

Mark D Looper

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/1544104/publications.pdf>

Version: 2024-02-01

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	Modeling the Albedo Neutron Decay Source of Radiation Belt Electrons and Protons. Journal of Geophysical Research: Space Physics, 2022, 127, .	2.4	1
2	Characterization and Calibration of High-Energy Electron Instruments Onboard the Arase Satellite. Journal of Geophysical Research: Space Physics, 2021, 126, e2021JA029110.	2.4	2
3	The Magnetic Electron Ion Spectrometer: A Review of On-Orbit Sensor Performance, Data, Operations, and Science. Space Science Reviews, 2021, 217, 80.	8.1	18
4	Evidence for Energetic Neutral Hydrogen Emission from Solar Particle Events. Astrophysical Journal, 2021, 923, 195.	4.5	4
5	Precise Detections of Solar Particle Events and a New View of the Moon. Geophysical Research Letters, 2020, 47, e2019GL085522.	4.0	3
6	Long-Term Variations of Quasi-Trapped and Trapped Electrons in the Inner Radiation Belt Observed by DEMETER and SAMPEX. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028086.	2.4	4
7	Long-Term Observations of Galactic Cosmic Ray LET Spectra in Lunar Orbit by LRO/CRaTER. Space Weather, 2020, 18, e2020SW002543.	3.7	3
8	Absorbed doses from GCR and albedo particles emitted by the lunar surface. Acta Astronautica, 2020, 175, 185-189.	3.2	6
9	First On-Orbit Results from the AeroCube-10 Space Solar Cell Experiment. , 2020, , .		1
10	Update on Galactic Cosmic Ray Integral Flux Measurements in Lunar Orbit With CRaTER. Space Weather, 2019, 17, 1011.	3.7	8
11	A Revised Look at Relativistic Electrons in the Earth's Inner Radiation Zone and Slot Region. Journal of Geophysical Research: Space Physics, 2019, 124, 934-951.	2.4	32
12	Update on the Worsening Particle Radiation Environment Observed by CRaTER and Implications for Future Human Deep-Space Exploration. Space Weather, 2018, 16, 289-303.	3.7	44
13	Using proton radiation from the moon to search for diurnal variation of regolith hydrogenation. Planetary and Space Science, 2018, 162, 113-132.	1.7	9
14	Diagnosis of ULF Wave-Particle Interactions With Megaelectron Volt Electrons: The Importance of Ultrahigh-Resolution Energy Channels. Geophysical Research Letters, 2018, 45, 10,883.	4.0	11
15	Solar Energetic Proton Access to the Magnetosphere During the 10 th 14 September 2017 Particle Event. Space Weather, 2018, 16, 2022-2037.	3.7	19
16	The hidden dynamics of relativistic electrons (0.7-1.5 MeV) in the inner zone and slot region. Journal of Geophysical Research: Space Physics, 2017, 122, 3127-3144.	2.4	38
17	SAMPEX observations of the South Atlantic anomaly secular drift during solar cycles 22-24. Space Weather, 2017, 15, 44-52.	3.7	16
18	Solar modulation of the deep space galactic cosmic ray lineal energy spectrum measured by CRaTER, 2009-2014. Space Weather, 2016, 14, 247-258.	3.7	7

#	ARTICLE	IF	CITATIONS
19	Signatures of volatiles in the lunar proton albedo. <i>Icarus</i> , 2016, 273, 25-35.	2.5	22
20	Using <scp>Polaris-orbiting Environmental Satellite</scp> data to specify the radiation environment up to 1200 km altitude. <i>Space Weather</i> , 2015, 13, 434-445.	3.7	4
21	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
22	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
23	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
24	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
25	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
26	The Relativistic Proton Spectrometer (RPS) for the Radiation Belt Storm Probes Mission. <i>Space Science Reviews</i> , 2013, 179, 221-261.	8.1	36
27	Displacement Damage in TiO ₂ Memristor Devices. <i>IEEE Transactions on Nuclear Science</i> , 2013, 60, 1379-1383.	2.0	30
28	Radiation effects studies on thin film TiO ₂ memristor devices. , 2013, , .		11
29	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
30	Measurements of galactic cosmic ray shielding with the CRaTER instrument. <i>Space Weather</i> , 2013, 11, 284-296.	3.7	19
31	Relative contributions of galactic cosmic rays and lunar proton albedo to dose and dose rates near the Moon. <i>Space Weather</i> , 2013, 11, 643-650.	3.7	26
32	The radiation environment near the lunar surface: CRaTER observations and Geant4 simulations. <i>Space Weather</i> , 2013, 11, 142-152.	3.7	28
33	The deep space galactic cosmic ray lineal energy spectrum at solar minimum. <i>Space Weather</i> , 2013, 11, 361-368.	3.7	18
34	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
35	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
36	The first cosmic ray albedo proton map of the Moon. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	12

#	ARTICLE	IF	CITATIONS
37	New measurements of total ionizing dose in the lunar environment. <i>Space Weather</i> , 2011, 9, .	3.7	45
38	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
39	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
40	Radiation Hardness of TiO_2 Memristive Junctions. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 1640-1643.	2.0	67
41	Quantification of the precipitation loss of radiation belt electrons observed by SAMPEX. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	61
42	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
43	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
44	A model of the secondary radiation belt. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	5
45	How Efficient are Coronal Mass Ejections at Accelerating Solar Energetic Particles?. <i>AIP Conference Proceedings</i> , 2008, , .	0.4	18
46	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
47	A theoretical model of the inner proton radiation belt. <i>Space Weather</i> , 2007, 5, n/a-n/a.	3.7	108
48	Geomagnetically trapped antiprotons. <i>Geophysical Research Letters</i> , 2007, 34, .	4.0	16
49	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
50	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
51	Quantification of relativistic electron microburst losses during the GEM storms. <i>Geophysical Research Letters</i> , 2004, 31, .	4.0	158
52	Low-altitude distribution of radiation belt electrons. <i>Journal of Geophysical Research</i> , 2004, 109, .	3.3	19
53	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
54	Modulation of Jovian electrons at 1 AU during solar cycles 22-23. <i>Geophysical Research Letters</i> , 2003, 30, .	4.0	6

#	ARTICLE	IF	CITATIONS
55	Multisatellite observations of MeV ion injections during storms. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 7-1.	3.3	73
56	Relativistic electron microbursts during the GEM storms. <i>Geophysical Research Letters</i> , 2001, 28, 2573-2576.	4.0	95
57	Long term measurements of radiation belts by SAMPEX and their variations. <i>Geophysical Research Letters</i> , 2001, 28, 3827-3830.	4.0	154
58	Analog and digital single-event effects experiments in space. <i>IEEE Transactions on Nuclear Science</i> , 2001, 48, 1841-1848.	2.0	19
59	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
60	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
61	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
62	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
63	Multisatellite observations of the outer zone electron variation during the November 3 rd , 1993, magnetic storm. <i>Journal of Geophysical Research</i> , 1997, 102, 14123-14140.	3.3	274
64	Ulysses observations of short-period (≈ 30 Days) modulation of the galactic cosmic rays. <i>Geophysical Research Letters</i> , 1997, 24, 671-674.	4.0	6
65	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
66	The Ionic Charge of Solar Energetic Particles with Energies of 0.3 \leq 70 MeV per Nucleon. <i>Astrophysical Journal</i> , 1997, 477, 495-501.	4.5	87
67	Trapped anomalous cosmic rays near the geomagnetic cutoff. <i>Journal of Geophysical Research</i> , 1996, 101, 24747-24753.	3.3	9
68	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
69	Sampex observations of energetic hydrogen isotopes in the inner zone. <i>Radiation Measurements</i> , 1996, 26, 967-978.	1.4	25
70	Charge State Measurements of Solar Energetic Particles Observed with SAMPEX. <i>Astrophysical Journal</i> , 1995, 452, 901.	4.5	64
71	Charge state of anomalous cosmic-ray nitrogen, oxygen, and neon: SAMPEX observations. <i>Astrophysical Journal</i> , 1995, 442, L69.	4.5	50
72	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

#	ARTICLE	IF	CITATIONS
73	Energetic Charged Particles in the Magnetosphere of Neptune. <i>Science</i> , 1989, 246, 1489-1494.	12.6	35
74	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
75	Jovian, Solar, and other Possible Sources of Radiation Belt Particles. <i>Geophysical Monograph Series</i> , 0, , 49-55.	0.1	6