

Bent Ehresmann

List of Publications by Year in descending order

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56
papers

6,428
citations

172207

29
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149479

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56
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docs citations

56
times ranked

4458
citing authors

#	ARTICLE	IF	CITATIONS
1	The Martian surface radiation environment at solar minimum measured with MSL/RAD. <i>Icarus</i> , 2023, 393, 115035.	1.1	2
2	Directionality of the Martian Surface Radiation and Derivation of the Upward Albedo Radiation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093912.	1.5	6
3	Natural Radiation Shielding on Mars Measured With the MSL/RAD Instrument. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2021JE006851.	1.5	4
4	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.	9.1	27
5	A semiconductor-based neutron detection system for planetary exploration. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 966, 163852.	0.7	6
6	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.	1.2	13
7	The Pivot Energy of Solar Energetic Particles Affecting the Martian Surface Radiation Environment. <i>Astrophysical Journal Letters</i> , 2019, 883, L12.	3.0	6
8	Mars Science Laboratory Dynamic Albedo of Neutrons passive mode data and results from sols 753 to 1292: Pahrump Hills to Naukluft Plateau. <i>Icarus</i> , 2019, 330, 75-90.	1.1	4
9	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.	1.3	9
10	Comparisons of High-Energy Linear Energy Transfer Spectra on the ISS and in Deep Space. <i>Space Weather</i> , 2019, 17, 396-418.	1.3	13
11	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.	0.8	17
12	Detecting Upward Directed Charged Particle Fluxes in the Mars Science Laboratory Radiation Assessment Detector. <i>Earth and Space Science</i> , 2018, 5, 2-18.	1.1	6
13	Results from the dynamic albedo of neutrons (DAN) passive mode experiment: Yellowknife Bay to Amargosa Valley (Sols 201-753). <i>Icarus</i> , 2018, 299, 513-537.	1.1	7
14	Measurements of Forbush decreases at Mars: both by MSL on ground and by MAVEN in orbit. <i>Astronomy and Astrophysics</i> , 2018, 611, A79.	2.1	29
15	Space Weather on the Surface of Mars: Impact of the September 2017 Events. <i>Space Weather</i> , 2018, 16, 1702-1708.	1.3	22
16	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.	1.5	29
17	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.	1.5	29
18	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.	1.3	61

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19	Dependence of the Martian radiation environment on atmospheric depth: Modeling and measurement. <i>Journal of Geophysical Research E: Planets</i> , 2017, 122, 329-341.	1.5	26
20	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.	1.2	21
21	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.	1.2	57
22	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.	1.2	29
23	Electron/positron measurements obtained with the Mars Science Laboratory Radiation Assessment Detector on the surface of Mars. <i>Annales Geophysicae</i> , 2016, 34, 133-141.	0.6	4
24	The Martian surface radiation environment – a comparison of models and MSL/RAD measurements. <i>Journal of Space Weather and Space Climate</i> , 2016, 6, A13.	1.1	70
25	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.	1.2	23
26	Calibration and Characterization of the Radiation Assessment Detector (RAD) on Curiosity. <i>Space Science Reviews</i> , 2016, 201, 201-233.	3.7	30
27	MODELING THE VARIATIONS OF DOSE RATE MEASURED BY RAD DURING THE FIRST<i>MSL</i> MARTIAN YEAR: 2012–2014. <i>Astrophysical Journal</i> , 2015, 810, 24.	1.6	43
28	On determining the zenith angle dependence of the Martian radiation environment at Gale Crater altitudes. <i>Geophysical Research Letters</i> , 2015, 42, 10,557.	1.5	21
29	Variations of dose rate observed by MSL/RAD in transit to Mars. <i>Astronomy and Astrophysics</i> , 2015, 577, A58.	2.1	35
30	MSL-RAD radiation environment measurements. <i>Radiation Protection Dosimetry</i> , 2015, 166, 290-294.	0.4	18
31	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.	1.2	34
32	Water equivalent hydrogen estimates from the first 200 sols of Curiosity’s traverse (Bradbury) experiment. <i>Icarus</i> , 2015, 262, 102-123.	1.1	16
33	Measurements of the neutron spectrum on the Martian surface with MSL/RAD. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 594-603.	1.5	58
34	Comparison of Martian surface ionizing radiation measurements from MSL’s RAD with Badhwar’s Neill 2011/HZETRN model calculations. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1311-1321.	1.5	42
35	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.	1.5	44
36	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245-1267.	6.0	323

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37	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1242777.	6.0	687
38	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1243480.	6.0	508
39	Marsâ€™™ Surface Radiation Environment Measured with the Mars Science Laboratoryâ€™™s Curiosity Rover. <i>Science</i> , 2014, 343, 1244797.	6.0	475
40	In Situ Radiometric and Exposure Age Dating of the Martian Surface. <i>Science</i> , 2014, 343, 1247166.	6.0	224
41	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1244734.	6.0	246
42	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.	1.5	64
43	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.	0.9	20
44	X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. <i>Science</i> , 2013, 341, 1238932.	6.0	327
45	Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. <i>Science</i> , 2013, 341, 1239505.	6.0	280
46	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266.	6.0	327
47	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	6.0	367
48	Isotope Ratios of H, C, and O in CO ₂ and H ₂ O of the Martian Atmosphere. <i>Science</i> , 2013, 341, 260-263.	6.0	241
49	Measurements of Energetic Particle Radiation in Transit to Mars on the Mars Science Laboratory. <i>Science</i> , 2013, 340, 1080-1084.	6.0	503
50	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	6.0	326
51	The Petrochemistry of Jake_M: A Martian Mugearite. <i>Science</i> , 2013, 341, 1239463.	6.0	134
52	Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. <i>Science</i> , 2013, 341, 1238670.	6.0	215
53	Low Upper Limit to Methane Abundance on Mars. <i>Science</i> , 2013, 342, 355-357.	6.0	103
54	The Radiation Assessment Detector (RAD) Investigation. <i>Space Science Reviews</i> , 2012, 170, 503-558.	3.7	155

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55	Influence of higher atmospheric pressure on the Martian radiation environment: Implications for possible habitability in the Noachian epoch. <i>Journal of Geophysical Research</i> , 2011, 116, n/a-n/a.	3.3	19
56	Inversion of neutron/gamma spectra from scintillator measurements. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 2641-2648.	0.6	23