

Cary J Zeitlin

List of Publications by Year in descending order

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Version: 2024-02-01

58
papers

2,841
citations

218677

26
h-index

175258

52
g-index

58
all docs

58
docs citations

58
times ranked

2382
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurements of Energetic Particle Radiation in Transit to Mars on the Mars Science Laboratory. <i>Science</i> , 2013, 340, 1080-1084.	12.6	503
2	Marsâ€™ Surface Radiation Environment Measured with the Mars Science Laboratoryâ€™s Curiosity Rover. <i>Science</i> , 2014, 343, 1244-1247.	12.6	475
3	The Radiation Assessment Detector (RAD) Investigation. <i>Space Science Reviews</i> , 2012, 170, 503-558.	8.1	155
4	Mars Science Laboratory Observations of the 2018/Mars Year 34 Global Dust Storm. <i>Geophysical Research Letters</i> , 2019, 46, 71-79.	4.0	138
5	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
6	The Martian surface radiation environment â€“ a comparison of models and MSL/RAD measurements. <i>Journal of Space Weather and Space Climate</i> , 2016, 6, A13.	3.3	70
7	Lunar radiation environment and space weathering from the Cosmic Ray Telescope for the Effects of Radiation (CRaTER). <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	67
8	Radiation climate map for analyzing risks to astronauts on the Mars surface from galactic cosmic rays. <i>Space Science Reviews</i> , 2004, 110, 143-156.	8.1	64
9	Charged particle spectra obtained with the Mars Science Laboratory Radiation Assessment Detector (MSL/RAD) on the surface of Mars. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 468-479.	3.6	64
10	Modeling the Evolution and Propagation of 10 September 2017 CMEs and SEPs Arriving at Mars Constrained by Remote Sensing and In Situ Measurement. <i>Space Weather</i> , 2018, 16, 1156-1169.	3.7	61
11	Measurements of the neutron spectrum on the Martian surface with MSL/RAD. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 594-603.	3.6	58
12	The radiation environment on the surface of Mars - Summary of model calculations and comparison to RAD data. <i>Life Sciences in Space Research</i> , 2017, 14, 18-28.	2.3	57
13	Does the worsening galactic cosmic radiation environment observed by CRaTER preclude future manned deep space exploration?. <i>Space Weather</i> , 2014, 12, 622-632.	3.7	55
14	Fragmentation cross sections of 290 and 400 MeV/nucleon C beams on elemental targets. <i>Physical Review C</i> , 2007, 76, .	2.9	44
15	Diurnal variations of energetic particle radiation at the surface of Mars as observed by the Mars Science Laboratory Radiation Assessment Detector. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1345-1358.	3.6	44
16	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
17	MODELING THE VARIATIONS OF DOSE RATE MEASURED BY RAD DURING THE FIRST MSL MARTIAN YEAR: 2012â€™2014. <i>Astrophysical Journal</i> , 2015, 810, 24.	4.5	43
18	Comparison of Martian surface ionizing radiation measurements from MSLâ€™RAD with Badhwarâ€™Neill 2011/HZETRN model calculations. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1311-1321.	3.6	42

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19	Estimation cross sections of medium-energy $C = \frac{1}{\sum_{i=1}^n \frac{1}{C_i}}$	2.9	38
20	Variations of dose rate observed by MSL/RAD in transit to Mars. <i>Astronomy and Astrophysics</i> , 2015, 577, A58.	5.1	35
21	Measurements of the neutron spectrum in transit to Mars on the Mars Science Laboratory. <i>Life Sciences in Space Research</i> , 2015, 5, 6-12.	2.3	34
22	A Generalized Approach to Model the Spectra and Radiation Dose Rate of Solar Particle Events on the Surface of Mars. <i>Astronomical Journal</i> , 2018, 155, 49.	4.7	32
23	Calibration and Characterization of the Radiation Assessment Detector (RAD) on Curiosity. <i>Space Science Reviews</i> , 2016, 201, 201-233.	8.1	30
24	The charged particle radiation environment on Mars measured by MSL/RAD from November 15, 2015 to January 15, 2016. <i>Life Sciences in Space Research</i> , 2017, 14, 3-11.	2.3	29
25	Measurements of Forbush decreases at Mars: both by MSL on ground and by MAVEN in orbit. <i>Astronomy and Astrophysics</i> , 2018, 611, A79.	5.1	29
26	Analysis of the Radiation Hazard Observed by RAD on the Surface of Mars During the September 2017 Solar Particle Event. <i>Geophysical Research Letters</i> , 2018, 45, 5845-5851.	4.0	29
27	Energetic Particle Radiation Environment Observed by RAD on the Surface of Mars During the September 2017 Event. <i>Geophysical Research Letters</i> , 2018, 45, 5305-5311.	4.0	29
28	Radiation environment for future human exploration on the surface of Mars: the current understanding based on MSL/RAD dose measurements. <i>Astronomy and Astrophysics Review</i> , 2021, 29, 1.	25.5	27
29	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
30	Dependence of the Martian radiation environment on atmospheric depth: Modeling and measurement. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 329-341.	3.6	26
31	The Solar Particle Event on 10 September 2017 as observed onboard the International Space Station (ISS). <i>Space Weather</i> , 2018, 16, 1173-1189.	3.7	26
32	Inversion of neutron/gamma spectra from scintillator measurements. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 2641-2648.	1.4	23
33	Charged particle spectra measured during the transit to Mars with the Mars Science Laboratory Radiation Assessment Detector (MSL/RAD). <i>Life Sciences in Space Research</i> , 2016, 10, 29-37.	2.3	23
34	Space Weather on the Surface of Mars: Impact of the September 2017 Events. <i>Space Weather</i> , 2018, 16, 1702-1708.	3.7	22
35	On determining the zenith angle dependence of the Martian radiation environment at Gale Crater altitudes. <i>Geophysical Research Letters</i> , 2015, 42, 10,557.	4.0	21
36	Measurements of the neutral particle spectra on Mars by MSL/RAD from 2015-11-15 to 2016-01-15. <i>Life Sciences in Space Research</i> , 2017, 14, 12-17.	2.3	21

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37	The Hohmannâ€“Parker effect measured by the Mars Science Laboratory on the transfer from Earth to Mars: Consequences and opportunities. <i>Planetary and Space Science</i> , 2013, 89, 127-139.	1.7	20
38	Measurements of galactic cosmic ray shielding with the CRaTER instrument. <i>Space Weather</i> , 2013, 11, 284-296.	3.7	19
39	MSL-RAD radiation environment measurements. <i>Radiation Protection Dosimetry</i> , 2015, 166, 290-294.	0.8	18
40	PHITS â€“ benchmark of partial charge-changing cross sections for intermediate-mass systems. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2007, 254, 30-38.	1.4	17
41	Using Forbush Decreases to Derive the Transit Time of ICMEs Propagating from 1 AU to Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 39-56.	2.4	17
42	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
43	Comparisons of fragmentation spectra using 1GeV/amu ⁵⁶ Fe data and the PHITS model. <i>Radiation Measurements</i> , 2008, 43, 1242-1253.	1.4	15
44	Comparing the Properties of ICMEâ€“Induced Forbush Decreases at Earth and Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027662.	2.4	14
45	Measurements of radiation quality factor on Mars with the Mars Science Laboratory Radiation Assessment Detector. <i>Life Sciences in Space Research</i> , 2019, 22, 89-97.	2.3	13
46	Comparisons of Highâ€“Linear Energy Transfer Spectra on the ISS and in Deep Space. <i>Space Weather</i> , 2019, 17, 396-418.	3.7	13
47	The first cosmic ray albedo proton map of the Moon. <i>Journal of Geophysical Research</i> , 2012, 117, .	3.3	12
48	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
49	Tracking and Validating ICMEs Propagating Toward Mars Using STEREO Heliospheric Imagers Combined With Forbush Decreases Detected by MSL/RAD. <i>Space Weather</i> , 2019, 17, 586-598.	3.7	9
50	Update on Galactic Cosmic Ray Integral Flux Measurements in Lunar Orbit With CRaTER. <i>Space Weather</i> , 2019, 17, 1011.	3.7	8
51	Solar modulation of the deep space galactic cosmic ray lineal energy spectrum measured by CRaTER, 2009â€“2014. <i>Space Weather</i> , 2016, 14, 247-258.	3.7	7
52	Detecting Upward Directed Charged Particle Fluxes in the Mars Science Laboratory Radiation Assessment Detector. <i>Earth and Space Science</i> , 2018, 5, 2-18.	2.6	6
53	The Pivot Energy of Solar Energetic Particles Affecting the Martian Surface Radiation Environment. <i>Astrophysical Journal Letters</i> , 2019, 883, L12.	8.3	6
54	Directionality of the Martian Surface Radiation and Derivation of the Upward Albedo Radiation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093912.	4.0	6

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55	Natural Radiation Shielding on Mars Measured With the MSL/RAD Instrument. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006851.	3.6	4
56	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
57	The Martian surface radiation environment at solar minimum measured with MSL/RAD. <i>Icarus</i> , 2023, 393, 115035.	2.5	2
58	5.2.5 Calibration of Detectors that Have Flown on Mir, ISS, Lunar Reconnaissance Orbiter, the Orion Spacecraft and the Mars Science Laboratory. <i>Radioisotopes</i> , 2019, 68, 433-441.	0.2	0