Physics, 2019, 124, 2943-2953. | 2.4 | 24 |
| 42 | UV Study of the Fourth Positive Band System of CO and O <scp>i</scp> 135.6Ânm From Electron Impact on CO and CO ₂ . Journal of Geophysical Research: Space Physics, 2019, 124, 2954-2977. | 2.4 | 12 |
| 43 | Sodium and Potassium Signatures of Volcanic Satellites Orbiting Close-in Gas Giant Exoplanets. Astrophysical Journal, 2019, 885, 168. | 4.5 | 38 |
| 44 | Proton Aurora on Mars: A Dayside Phenomenon Pervasive in Southern Summer. Journal of Geophysical Research: Space Physics, 2019, 124, 10533-10548. | 2.4 | 24 |
| 45 | Meteoric Metal Chemistry in the Martian Atmosphere. Journal of Geophysical Research E: Planets, 2018, 123, 695-707. | 3.6 | 28 |
| 46 | 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 |
| 47 | The Impact of Comet Siding Spring's Meteors on the Martian Atmosphere and Ionosphere. Journal of Geophysical Research E: Planets, 2018, 123, 2613-2627. | 3.6 | 14 |
| 48 | The O(¹ S) 297.2â€nm Dayglow Emission: A Tracer of CO ₂ Density Variations in the Martian Lower Thermosphere. Journal of Geophysical Research E: Planets, 2018, 123, 3119-3132. | 3.6 | 14 |
| 49 | Global Aurora on Mars During the September 2017 Space Weather Event. Geophysical Research Letters, 2018, 45, 7391-7398. | 4.0 | 44 |
| 50 | 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 |
| 51 | Discovery of a proton aurora at Mars. Nature Astronomy, 2018, 2, 802-807. | 10.1 | 50 |
| 52 | A Survey of Visible <scp>S⁺</scp> Emission in Io's Plasma Torus During the Hisaki Epoch. Journal of Geophysical Research: Space Physics, 2018, 123, 5610-5624. | 2.4 | 13 |
| 53 | Significant Space Weather Impact on the Escape of Hydrogen From Mars. Geophysical Research Letters, 2018, 45, 8844-8852. | 4.0 | 29 |
| 54 | 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 |

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| 55 | MAVEN/IUVS Stellar Occultation Measurements of Mars Atmospheric Structure and Composition. Journal of Geophysical Research E: Planets, 2018, 123, 1449-1483. | 3.6 | 56 |
| 56 | Elevated atmospheric escape of atomic hydrogen from Mars induced by high-altitude water. Nature Geoscience, 2017, 10, 174-178. | 12.9 | 105 |
| 57 | Variability of D and H in the Martian upper atmosphere observed with the MAVEN IUVS echelle channel. Journal of Geophysical Research: Space Physics, 2017, 122, 2336-2344. | 2.4 | 64 |
| 58 | Martian mesospheric cloud observations by IUVS on MAVEN: Thermal tides coupled to the upper atmosphere. Geophysical Research Letters, 2017, 44, 4709-4715. | 4.0 | 23 |
| 59 | Detection of a persistent meteoric metal layer in the Martian atmosphere. Nature Geoscience, 2017, 10, 401-404. | 12.9 | 52 |
| 60 | Nitric oxide nightglow and Martian mesospheric circulation from MAVEN/IUVS observations and LMDâ€MGCM predictions. Journal of Geophysical Research: Space Physics, 2017, 122, 5782-5797. | 2.4 | 36 |
| 61 | 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 |
| 62 | SPICAM on Mars Express: A 10 year in-depth survey of the Martian atmosphere. Icarus, 2017, 297, 195-216. | 2.5 | 64 |
| 63 | IUVS echelleâ€mode observations of interplanetary hydrogen: Standard for calibration and reference for cavity variations between Earth and Mars during MAVEN cruise. Journal of Geophysical Research: Space Physics, 2017, 122, 2089-2105. | 2.4 | 16 |
| 64 | 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 |
| 65 | Seasonal Changes in Hydrogen Escape From Mars Through Analysis of HST Observations of the Martian Exosphere Near Perihelion. Journal of Geophysical Research: Space Physics, 2017, 122, 11,756. | 2.4 | 22 |
| 66 | 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 |
| 67 | Simultaneous observations of atmospheric tides from combined in situ and remote observations at Mars from the MAVEN spacecraft. Journal of Geophysical Research E: Planets, 2016, 121, 594-607. | 3.6 | 48 |
| 68 | Effect of the planet shine on the corona: Application to the Martian hot oxygen. Journal of Geophysical Research: Space Physics, 2016, 121, 11,413. | 2.4 | 4 |
| 69 | Comparison of the Martian thermospheric density and temperature from IUVS/MAVEN data and general circulation modeling. Geophysical Research Letters, 2016, 43, 3095-3104. | 4.0 | 34 |
| 70 | Characterizing Atmospheric Escape from Mars Today and Through Time, with MAVEN. Space Science Reviews, 2015, 195, 357-422. | 8.1 | 99 |
| 71 | Ultraviolet observations of the hydrogen coma of comet C/2013 A1 (Siding Spring) by MAVEN/IUVS. Geophysical Research Letters, 2015, 42, 8803-8809. | 4.0 | 11 |
| 72 | MAVEN IUVS observations of the aftermath of the Comet Siding Spring meteor shower on Mars. Geophysical Research Letters, 2015, 42, 4755-4761. | 4.0 | 56 |

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| 73 | Nonmigrating tides in the Martian atmosphere as observed by MAVEN IUVS. Geophysical Research Letters, 2015, 42, 9057-9063. | 4.0 | 43 |
| 74 | Retrieval of CO ₂ and N ₂ in the Martian thermosphere using dayglow observations by IUVS on MAVEN. Geophysical Research Letters, 2015, 42, 9040-9049. | 4.0 | 43 |
| 75 | Study of the Martian cold oxygen corona from the O I 130.4 nm by IUVS/MAVEN. Geophysical Research Letters, 2015, 42, 9031-9039. | 4.0 | 21 |
| 76 | 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 |
| 77 | Threeâ€dimensional structure in the Mars H corona revealed by IUVS on MAVEN. Geophysical Research Letters, 2015, 42, 9001-9008. | 4.0 | 67 |
| 78 | MAVEN IUVS observation of the hot oxygen corona at Mars. Geophysical Research Letters, 2015, 42, 9009-9014. | 4.0 | 77 |
| 79 | New observations of molecular nitrogen in the Martian upper atmosphere by IUVS on MAVEN. Geophysical Research Letters, 2015, 42, 9050-9056. | 4.0 | 41 |
| 80 | A comparison of 3â€Ð model predictions of Mars' oxygen corona with early MAVEN IUVS observations. Geophysical Research Letters, 2015, 42, 9015-9022. | 4.0 | 35 |
| 81 | Probing the Martian atmosphere with MAVEN/IUVS stellar occultations. Geophysical Research Letters, 2015, 42, 9064-9070. | 4.0 | 42 |
| 82 | Neutral density response to solar flares at Mars. Geophysical Research Letters, 2015, 42, 8986-8992. | 4.0 | 33 |
| 83 | The Imaging Ultraviolet Spectrograph (IUVS) for the MAVEN Mission. Space Science Reviews, 2015, 195, 75-124. | 8.1 | 139 |
| 84 | The Mars Atmosphere and Volatile Evolution (MAVEN) Mission. Space Science Reviews, 2015, 195, 3-48. | 8.1 | 563 |
| 85 | MAVEN observations of the response of Mars to an interplanetary coronal mass ejection. Science, 2015, 350, aad0210. | 12.6 | 166 |
| 86 | Discovery of diffuse aurora on Mars. Science, 2015, 350, aad0313. | 12.6 | 98 |
| 87 | Early MAVEN Deep Dip campaign reveals thermosphere and ionosphere variability. Science, 2015, 350, aad0459. | 12.6 | 90 |
| 88 | Unexpected variability of Martian hydrogen escape. Geophysical Research Letters, 2014, 41, 314-320. | 4.0 | 137 |
| 89 | Solar control of sodium escape from Io. Journal of Geophysical Research E: Planets, 2014, 119, 404-415. | 3.6 | 12 |
| 90 | First detection of [OI] 630 nm emission in the Enceladus torus. Geophysical Research Letters, 2013, 40, 4177-4181. | 4.0 | 1 |

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| 91 | Longitudinal modulation of hot electrons in the Io plasma torus. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 27 |
| 92 | Io's Escaping Atmosphere: Continuing the Legacy of Surprise. Proceedings of the International Astronomical Union, 2010, 6, 80-86. | 0.0 | 0 |
| 93 | Io, the closest Galileo's Medicean Moon: Changes in its Sodium Cloud Caused by Jupiter Eclipse. Proceedings of the International Astronomical Union, 2010, 6, 224-228. | 0.0 | 1 |
| 94 | No sodium in the vapour plumes of Enceladus. Nature, 2009, 459, 1102-1104. | 27.8 | 41 |
| 95 | Shortâ€ŧerm variations of Mercury's Na exosphere observed with very high spectral resolution. Geophysical Research Letters, 2009, 36, . | 4.0 | 34 |
| 96 | New description of Io's cold plasma torus. Journal of Geophysical Research, 2008, 113, . | 3.3 | 16 |
| 97 | High latitude peaks in Mercury's sodium exosphere: Spectral signature using THEMIS solar telescope. Geophysical Research Letters, 2008, 35, . | 4.0 | 33 |
| 98 | lo's neutral clouds, plasma torus, magnetospheric interaction. , 2007, , 265-286. | | 14 |
| 99 | Photon-by-photon post-processing correction of pointing errors in an orbiting satellite. , 2005, 5899, 359. | | 0 |
| 100 | System verification of the JMEX mission residual motion requirements with integrated modeling. , 2005, , . | | 0 |
| 101 | Volcanically emitted sodium chloride as a source for Io's neutral clouds and plasma torus. Nature, 2003, 421, 45-47. | 27.8 | 102 |
| 102 | Hubble Space Telescope observations of sulfur ions in the Io plasma torus: New constraints on the plasma distribution. Journal of Geophysical Research, 2003, 108, . | 3.3 | 10 |
| 103 | A compact high-throughput imaging EUV/FUV spectrometer. , 2003, , . | | 1 |
| 104 | A high-resolution high-throughput FUV imager for the JMEX mission. , 2003, 4854, 620. | | 0 |
| 105 | The Dual Sources of Io's Sodium Clouds. Icarus, 2002, 157, 476-489. | 2.5 | 47 |
| 106 | Mutual Event Observations of Io's Sodium Corona. Astrophysical Journal, 2001, 563, 1063-1074. | 4.5 | 12 |
| 107 | Eclipse Spectroscopy of Io's Atmosphere. Icarus, 2000, 148, 316-319. | 2.5 | 22 |
| 108 | Discovery of chlorine in the Io torus. Geophysical Research Letters, 2000, 27, 513-516. | 4.0 | 63 |

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| 109 | Galileo's Close-up view of the Io sodium jet - Errata. Geophysical Research Letters, 2000, 27, 1081-1081. | 4.0 | 1 |
| 110 | Galileo's close-up view of the Io sodium jet. Geophysical Research Letters, 1999, 26, 3333-3336. | 4.0 | 26 |
| 111 | Io's sodium directional feature: Evidence for ionospheric escape. Journal of Geophysical Research, 1999, 104, 16567-16583. | 3.3 | 30 |
| 112 | The density of the lo plasma torus ribbon. Geophysical Research Letters, 1998, 25, 2757-2760. | 4.0 | 1 |
| 113 | On the nature of the λIIIbrightness asymmetry in the Io torus. Journal of Geophysical Research, 1997, 102, 19823-19833. | 3.3 | 29 |
| 114 | Galileo measurements of plasma density in the Io torus. Geophysical Research Letters, 1997, 24, 2119-2122. | 4.0 | 45 |
| 115 | Distribution and Abundance of Sodium in Mercury's Atmosphere, 1985–1988. Icarus, 1997, 129, 506-527. | 2.5 | 97 |
| 116 | Ground-Based Remote Sensing of Energetic Neutral Atoms in Jupiter's Magnetosphere. Astrophysics and Space Science Library, 1997, , 411-420. | 2.7 | 1 |
| 117 | IO ON THE EVE OF THE GALILEO MISSION. Annual Review of Earth and Planetary Sciences, 1996, 24, 125-190. | 11.0 | 172 |
| 118 | A comparison of the Voyager 1 ultraviolet spectrometer and plasma science measurements of the Io plasma torus. Journal of Geophysical Research, 1995, 100, 19541. | 3.3 | 21 |
| 119 | The Structure of the Io Torus. Astrophysical Journal, 1995, 450, 450. | 4.5 | 113 |
| 120 | lo's Fast Sodium: Implications for Molecular and Atomic Atmospheric Escape. Icarus, 1994, 111, 31-44. | 2.5 | 35 |
| 121 | Hubble Space Telescope UV spectral observations of Io passing into eclipse. Journal of Geophysical Research, 1994, 99, 8387. | 3.3 | 63 |
| 122 | Extreme ultraviolet explorer satellite observation of Jupiter's Io plasma torus. Astrophysical Journal, 1994, 426, L51. | 4.5 | 56 |
| 123 | Molecular Origin of Io's Fast Sodium. Science, 1991, 253, 1394-1397. | 12.6 | 57 |
| 124 | A Cassegrain echelle spectrograph. Publications of the Astronomical Society of the Pacific, 1991, 103, 1187. | 3.1 | 20 |
| 125 | The structure of Io's corona. Astrophysical Journal, 1991, 368, 298. | 4.5 | 50 |
| 126 | Eclipse Measurements of Io's Sodium Atmosphere. Science, 1987, 238, 55-58. | 12.6 | 28 |

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| 127 | Sodium remote from Io. Icarus, 1981, 48, 519-535. | 2.5 | 25 |
| 128 | Exploring the Mars atmosphere with ultraviolet spectroscopy. SPIE Newsroom, 0, , . | 0.1 | 0 |