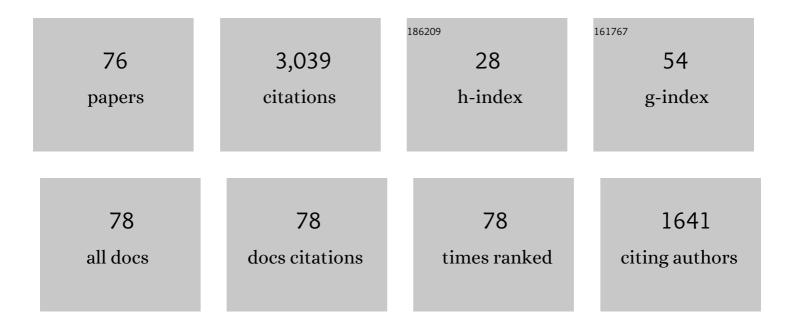
## Miguel F Larsen

List of Publications by Year in descending order

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#	Article	IF	CITATIONS
1	Gradient Winds and Neutral Flow Dawnâ€Dusk Asymmetry in the Auroral Oval During Geomagnetically Disturbed Conditions. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	2
2	Validation of Multistatic Meteor Radar Analysis Using Modeled Mesospheric Dynamics: An Assessment of the Reliability of Gradients and Vertical Velocities. Journal of Geophysical Research D: Atmospheres, 2022, 127, .	1.2	1
3	Dual Sounding Rocket and C/NOFS Satellite Observations of DC Electric Fields and Plasma Density in the Equatorial E―and Fâ€Region Ionosphere at Sunset. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	4
4	A Study of Post‣unset Spreadâ€F Initiation During the 2013 EVEX Campaign. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	1
5	Mesoscale Spatial Variability of Lower Thermospheric Winds During the Anomalous Transport Rocket Experiment. Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	2
6	Resolving Vertical Variations of Horizontal Neutral Winds in Earth's High Latitude Spaceâ€Atmosphere Interaction Region (SAIR). Journal of Geophysical Research: Space Physics, 2022, 127, .	0.8	3
7	Cloud Formation From a Localized Water Release in the Upper Mesosphere: Indication of Rapid Cooling. Journal of Geophysical Research: Space Physics, 2021, 126, e2019JA027285.	0.8	7
8	VHF Imaging Radar Observations and Theory of Banded Midlatitude Sporadic <i>E</i> Ionization Layers. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029257.	0.8	4
9	An Investigation of Auroral E Region Energy Exchange Using Poker Flat Incoherent Scatter Radar Observations During Fall Equinox Conditions. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029371.	0.8	4
10	Daytime Dynamo Electrodynamics With Spiral Currents Driven by Strong Winds Revealed by Vapor Trails and Sounding Rocket Probes. Geophysical Research Letters, 2020, 47, e2020GL088803.	1.5	12
11	Equatorial F â€Region Plasma Waves and Instabilities Observed Near Midnight at Solar Minimum During the NASA Too WINDY Sounding Rocket Experiment. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028408.	0.8	0
12	In Situ Observations of Neutral Shear Instability in the Statically Stable High‣atitude Mesosphere and Lower Thermosphere During Quiet Geomagnetic Conditions. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027972.	0.8	7
13	Radar Investigation of Postsunset Equatorial Ionospheric Instability Over Kwajalein During Project WINDY. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA027997.	0.8	7
14	Major upwelling and overturning in the mid-latitude F region ionosphere. Nature Communications, 2018, 9, 3326.	5.8	32
15	Simultaneous FPI and TMA Measurements of the Lower Thermospheric Wind in the Vicinity of the Poleward Expanding Aurora After Substorm Onset. Journal of Geophysical Research: Space Physics, 2017, 122, 10,864.	0.8	3
16	Comparisons of JOULE 1 rocket thermospheric wind observations in high latitudes with GITM simulations. Science China Technological Sciences, 2017, 60, 412-418.	2.0	0
17	Smallâ€scale fluctuations in barium drifts at high latitudes and associated Joule heating effects. Journal of Geophysical Research: Space Physics, 2016, 121, 779-789.	0.8	6
18	Equatorial <i>F</i> region neutral winds and shears near sunset measured with chemical release techniques. Journal of Geophysical Research: Space Physics, 2015, 120, 9004-9013.	0.8	6

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19	High time and height resolution neutral wind profile measurements across the mesosphere/lower thermosphere region using the Arecibo incoherent scatter radar. Journal of Geophysical Research: Space Physics, 2014, 119, 2345-2358.	0.8	23
20	Wind measurements: Trimethyl aluminum (TMA) chemical release technique. , 2013, , 47-51.		3
21	Vertical winds in the thermosphere. Journal of Geophysical Research, 2012, 117, .	3.3	34
22	Highâ€latitude <i>E</i> region ionosphereâ€thermosphere coupling: A comparative study using in situ and incoherent scatter radar observations. Journal of Geophysical Research, 2012, 117, .	3.3	11
23	Ground and Space-Based Measurement of Rocket Engine Burns in the Ionosphere. IEEE Transactions on Plasma Science, 2012, 40, 1267-1286.	0.6	58
24	Dynamic instability in the lower thermosphere inferred from irregular sporadic <i>E</i> layers. Journal of Geophysical Research, 2012, 117, .	3.3	18
25	The Horizontal E-region Experiment: Evidence for inertial instability on the evening side of the auroral oval?. Geophysical Research Letters, 2011, 38, n/a-n/a.	1.5	3
26	Optical Emissions Observed During the Charged Aerosol Release Experiment (CARE I) in the Ionosphere. IEEE Transactions on Plasma Science, 2011, 39, 2774-2775.	0.6	20
27	Estimates of vertical eddy diffusivity in the upper mesosphere in the presence of a mesospheric inversion layer. Annales Geophysicae, 2011, 29, 2019-2029.	0.6	17
28	In-situ observations of high-latitude thermosphere-mesosphere turbulence. AIP Conference Proceedings, 2011, , .	0.3	1
29	The Turbopause experiment: atmospheric stability and turbulent structure spanning the turbopause altitude. Annales Geophysicae, 2011, 29, 2327-2339.	0.6	19
30	Overturning instability in the mesosphere and lower thermosphere: analysis of instability conditions in lidar data. Annales Geophysicae, 2009, 27, 2937-2945.	0.6	5
31	Twoâ€dimensional turbulence, space shuttle plume transport in the thermosphere, and a possible relation to the Great Siberian Impact Event. Geophysical Research Letters, 2009, 36, .	1.5	28
32	Sporadic <i>E</i> layer observations over Arecibo using coherent and incoherent scatter radar: Assessing dynamic stability in the lower thermosphere. Journal of Geophysical Research, 2009, 114, .	3.3	46
33	Rocketâ€based measurements of ion velocity, neutral wind, and electric field in the collisional transition region of the auroral ionosphere. Journal of Geophysical Research, 2009, 114, .	3.3	39
34	Accuracy issues of the existing thermospheric wind models: can we rely on them in seeking solutions to wind-driven problems?. Annales Geophysicae, 2009, 27, 2277-2284.	0.6	22
35	An empirical model of the Earth's horizontal wind fields: HWM07. Journal of Geophysical Research, 2008, 113, .	3.3	448
36	First measurements of neutral wind and turbulence in the mesosphere and lower thermosphere over Taiwan with a chemical release experiment. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	22

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37	Imaging coherent scatter radar, incoherent scatter radar, and optical observations of quasiperiodic structures associated with sporadicElayers. Journal of Geophysical Research, 2007, 112, n/a-n/a.	3.3	36
38	New observations of artificial aurora associated with TMA releases. Geophysical Research Letters, 2006, 33, .	1.5	1
39	The HEX experiment: Determination of the neutral wind field from 120 to 185 km altitude near a stable premidnight auroral arc by triangulating the drift of rocket-deployed chemical trails. Journal of Geophysical Research, 2006, 111, .	3.3	8
40	Arecibo observations of ionospheric perturbations associated with the passage of Tropical Storm Odette. Journal of Geophysical Research, 2006, 111, .	3.3	58
41	Observations of colocated optical and radar aurora. Journal of Geophysical Research, 2006, 111, .	3.3	18
42	Shear flow effects at the onset of equatorial spreadF. Journal of Geophysical Research, 2006, 111, .	3.3	21
43	Rocket and radar investigation of background electrodynamics and bottom-type scattering layers at the onset of equatorial spread <i>F</i> . Annales Geophysicae, 2006, 24, 1387-1400.	0.6	39
44	Observations of neutral winds, wind shears, and wave structure during a sporadic- <i>E</i> /QP event. Annales Geophysicae, 2005, 23, 2369-2375.	0.6	44
45	Sequential observations of the local neutral wind field structure associated with E region plasma layers. Journal of Geophysical Research, 2005, 110, .	3.3	14
46	The 30 MHz imaging radar observations of auroral irregularities during the JOULE campaign. Journal of Geophysical Research, 2005, 110, .	3.3	46
47	Onset conditions for equatorial spreadFdetermined during EQUIS II. Geophysical Research Letters, 2005, 32, .	1.5	50
48	Common volume coherent and incoherent scatter radar observations of mid-latitude sporadic E-layers and QP echoes. Annales Geophysicae, 2004, 22, 3277-3290.	0.6	76
49	Airglow emissions and oxygen mixing ratios from the photometer experiment on the Turbulent Oxygen Mixing Experiment (TOMEX). Journal of Geophysical Research, 2004, 109, .	3.3	15
50	Unstable layers in the mesopause region observed with Na lidar during the Turbulent Oxygen Mixing Experiment (TOMEX) campaign. Journal of Geophysical Research, 2004, 109, .	3.3	50
51	Observations of overturning in the upper mesosphere and lower thermosphere. Journal of Geophysical Research, 2004, 109, .	3.3	29
52	TOMEX: Mesospheric and lower thermospheric diffusivities and instability layers. Journal of Geophysical Research, 2004, 109, .	3.3	38
53	An overview of observations of unstable layers during the Turbulent Oxygen Mixing Experiment (TOMEX). Journal of Geophysical Research, 2004, 109, .	3.3	30
54	TOMEX: A comparison of lidar and sounding rocket chemical tracer wind measurements. Geophysical Research Letters, 2003, 30, .	1.5	20

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55	Winds and shears in the mesosphere and lower thermosphere: Results from four decades of chemical release wind measurements. Journal of Geophysical Research, 2002, 107, SIA 28-1-SIA 28-14.	3.3	199
56	Auroral emissions due to a dusty plasma instability. AIP Conference Proceedings, 2000, , .	0.3	0
57	Coqui 2: Mesospheric and lower thermospheric wind observations over Puerto Rico. Geophysical Research Letters, 2000, 27, 445-448.	1.5	30
58	Observations of QP radar echo structure consistent with neutral wind shear control of the initiation mechanism. Geophysical Research Letters, 2000, 27, 867-870.	1.5	14
59	A shear instability seeding mechanism for quasiperiodic radar echoes. Journal of Geophysical Research, 2000, 105, 24931-24940.	3.3	148
60	The SEEK Chemical Release Experiment: Observed neutral wind profile in a region of sporadic E. Geophysical Research Letters, 1998, 25, 1789-1792.	1,5	65
61	JULIA radar studies of electric fields in the equatorial electrojet. Geophysical Research Letters, 1997, 24, 1687-1690.	1.5	46
62	Observations of altitudinal and latitudinal E-region neutral wind gradients near sunset at the magnetic equator. Geophysical Research Letters, 1997, 24, 1711-1714.	1.5	22
63	The Guará Campaign: A series of rocket-radar investigations of the Earth's upper atmosphere at the magnetic equator. Geophysical Research Letters, 1997, 24, 1663-1666.	1.5	28
64	Observations of unstable atmospheric shear layers in the lowerEregion in the post-midnight auroral oval. Geophysical Research Letters, 1997, 24, 1915-1918.	1.5	23
65	ERegion neutral winds in the postmidnight diffuse aurora during the atmospheric response in Aurora 1 Rocket Campaign. Journal of Geophysical Research, 1995, 100, 17309.	3.3	20
66	Modified geostrophy in the thermosphere. Journal of Geophysical Research, 1995, 100, 17321.	3.3	28
67	Atmospheric Response in Aurora experiment: Observations ofEandFregion neutral winds in a region of postmidnight diffuse aurora. Journal of Geophysical Research, 1995, 100, 17299.	3.3	28
68	First observations of precipitation with a spatial interferometer. Geophysical Research Letters, 1992, 19, 2409-2412.	1,5	5
69	Frequency domain interferometry observations of tropo/stratospheric scattering layers using the MU radar: Description and first results. Geophysical Research Letters, 1990, 17, 2189-2192.	1.5	22
70	Simultaneous observations of neutral winds and electric fields at spaced locations in the dawn auroral oval. Journal of Geophysical Research, 1989, 94, 17235-17243.	3.3	33
71	A simple model describing the nonlinear dynamics of the dusk/dawn asymmetry in the highâ€latitude thermospheric flow. Geophysical Research Letters, 1988, 15, 307-310.	1.5	21
72	The prereversal enhancement of the zonal electric field in the equatorial ionosphere. Journal of Geophysical Research, 1986, 91, 13723-13728.	3.3	324

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73	The dynamic response of the highâ€latitude thermosphere and geostrophic adjustment. Journal of Geophysical Research, 1983, 88, 3158-3168.	3.3	52
74	Neutral winds and electric fields in the dusk auroral oval 1. Measurements. Journal of Geophysical Research, 1981, 86, 1513-1524.	3.3	64
75	Neutral winds and electric fields in the dusk auroral oval 2. Theory and model. Journal of Geophysical Research, 1981, 86, 1525-1536.	3.3	30
76	Gravity wave initiation of equatorial spread F: A case study. Journal of Geophysical Research, 1981, 86, 9087-9100.	3.3	326