

# Mark D Looper

## List of Publications by Year in descending order

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75  
papers

3,860  
citations

136950

32  
h-index

123424

61  
g-index

75  
all docs

75  
docs citations

75  
times ranked

2226  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Magnetic Electron Ion Spectrometer (MagEIS) Instruments Aboard the Radiation Belt Storm Probes (RBSP) Spacecraft. <i>Space Science Reviews</i> , 2013, 179, 383-421.	8.1	491
2	Multisatellite observations of the outer zone electron variation during the November 3 <sup>rd</sup> , 1993, magnetic storm. <i>Journal of Geophysical Research</i> , 1997, 102, 14123-14140.	3.3	274
3	Energization of relativistic electrons in the presence of ULF power and MeV microbursts: Evidence for dual ULF and VLF acceleration. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	242
4	Proton, helium, and electron spectra during the large solar particle events of October-November 2003. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	187
5	Quantification of relativistic electron microburst losses during the GEM storms. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	158
6	Long term measurements of radiation belts by SAMPEX and their variations. <i>Geophysical Research Letters</i> , 2001, 28, 3827-3830.	4.0	154
7	Energy Spectra, Composition, and Other Properties of Ground-Level Events During Solar Cycle 23. <i>Space Science Reviews</i> , 2012, 171, 97-120.	8.1	139
8	CRaTER: The Cosmic Ray Telescope for the Effects of Radiation Experiment on the Lunar Reconnaissance Orbiter Mission. <i>Space Science Reviews</i> , 2010, 150, 243-284.	8.1	123
9	New high temporal and spatial resolution measurements by SAMPEX of the precipitation of relativistic electrons. <i>Advances in Space Research</i> , 1996, 18, 171-186.	2.6	113
10	Are energetic electrons in the solar wind the source of the outer radiation belt?. <i>Geophysical Research Letters</i> , 1997, 24, 923-926.	4.0	110
11	A theoretical model of the inner proton radiation belt. <i>Space Weather</i> , 2007, 5, n/a-n/a.	3.7	108
12	Relativistic electron microbursts during the GEM storms. <i>Geophysical Research Letters</i> , 2001, 28, 2573-2576.	4.0	95
13	Charge states of solar energetic particles using the geomagnetic cutoff technique: SAMPEX measurements in the 6 November 1997 solar particle event. <i>Geophysical Research Letters</i> , 1999, 26, 173-176.	4.0	89
14	The Ionic Charge of Solar Energetic Particles with Energies of 0.3 <sup>rd</sup> to 70 MeV per Nucleon. <i>Astrophysical Journal</i> , 1997, 477, 495-501.	4.5	87
15	Global MHD test particle simulations of >10 MeV radiation belt electrons during storm sudden commencement. <i>Journal of Geophysical Research</i> , 2007, 112, .	3.3	84
16	A background correction algorithm for Van Allen Probes MagEIS electron flux measurements. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 5703-5727.	2.4	78
17	Multisatellite observations of MeV ion injections during storms. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 7-1.	3.3	73
18	Radiation Hardness of $\text{TiO}_2$ Memristive Junctions. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 1640-1643.	2.0	67

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19	Response of the inner radiation belt to the violent Sun-Earth connection events of October–November 2003. <i>Geophysical Research Letters</i> , 2005, 32, .	4.0	65
20	First results from CSSWE CubeSat: Characteristics of relativistic electrons in the near-Earth environment during the October 2012 magnetic storms. <i>Journal of Geophysical Research: Space Physics</i> , 2013, 118, 6489-6499.	2.4	65
21	Charge State Measurements of Solar Energetic Particles Observed with SAMPEX. <i>Astrophysical Journal</i> , 1995, 452, 901.	4.5	64
22	Quantification of the precipitation loss of radiation belt electrons observed by SAMPEX. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	61
23	Observation of relativistic electron microbursts in conjunction with intense radiation belt whistler-mode waves. <i>Geophysical Research Letters</i> , 2011, 38, n/a-n/a.	4.0	61
24	Charge state of anomalous cosmic-ray nitrogen, oxygen, and neon: SAMPEX observations. <i>Astrophysical Journal</i> , 1995, 442, L69.	4.5	50
25	Understanding large SEP events with the PATH code: Modeling of the 13 December 2006 SEP event. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	49
26	New measurements of total ionizing dose in the lunar environment. <i>Space Weather</i> , 2011, 9, .	3.7	45
27	Update on the Worsening Particle Radiation Environment Observed by CRaTER and Implications for Future Human Deep-Space Exploration. <i>Space Weather</i> , 2018, 16, 289-303.	3.7	44
28	Observations of the remnants of the ultrarelativistic electrons injected by the strong SSC of 24 March 1991. <i>Geophysical Research Letters</i> , 1994, 21, 2079-2082.	4.0	41
29	The hidden dynamics of relativistic electrons (0.7–1.5 MeV) in the inner zone and slot region. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 3127-3144.	2.4	38
30	The Relativistic Proton Spectrometer (RPS) for the Radiation Belt Storm Probes Mission. <i>Space Science Reviews</i> , 2013, 179, 221-261.	8.1	36
31	Energetic Charged Particles in the Magnetosphere of Neptune. <i>Science</i> , 1989, 246, 1489-1494.	12.6	35
32	A Revised Look at Relativistic Electrons in the Earth's Inner Radiation Zone and Slot Region. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 934-951.	2.4	32
33	Displacement Damage in TiO <sub>2</sub> Memristor Devices. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 1379-1383.	2.0	30
34	The radiation environment near the lunar surface: CRaTER observations and Geant4 simulations. <i>Space Weather</i> , 2013, 11, 142-152.	3.7	28
35	Relative contributions of galactic cosmic rays and lunar proton to dose and dose rates near the Moon. <i>Space Weather</i> , 2013, 11, 643-650.	3.7	26
36	Sampex observations of energetic hydrogen isotopes in the inner zone. <i>Radiation Measurements</i> , 1996, 26, 967-978.	1.4	25

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37	Signatures of volatiles in the lunar proton albedo. <i>Icarus</i> , 2016, 273, 25-35.	2.5	22
38	Analog and digital single-event effects experiments in space. <i>IEEE Transactions on Nuclear Science</i> , 2001, 48, 1841-1848.	2.0	19
39	Low-altitude distribution of radiation belt electrons. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	19
40	Measurements of galactic cosmic ray shielding with the CRaTER instrument. <i>Space Weather</i> , 2013, 11, 284-296.	3.7	19
41	Solar Energetic Proton Access to the Magnetosphere During the 10 <sup>th</sup> September 2017 Particle Event. <i>Space Weather</i> , 2018, 16, 2022-2037.	3.7	19
42	Anomalous cosmic ray argon and other rare elements at 1-4 MeV/nucleon trapped within the Earth's magnetosphere. <i>Journal of Geophysical Research</i> , 2000, 105, 21015-21023.	3.3	18
43	How Efficient are Coronal Mass Ejections at Accelerating Solar Energetic Particles?. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	18
44	The deep space galactic cosmic ray lineal energy spectrum at solar minimum. <i>Space Weather</i> , 2013, 11, 361-368.	3.7	18
45	The Magnetic Electron Ion Spectrometer: A Review of On-Orbit Sensor Performance, Data, Operations, and Science. <i>Space Science Reviews</i> , 2021, 217, 80.	8.1	18
46	Geomagnetically trapped antiprotons. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	16
47	Global MHD test particle simulations of solar energetic electron trapping in the Earth's radiation belts. <i>Journal of Atmospheric and Solar-Terrestrial Physics</i> , 2008, 70, 1727-1737.	1.6	16
48	Update on Radiation Dose From Galactic and Solar Protons at the Moon Using the LRO/CRaTER Microdosimeter. <i>Space Weather</i> , 2015, 13, 363-364.	3.7	16
49	SAMPEX observations of the South Atlantic anomaly secular drift during solar cycles 22 <sup>nd</sup> -24. <i>Space Weather</i> , 2017, 15, 44-52.	3.7	16
50	Maps of hydrogen isotopes at low altitudes in the inner zone from sampex observations. <i>Advances in Space Research</i> , 1998, 21, 1679-1682.	2.6	15
51	The first cosmic ray albedo proton map of the Moon. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	12
52	Radiation effects studies on thin film TiO <sub>2</sub> memristor devices. , 2013, , .		11
53	Diagnosis of ULF Wave-Particle Interactions With Megaelectron Volt Electrons: The Importance of Ultrahigh-Resolution Energy Channels. <i>Geophysical Research Letters</i> , 2018, 45, 10,883.	4.0	11
54	Trapped anomalous cosmic rays near the geomagnetic cutoff. <i>Journal of Geophysical Research</i> , 1996, 101, 24747-24753.	3.3	9

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55	Using proton radiation from the moon to search for diurnal variation of regolith hydrogenation. <i>Planetary and Space Science</i> , 2018, 162, 113-132.	1.7	9
56	On the use of drift echoes to characterize on-orbit sensor discrepancies. <i>Journal of Geophysical Research: Space Physics</i> , 2015, 120, 2076-2087.	2.4	8
57	Update on Galactic Cosmic Ray Integral Flux Measurements in Lunar Orbit With CRaTER. <i>Space Weather</i> , 2019, 17, 1011.	3.7	8
58	Solar modulation of the deep space galactic cosmic ray lineal energy spectrum measured by CRaTER, 2009-2014. <i>Space Weather</i> , 2016, 14, 247-258.	3.7	7
59	Ulysses observations of short-period (<math>\sim 30</math> Days) modulation of the galactic cosmic rays. <i>Geophysical Research Letters</i> , 1997, 24, 671-674.	4.0	6
60	Modulation of Jovian electrons at 1 AU during solar cycles 22-23. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	6
61	LEEM: A new empirical model of radiation belt electrons in the low Earth orbit region. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	6
62	Jovian, Solar, and other Possible Sources of Radiation Belt Particles. <i>Geophysical Monograph Series</i> , 0, , 49-55.	0.1	6
63	Absorbed doses from GCR and albedo particles emitted by the lunar surface. <i>Acta Astronautica</i> , 2020, 175, 185-189.	3.2	6
64	A model of the secondary radiation belt. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	5
65	Large anisotropies of >60 MeV protons throughout the inner belt observed with the Van Allen Probes mission. <i>Geophysical Research Letters</i> , 2014, 41, 3738-3743.	4.0	5
66	Large-Amplitude Whistler Waves and Electron Acceleration in the Earth's Radiation Belts: A Review of Stereo and Wind Observations. <i>Geophysical Monograph Series</i> , 0, , 41-52.	0.1	4
67	Using <sc>Polar</sc> Orbiting Environmental Satellite</sc> data to specify the radiation environment up to 1200 km altitude. <i>Space Weather</i> , 2015, 13, 434-445.	3.7	4
68	Long-Term Variations of Quasi-Trapped and Trapped Electrons in the Inner Radiation Belt Observed by DEMETER and SAMPEX. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2020JA028086.	2.4	4
69	Evidence for Energetic Neutral Hydrogen Emission from Solar Particle Events. <i>Astrophysical Journal</i> , 2021, 923, 195.	4.5	4
70	Statistical analysis of SAMPEX PET proton measurements. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000, 449, 378-382.	1.6	3
71	Precise Detections of Solar Particle Events and a New View of the Moon. <i>Geophysical Research Letters</i> , 2020, 47, e2019GL085522.	4.0	3
72	Long-Term Observations of Galactic Cosmic Ray LET Spectra in Lunar Orbit by LRO/CRaTER. <i>Space Weather</i> , 2020, 18, e2020SW002543.	3.7	3

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73	Characterization and Calibration of High-Energy Electron Instruments Onboard the Arase Satellite. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029110.	2.4	2
74	First On-Orbit Results from the AeroCube-10 Space Solar Cell Experiment. , 2020, , .		1
75	Modeling the Albedo Neutron Decay Source of Radiation Belt Electrons and Protons. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	1