

# M R Lessard

## List of Publications by Year in descending order

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79  
papers

1,921  
citations

218381

26  
h-index

288905

40  
g-index

80  
all docs

80  
docs citations

80  
times ranked

1301  
citing authors

#	ARTICLE	IF	CITATIONS
1	Statistical Study of EMIC Wave Propagation Using Space-Ground Conjugate Observations. <i>Journal of Geophysical Research: Space Physics</i> , 2022, 127, .	0.8	6
2	Observations of Particle Loss due to Injection-Associated Electromagnetic Ion Cyclotron Waves. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2020JA028503.	0.8	11
3	Magnetic Conjugacy of Pc1 Waves and Isolated Proton Precipitation at Subauroral Latitudes: Importance of Ionosphere as Intensity Modulation Region. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091384.	1.5	10
4	Observations of sunlit N<sub>2</sub> and O<sub>2</sub> aurora at high altitudes during the RENU2 flight. <i>Annales Geophysicae</i> , 2021, 39, 849-859.	0.6	1
5	Examining the Auroral Ionosphere in Three Dimensions Using Reconstructed 2D Maps of Auroral Data to Drive the 3D GEMINI Model. <i>Journal of Geophysical Research: Space Physics</i> , 2021, 126, e2021JA029749.	0.8	3
6	Rocket Investigation of Current Closure in the Ionosphere (RICCI): A novel application of CubeSats from a sounding rocket platform. <i>Advances in Space Research</i> , 2020, 66, 98-106.	1.2	1
7	Overview of the Rocket Experiment for Neutral Upwelling Sounding Rocket 2 (RENU2). <i>Geophysical Research Letters</i> , 2020, 47, e2018GL081885.	1.5	7
8	RENU2 UV PMT Observations of the Cusp. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL082314.	1.5	2
9	A New Technique for Estimating the Lifetime of Bursts of Electron Precipitation From Sounding Rocket Measurements. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL082894.	1.5	2
10	Auroral ionospheric plasma flow extraction using subsonic retarding potential analyzers. <i>Review of Scientific Instruments</i> , 2020, 91, 094503.	0.6	6
11	Diffuse and Pulsating Aurora. <i>Space Science Reviews</i> , 2020, 216, 1.	3.7	69
12	Generation of EMIC Waves and Effects on Particle Precipitation During a Solar Wind Pressure Intensification With $B_z < 0$ . <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 4492-4508.	0.8	17
13	Dayside Aurora. <i>Space Science Reviews</i> , 2019, 215, 1.	3.7	29
14	Low-noise permalloy ring cores for fluxgate magnetometers. <i>Geoscientific Instrumentation, Methods and Data Systems</i> , 2019, 8, 227-240.	0.6	22
15	Transient Ionospheric Upflow Driven by Poleward Moving Auroral forms Observed During the Rocket Experiment for Neutral Upwelling 2 (RENU2) Campaign. <i>Geophysical Research Letters</i> , 2019, 46, 6297-6305.	1.5	4
16	Two-Dimensional Maps of In Situ Ionospheric Plasma Flow Data Near Auroral Arcs Using Auroral Imagery. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3036-3056.	0.8	12
17	Comparison of Multiple and Logistic Regression Analyses of Relativistic Electron Flux Enhancement at Geosynchronous Orbit Following Storms. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 10246-10256.	0.8	4
18	Comparison of Relativistic Microburst Activity Seen by SAMPEX With Ground-Based Wave Measurements at Halley, Antarctica. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 1279-1294.	0.8	15

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19	ELF Whistler Dependence on a Sunlit Ionosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3955-3964.	0.8	0
20	EMIC Wave Events During the Four GEM QARBM Challenge Intervals. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 6394-6423.	0.8	20
21	MMS, Van Allen Probes, GOES 13, and Ground-Based Magnetometer Observations of EMIC Wave Events Before, During, and After a Modest Interplanetary Shock. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 8331-8357.	0.8	30
22	A Distributed Lag Autoregressive Model of Geostationary Relativistic Electron Fluxes: Comparing the Influences of Waves, Seed and Source Electrons, and Solar Wind Inputs. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3646-3671.	0.8	20
23	In situ statistical observations of Pc1 pearl pulsations and unstructured EMIC waves by the Van Allen Probes. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 105-119.	0.8	25
24	Conjugate observations of electromagnetic ion cyclotron waves associated with traveling convection vortex events. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7336-7352.	0.8	7
25	Fast-moving diffuse auroral patches: A new aspect of daytime Pc3 auroral pulsations. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 1542-1554.	0.8	5
26	Simultaneous observations of traveling convection vortices: Ionosphere-thermosphere coupling. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 4943-4959.	0.8	10
27	Including sheath effects in the interpretation of planar retarding potential analyzer's low-energy ion data. <i>Review of Scientific Instruments</i> , 2016, 87, 043504.	0.6	16
28	Rocket-borne measurements of electron temperature and density with the Electron Retarding Potential Analyzer instrument. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 6774-6782.	0.8	8
29	Measuring the seeds of ion outflow: Auroral sounding rocket observations of low-altitude ion heating and circulation. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 1587-1607.	0.8	19
30	Confirmation of EMIC wave-driven relativistic electron precipitation. <i>Journal of Geophysical Research: Space Physics</i> , 2016, 121, 5366-5383.	0.8	43
31	Development of Ground-Based Search-Coil Magnetometer for Near-Earth Space Research. <i>Journal of Magnetism</i> , 2016, 21, 509-515.	0.2	4
32	Structure of black aurora associated with pulsating aurora. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 10096-10106.	0.8	4
33	Ion upflow dependence on ionospheric density and solar photoionization. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 10039-10052.	0.8	16
34	Correlated Pc4-5 ULF waves, whistler-mode chorus, and pulsating aurora observed by the Van Allen Probes and ground-based systems. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 8749-8761.	0.8	50
35	Van Allen probes, NOAA, GOES, and ground observations of an intense EMIC wave event extending over 12 h in magnetic local time. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5465-5488.	0.8	127
36	Electron precipitation from EMIC waves: A case study from 31 May 2013. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 3618-3631.	0.8	65

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37	Solar cycle dependence of ion cyclotron wave frequencies. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 4711-4718.	0.8	5
38	MICA sounding rocket observations of conductivityâ€gradientâ€generated auroral ionospheric responses: Smallâ€scale structure with largeâ€scale drivers. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 9661-9682.	0.8	34
39	Fast Auroral Imager (FAI) for the e-POP Mission. <i>Space Science Reviews</i> , 2015, 189, 15-25.	3.7	17
40	Auroral ionospheric <i>F</i> region density cavity formation and evolution: MICA campaign results. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 3162-3178.	0.8	32
41	Investigating the IMF cone angle control of Pc3â€4 pulsations observed on the ground. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 1797-1813.	0.8	27
42	In situ observations of Pc1 pearl pulsations by the Van Allen Probes. <i>Geophysical Research Letters</i> , 2014, 41, 1823-1829.	1.5	28
43	Pulsating auroral electron flux modulations in the equatorial magnetosphere. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 4884-4894.	0.8	46
44	Multiâ€instrument observations from Svalbard of a traveling convection vortex, electromagnetic ion cyclotron wave burst, and proton precipitation associated with a bow shock instability. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2975-2997.	0.8	38
45	Simultaneous traveling convection vortex events and Pc1 wave bursts at cusp latitudes observed in Arctic Canada and Svalbard. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6352-6363.	0.8	6
46	Auroral Current and Electrodynamics Structure (ACES) observations of ionospheric feedback in the AlfvÃ©n resonator and model responses. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 3288-3296.	0.8	19
47	Persistent, widespread pulsating aurora: A case study. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 2998-3006.	0.8	40
48	Cluster observations of bandâ€limited Pc 1 waves associated with streaming H<sup>+</sup> and O<sup>+</sup> ions in the highâ€altitude plasma mantle. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	7
49	Spectral enhancements associated with Pi1B events observed at high latitude. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	1
50	Auroral precipitation/ion upwelling as a driver of neutral density enhancement in the cusp. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2012, 87-88, 82-90.	0.6	24
51	Structure and dynamics of the nightside poleward boundary: Sounding rocket and groundâ€based observations of auroral electron precipitation in a rayed curtain. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	14
52	Pi1B propagation in the highâ€latitude ionosphere. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	2
53	Upstreamâ€generated Pc3 ULF wave signatures observed near the Earth's cusp. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	8
54	Electron temperature in the cusp as measured with the SCIFERâ€2 sounding rocket. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	7

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55	Pi1B pulsations as a possible driver of Alfvénic aurora at substorm onset. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	17
56	Large-scale aspects and temporal evolution of pulsating aurora. Journal of Geophysical Research, 2011, 116, .	3.3	47
57	Statistical study of Pc1-2 wave propagation characteristics in the high-latitude ionospheric waveguide. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	41
58	Sounding rocket study of two sequential auroral poleward boundary intensifications. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	12
59	A laboratory experiment to examine the effect of auroral beams on spacecraft charging in the ionosphere. Physics of Plasmas, 2011, 18, 092905.	0.7	10
60	Ducting characteristics of Pc 1 waves at high latitudes on the ground and in space. Journal of Geophysical Research, 2010, 115, .	3.3	42
61	Probing the relationship between electromagnetic ion cyclotron waves and plasmaspheric plumes near geosynchronous orbit. Journal of Geophysical Research, 2010, 115, .	3.3	31
62	Fine structures and dynamics in auroral initial brightening at substorm onsets. Annales Geophysicae, 2009, 27, 623-630.	0.6	47
63	PFISR and ROPA observations of pulsating aurora. Journal of Atmospheric and Solar-Terrestrial Physics, 2009, 71, 708-716.	0.6	37
64	Searching for ULF signatures of the cusp: Observations from search coil magnetometers and auroral imagers in Svalbard. Journal of Geophysical Research, 2009, 114, .	3.3	15
65	PENGUIn multi-instrument observations of dayside high-latitude injections during the 23 March 2007 substorm. Journal of Geophysical Research, 2009, 114, .	3.3	8
66	Pc1-Pc2 waves and energetic particle precipitation during and after magnetic storms: Superposed epoch analysis and case studies. Journal of Geophysical Research, 2008, 113, .	3.3	96
67	Temporal and spatial characteristics of Pc1 waves observed by ST5. Journal of Geophysical Research, 2008, 113, .	3.3	55
68	Solar Modal Structure of the Engineering Environment. Proceedings of the IEEE, 2007, 95, 1085-1132.	16.4	43
69	Ground and satellite observations of the evolution of growth phase auroral arcs. Journal of Geophysical Research, 2007, 112, .	3.3	28
70	Statistical observations of spatial characteristics of Pi1B pulsations. Journal of Atmospheric and Solar-Terrestrial Physics, 2007, 69, 1775-1796.	0.6	23
71	Narrow-band extremely low frequency (ELF) wave phenomena observed at South Pole Station. Geophysical Research Letters, 2006, 33, .	1.5	4
72	Nature of Pi1B pulsations as inferred from ground and satellite observations. Geophysical Research Letters, 2006, 33, .	1.5	41

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73	The outer radiation belt injection, transport, acceleration and loss satellite (ORBITALS): A canadian small satellite mission for ILWS. <i>Advances in Space Research</i> , 2006, 38, 1838-1860.	1.2	16
74	Pc 1 waves and associated unstable distributions of magnetospheric protons observed during a solar wind pressure pulse. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	62
75	A study of Pc-5 ULF oscillations. <i>Annales Geophysicae</i> , 2004, 22, 289-302.	0.6	71
76	Ionospheric reflection of small-scale Alfvén waves. <i>Geophysical Research Letters</i> , 2001, 28, 3573-3576.	1.5	49
77	Compressional Pc5 type pulsations in the morningside plasma sheet. <i>Annales Geophysicae</i> , 2001, 19, 311-320.	0.6	22
78	A Review of Pulsating Aurora. <i>Geophysical Monograph Series</i> , 0, , 55-68.	0.1	57
79	A Calibration Source for Low Energy Electron Detectors. <i>Geophysical Monograph Series</i> , 0, , 301-306.	0.1	2