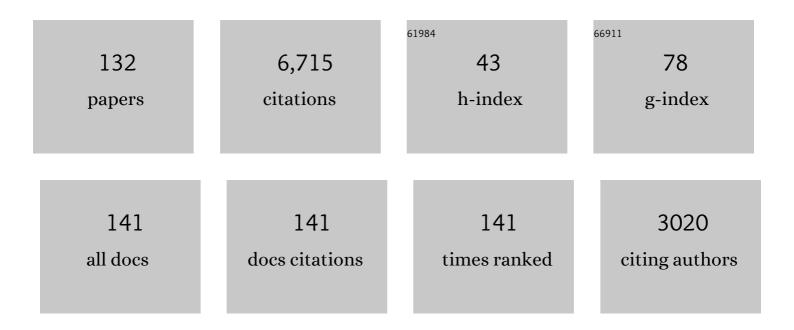
Stephen B Mende

List of Publications by Year in descending order

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| # | Article | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Control of equatorial ionospheric morphology by atmospheric tides. Geophysical Research Letters, 2006, 33, . | 4.0 | 551 |
| 2 | Tail Reconnection Triggering Substorm Onset. Science, 2008, 321, 931-935. | 12.6 | 551 |
| 3 | The THEMIS Array of Ground-based Observatories forÂthe Study of Auroral Substorms. Space Science Reviews, 2008, 141, 357-387. | 8.1 | 274 |
| 4 | Longitudinal structure of the equatorial anomaly in the nighttime ionosphere observed by IMAGE/FUV. Journal of Geophysical Research, 2005, 110, . | 3.3 | 267 |
| 5 | Identifying the Driver of Pulsating Aurora. Science, 2010, 330, 81-84. | 12.6 | 249 |
| 6 | Substorm onset observations by IMAGE-FUV. Journal of Geophysical Research, 2004, 109, . | 3.3 | 246 |
| 7 | Global distributions and occurrence rates of transient luminous events. Journal of Geophysical Research, 2008, 113, . | 3.3 | 186 |
| 8 | The Ionospheric Connection Explorer Mission: Mission Goals and Design. Space Science Reviews, 2018, 214, 1. | 8.1 | 152 |
| 9 | The THEMIS all-sky imaging array—system design and initial results from the prototype imager. Journal of Atmospheric and Solar-Terrestrial Physics, 2006, 68, 1472-1487. | 1.6 | 139 |
| 10 | O/N2changes during 1–4 October 2002 storms: IMAGE SI-13 and TIMED/GUVI observations. Journal of Geophysical Research, 2004, 109, . | 3.3 | 135 |
| 11 | Continuous magnetic reconnection at Earth's magnetopause. Nature, 2003, 426, 533-537. | 27.8 | 127 |
| 12 | Intensification of preexisting auroral arc at substorm expansion phase onset: Waveâ€like disruption during the first tens of seconds. Geophysical Research Letters, 2008, 35, . | 4.0 | 126 |
| 13 | Airborne observations of auroral precipitation patterns. Journal of Geophysical Research, 1971, 76, 1746-1755. | 3.3 | 120 |
| 14 | Michelson Interferometer for Global High-Resolution Thermospheric Imaging (MIGHTI): Instrument Design and Calibration. Space Science Reviews, 2017, 212, 553-584. | 8.1 | 116 |
| 15 | Proton aurora in the cusp. Journal of Geophysical Research, 2002, 107, SMP 2-1. | 3.3 | 115 |
| 16 | Sprite spectra; N21 PG band identification. Geophysical Research Letters, 1995, 22, 2633-2636. | 4.0 | 108 |
| 17 | Cusp aurora dependence on interplanetary magnetic fieldBz. Journal of Geophysical Research, 2002, 107, SIA 6-1. | 3.3 | 105 |
| 18 | FAST and IMAGE-FUV observations of a substorm onset. Journal of Geophysical Research, 2003, 108, . | 3.3 | 104 |

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| # | Article | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Timing of magnetic reconnection initiation during a global magnetospheric substorm onset. Geophysical Research Letters, 2002, 29, 43-1-43-4. | 4.0 | 102 |
| 20 | Plasma Injection at Synchronous Orbit and Spatial and Temporal Auroral Morphology. Journal of Geophysical Research, 1976, 81, 2805-2824. | 3.3 | 100 |
| 21 | Dregion ionization by lightning-induced electromagnetic pulses. Journal of Geophysical Research, 2005, 110, . | 3.3 | 100 |
| 22 | Multievent study of the correlation between pulsating aurora and whistler mode chorus emissions. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 85 |
| 23 | Systematics in auroral energy spectra. Journal of Geophysical Research, 1972, 77, 660-673. | 3.3 | 75 |
| 24 | Discharge processes, electric field, and electron energy in ISUALâ€recorded gigantic jets. Journal of Geophysical Research, 2009, 114, . | 3.3 | 73 |
| 25 | Impacts of the January 2022 Tonga Volcanic Eruption on the Ionospheric Dynamo: ICONâ€MIGHTI and Swarm Observations of Extreme Neutral Winds and Currents. Geophysical Research Letters, 2022, 49, . | 4.0 | 67 |
| 26 | Relations between multiple auroral streamers, pre-onset thin arc formation, and substorm auroral onset. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 64 |
| 27 | Nearâ \in Earth initiation of a terrestrial substorm. Journal of Geophysical Research, 2009, 114, . | 3.3 | 60 |
| 28 | Modeling elves observed by FORMOSATâ $\in 2$ satellite. Journal of Geophysical Research, 2007, 112, . | 3.3 | 59 |
| 29 | Halos generated by negative cloudâ€ŧoâ€ground lightning. Geophysical Research Letters, 2007, 34, . | 4.0 | 58 |
| 30 | Timing and localization of ionospheric signatures associated with substorm expansion phase onset. Journal of Geophysical Research, 2009, 114, . | 3.3 | 58 |
| 31 | Comparison of results from sprite streamer modeling with spectrophotometric measurements by ISUAL instrument on FORMOSAT-2 satellite. Geophysical Research Letters, 2006, 33, n/a-n/a. | 4.0 | 57 |
| 32 | Statistical properties of substorm auroral onset beads/rays. Journal of Geophysical Research: Space Physics, 2016, 121, 8661-8676. | 2.4 | 54 |
| 33 | Statistical study of high-latitude plasma flow during magnetospheric substorms. Annales Geophysicae, 2004, 22, 3607-3624. | 1.6 | 53 |
| 34 | Monochromatic all-sky observations and auroral precipitation patterns. Journal of Geophysical Research, 1976, 81, 3771-3780. | 3.3 | 52 |
| 35 | Radiative emission and energy deposition in transient luminous events. Journal Physics D: Applied Physics, 2008, 41, 234014. | 2.8 | 51 |
| 36 | Preonset time sequence of auroral substorms: Coordinated observations by allâ€ s ky imagers, satellites, and radars. Journal of Geophysical Research, 2010, 115, . | 3.3 | 51 |

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| 37 | Substorm triggering by poleward boundary intensification and related equatorward propagation. Journal of Geophysical Research, 2011, 116, . | 3.3 | 50 |
| 38 | Nightside ionospheric electrodynamics associated with substorms: PFISR and THEMIS ASI observations. Journal of Geophysical Research, 2009, 114, . | 3.3 | 49 |
| 39 | Sudden solar wind dynamic pressure enhancements and dayside detached auroras: IMAGE and DMSP observations. Journal of Geophysical Research, 2003, 108, COA 2-1. | 3.3 | 48 |
| 40 | Instrument for the monochromatic observation of all sky auroral images. Applied Optics, 1977, 16, 1691. | 2.1 | 47 |
| 41 | Properties of 6300â€Ã auroral emissions at South Pole. Journal of Geophysical Research, 1989, 94, 1402-1416. | 3.3 | 46 |
| 42 | Storm-substorm relationship: Variations of the hydrogen and oxygen energetic neutral atom intensities during storm-time substorms. Journal of Geophysical Research, 2005, 110, . | 3.3 | 46 |
| 43 | Coordinated observations of the magnetosphere: The development of a substorm. Journal of Geophysical Research, 1972, 77, 4682-4699. | 3.3 | 45 |
| 44 | Magnetic impulses and associated optical signatures in the dayside aurora. Geophysical Research Letters, 1990, 17, 131-134. | 4.0 | 42 |
| 45 | IMAGE FUV and in situ FAST particle observations of substorm aurorae. Journal of Geophysical Research, 2003, 108, . | 3.3 | 42 |
| 46 | Negative ionospheric storms seen by the IMAGE FUV instrument. Journal of Geophysical Research, 2003, 108, . | 3.3 | 42 |
| 47 | Proton aurora in the cusp during southward IMF. Journal of Geophysical Research, 2003, 108, . | 3.3 | 42 |
| 48 | Global observations of proton and electron auroras in a substorm. Geophysical Research Letters, 2001, 28, 1139-1142. | 4.0 | 40 |
| 49 | Total electron and proton energy input during auroral substorms: Remote sensing with IMAGE-FUV. Journal of Geophysical Research, 2002, 107, SMP 15-1-SMP 15-12. | 3.3 | 40 |
| 50 | Electric fields and electron energies in sprites and temporal evolutions of lightning charge moment. Journal Physics D: Applied Physics, 2008, 41, 234010. | 2.8 | 40 |
| 51 | Substorm onset and expansion phase intensification precursors seen in polar cap patches and arcs. Journal of Geophysical Research: Space Physics, 2013, 118, 2034-2042. | 2.4 | 40 |
| 52 | The Far Ultra-Violet Imager on the Icon Mission. Space Science Reviews, 2017, 212, 655-696. | 8.1 | 39 |
| 53 | ISUAL farâ€ultraviolet events, elves, and lightning current. Journal of Geophysical Research, 2010, 115, . | 3.3 | 38 |
| 54 | Statistical behavior of proton and electron auroras during substorms. Journal of Geophysical Research, 2003, 108, . | 3.3 | 37 |

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|----|---|------|-----------|
| 55 | Dynamics of global scale electron and proton precipitation induced by a solar wind pressure pulse. Geophysical Research Letters, 2003, 30, . | 4.0 | 35 |
| 56 | Simultaneous radio and satellite optical measurements of high-altitude sprite current and lightning continuing current. Journal of Geophysical Research, 2006, 111, . | 3.3 | 35 |
| 57 | Subauroral Green STEVE Arcs: Evidence for Lowâ€Energy Excitation. Geophysical Research Letters, 2019, 46, 14256-14262. | 4.0 | 32 |
| 58 | Solar wind control of auroral substorm onset locations observed with the IMAGE-FUV imagers. Journal of Geophysical Research, 2004, 109, . | 3.3 | 30 |
| 59 | Assessment of sprite initiating electric fields and quenching altitude of <i>a</i> ¹ î _{<i>g</i>} state of N ₂ using sprite streamer modeling and ISUAL spectrophotometric measurements. Journal of Geophysical Research, 2009, 114, . | 3.3 | 30 |
| 60 | Estimation of magnetic field mapping accuracy using the pulsating aurora-chorus connection. Geophysical Research Letters, 2011, 38, n/a-n/a. | 4.0 | 29 |
| 61 | Global view of the nighttime low-latitude ionosphere by the IMAGE/FUV 135.6 nm observations. Geophysical Research Letters, 2003, 30, n/a-n/a. | 4.0 | 26 |
| 62 | Simultaneous observations of equatorial plasma depletion by IMAGE and ROCSAT-1 satellites. Journal of Geophysical Research, 2005, 110, . | 3.3 | 26 |
| 63 | Multistation observations of auroras: Polar cap substorms. Journal of Geophysical Research, 1999, 104, 2333-2342. | 3.3 | 25 |
| 64 | Evolution of nightside subauroral proton aurora caused by transient plasma sheet flows. Journal of Geophysical Research: Space Physics, 2014, 119, 5295-5304. | 2.4 | 25 |
| 65 | Coordinated ionospheric observations indicating coupling between preonset flow bursts and waves that lead to substorm onset. Journal of Geophysical Research: Space Physics, 2014, 119, 3333-3344. | 2.4 | 25 |
| 66 | Regulation of ionospheric plasma velocities by thermospheric winds. Nature Geoscience, 2021, 14, 893-898. | 12.9 | 25 |
| 67 | Southern Hemisphere poleward moving auroral forms. Journal of Geophysical Research, 2003, 108, . | 3.3 | 24 |
| 68 | Identification of substorm onset location and preonset sequence using Reimei, THEMIS GBO, PFISR, and Geotail. Journal of Geophysical Research, 2010, 115, . | 3.3 | 24 |
| 69 | The Imager for Sprites and Upper Atmospheric Lightning (ISUAL). Journal of Geophysical Research: Space Physics, 2016, 121, 8134-8145. | 2.4 | 23 |
| 70 | Multipoint in situ and groundâ $\!$ | 3.3 | 22 |
| 71 | Statistical study of substorm timing sequence. Journal of Geophysical Research, 2009, 114, . | 3.3 | 22 |
| 72 | A Mechanism for the STEVE Continuum Emission. Geophysical Research Letters, 2020, 47, e2020GL087102. | 4.0 | 22 |

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| 73 | Spectroscopic determination of the characteristics of precipitating auroral particles. Journal of Geophysical Research, 1975, 80, 3211-3216. | 3.3 | 21 |
| 74 | Determination of substorm onset timing and location using the THEMIS ground based observatories. Geophysical Research Letters, 2007, 34, . | 4.0 | 21 |
| 75 | THEMIS Ground Based Observatory System Design. Space Science Reviews, 2008, 141, 213-233. | 8.1 | 21 |
| 76 | Longitudinal development of a substorm brightening arc. Annales Geophysicae, 2009, 27, 1935-1940. | 1.6 | 20 |
| 77 | Inferring Nighttime Ionospheric Parameters with the Far Ultraviolet Imager Onboard the Ionospheric Connection Explorer. Space Science Reviews, 2018, 214, 1. | 8.1 | 20 |
| 78 | Daytime O/N2 Retrieval Algorithm for the Ionospheric Connection Explorer (ICON). Space Science Reviews, 2018, 214, 1. | 8.1 | 19 |
| 79 | Morphology and seasonal variations of global auroral proton precipitation observed by IMAGE-FUV. Journal of Geophysical Research, 2004, 109, . | 3.3 | 17 |
| 80 | Controlling synopticâ€scale factors for the distribution of transient luminous events. Journal of Geophysical Research, 2010, 115, . | 3.3 | 17 |
| 81 | lonization emissions associated with N ₂ ⁺ 1N band in halos without visible sprite streamers. Journal of Geophysical Research: Space Physics, 2013, 118, 5317-5326. | 2.4 | 17 |
| 82 | The THEMIS Array of Ground-based Observatories forÂthe Study of Auroral Substorms. , 2009, , 357-387. | | 17 |
| 83 | On the Global Occurrence and Impacts of Transient Luminous Events (TLEs). , 2009, , . | | 16 |
| 84 | Tail reconnection region versus auroral activity inferred from conjugate ARTEMIS plasma sheet flow and auroral observations. Journal of Geophysical Research: Space Physics, 2013, 118, 5758-5766. | 2.4 | 16 |
| 85 | Investigation of triggering of poleward moving auroral forms using satelliteâ€imager coordinated observations. Journal of Geophysical Research: Space Physics, 2016, 121, 10,929. | 2.4 | 15 |
| 86 | Source of the dayside cusp aurora. Journal of Geophysical Research: Space Physics, 2016, 121, 7728-7738. | 2.4 | 15 |
| 87 | Mesoscale <i>F</i> Region Neutral Winds Associated With Quasiâ€steady and Transient Nightside Auroral Forms. Journal of Geophysical Research: Space Physics, 2018, 123, 7968-7984. | 2.4 | 15 |
| 88 | Relation of substorm preâ€onset arc to largeâ€scale fieldâ€aligned current distribution. Geophysical Research Letters, 2012, 39, . | 4.0 | 14 |
| 89 | Identifying the magnetotail source region leading to preonset poleward boundary intensifications. Journal of Geophysical Research: Space Physics, 2013, 118, 4335-4340. | 2.4 | 13 |
| 90 | Ground and satellite observations of substorm onset arcs. Journal of Geophysical Research, 2005, 110, | 3.3 | 12 |

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| 91 | Analysis of close conjunctions between dayside polar cap airglow patches and flow channels by all-sky imager and DMSP. Earth, Planets and Space, 2016, 68, . | 2.5 | 12 |
| 92 | Identifying the occurrence of lightning and transient luminous events by nadir spectrophotometric observation. Journal of Atmospheric and Solar-Terrestrial Physics, 2016, 145, 85-97. | 1.6 | 12 |
| 93 | Ionization and electric field properties of auroral arcs during magnetic quiescence. Journal of Geophysical Research, 1990, 95, 21111-21121. | 3.3 | 11 |
| 94 | Observations of Earth space by self-powered stations in Antarctica. Review of Scientific Instruments, 2009, 80, 124501. | 1.3 | 11 |
| 95 | Reply to comment by Harald U. Frey on "Substorm triggering by new plasma intrusion: THEMIS allâ€sky imager observations― Journal of Geophysical Research, 2010, 115, . | 3.3 | 11 |
| 96 | Fullâ€kinetic elve model simulations and their comparisons with the ISUAL observed events. Journal of Geophysical Research, 2012, 117, . | 3.3 | 11 |
| 97 | Color Ratios of Subauroral (STEVE) Arcs. Journal of Geophysical Research: Space Physics, 2019, 124, 5945-5955. | 2.4 | 11 |
| 98 | First ICONâ€FUV Nighttime NmF2 and hmF2 Comparison to Ground and Spaceâ€Based Measurements. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029360. | 2.4 | 11 |
| 99 | The 762 nm emissions of sprites. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 10 |
| 100 | Observing the magnetosphere through global auroral imaging: 2. Observing techniques. Journal of Geophysical Research: Space Physics, 2016, 121, 10,638. | 2.4 | 10 |
| 101 | Dayside auroral dynamics: South Pole - AMPTE/CCE observations. Journal of Geophysical Research, 1998, 103, 6891-6897. | 3.3 | 9 |
| 102 | Coordinated observation of the dayside magnetospheric entry and exit of the THEMIS satellites with groundâ€based auroral imaging in Antarctica. Journal of Geophysical Research, 2009, 114, . | 3.3 | 9 |
| 103 | Topside Plasma Flows in the Equatorial Ionosphere and Their Relationships to Fâ€Region Winds Near 250Âkm. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 9 |
| 104 | <title>Optical design of the FUV spectrographic imager for the IMAGE mission</title> . , 1997, , . | | 8 |
| 105 | Trapped and precipitating protons in the inner magnetosphere as seen by IMAGE. Journal of Geophysical Research, 2004, 109, . | 3.3 | 8 |
| 106 | Observing the magnetosphere through global auroral imaging: 1. Observables. Journal of Geophysical Research: Space Physics, 2016, 121, 10,623. | 2.4 | 8 |
| 107 | Substorm effects in auroral spectra. Journal of Geophysical Research, 1973, 78, 7515-7520. | 3.3 | 7 |
| 108 | Combined in situ and remote sensing of ionospheric ion outflow. Geophysical Research Letters, 2006, 33, . | 4.0 | 7 |

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| 109 | Conjugate observations of ENA signals in the highâ€altitude cusp and proton auroral spot in the lowâ€altitude cusp with IMAGE spacecraft. Geophysical Research Letters, 2008, 35, . | 4.0 | 7 |
| 110 | Azimuthal auroral expansion associated with fast flows in the near-Earth plasma sheet: Coordinated observations of the THEMIS all-sky imagers and multiple spacecraft. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 7 |
| 111 | The leading role of atomic oxygen in the collocation of elves and hydroxyl nightglow in the lowâ€latitude mesosphere. Journal of Geophysical Research: Space Physics, 2017, 122, 5550-5567. | 2.4 | 7 |
| 112 | First Results From the Retrieved Column O/N ₂ Ratio From the Ionospheric Connection Explorer (ICON): Evidence of the Impacts of Nonmigrating Tides. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029575. | 2.4 | 7 |
| 113 | Statistics of the longitudinal splitting of proton aurora during substorms. Journal of Geophysical Research, 2011, 116, n/a-n/a. | 3.3 | 6 |
| 114 | Time-Delay Integration Imaging with ICON's Far-Ultraviolet Imager. Space Science Reviews, 2017, 212, 715-730. | 8.1 | 5 |
| 115 | Effects of Substorms on Highâ€Latitude Upper Thermospheric Winds. Journal of Geophysical Research: Space Physics, 2021, 126, e2020JA028193. | 2.4 | 5 |
| 116 | Conjugate Photoelectron Energy Spectra Derived From Coincident FUV and Radio Measurements. Geophysical Research Letters, 2021, 48, . | 4.0 | 5 |
| 117 | Plasma pressure generated auroral current system: A case study. Geophysical Research Letters, 2012, 39, . | 4.0 | 4 |
| 118 | Daily Variability in the Terrestrial UV Airglow. Atmosphere, 2020, 11, 1046. | 2.3 | 4 |
| 119 | Effects of Subauroral Polarization Streams on the Upper Thermospheric Winds During Nonâ€&torm Time. Journal of Geophysical Research: Space Physics, 2022, 127, . | 2.4 | 4 |
| 120 | <title>Optical calibration of the FUV spectrographic imager for the IMAGE mission</title> . , 1999, 3765, 508. | | 3 |
| 121 | Proton auroral intensifications and injections at synchronous altitude. Geophysical Research Letters, 2006, 33, . | 4.0 | 3 |
| 122 | Optical design and optical properties of a VUV spectrographic imager for ICON mission. Proceedings of SPIE, 2016, , . | 0.8 | 3 |
| 123 | Identifying the evolution of Southern Hemisphere poleward moving auroral forms (PMAFs) in the context of plasma convection and magnetic reconnection. Journal of Geophysical Research: Space Physics, 2017, 122, 4037-4050. | 2.4 | 3 |
| 124 | <title>Alignment and performances of the FUV Spectrographic Imager for the IMAGE mission</title> . , 1998, , . | | 2 |
| 125 | Reply to comment by Rae et al. on "Formation of substorm Pi2: A coherent response to auroral streamers and currentsâ€. Journal of Geophysical Research: Space Physics, 2013, 118, 3497-3499. | 2.4 | 2 |
| 126 | Calibration and testing of wideâ€field UV instruments. Journal of Geophysical Research: Space Physics, 2017, 122, 6907-6921. | 2.4 | 2 |

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|-----|---|-----|-----------|
| 127 | Simultaneous Observations of Polewardâ€Moving Auroral Forms at the Equatorward and Poleward Boundaries ofÂthe Auroral Oval in Antarctica. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027646. | 2.4 | 2 |
| 128 | Experimental Validation of N2 Emission Ratios in Altitude Profiles of Observed Sprites. Frontiers in Earth Science, 2021, 9, . | 1.8 | 2 |
| 129 | Auroral imaging from a spinning satellite. Review of Scientific Instruments, 2011, 82, 013102. | 1.3 | 1 |
| 130 | Alignment and calibration of the ICON-FUV instrument: development of a vacuum UV facility. , 2016, , . | | 1 |
| 131 | VUV optical ground system equipment and its application to the ICON FUV flight grating characterization and selection. Proceedings of SPIE, 2016, , . | 0.8 | 1 |
| 132 | ISUAL multi-band observations of elves. , 2011, , . | | 0 |