

Bent Ehresmann

List of Publications by Year in descending order

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56
papers

6,428
citations

172207

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149479

56
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56
all docs

56
docs citations

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times ranked

4458
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777. | 6.0 | 687 |
| 2 | Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480. | 6.0 | 508 |
| 3 | Measurements of Energetic Particle Radiation in Transit to Mars on the Mars Science Laboratory. Science, 2013, 340, 1080-1084. | 6.0 | 503 |
| 4 | Mars's Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. Science, 2014, 343, 1244797. | 6.0 | 475 |
| 5 | Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937. | 6.0 | 367 |
| 6 | X-ray Diffraction Results from Mars Science Laboratory: Mineralogy of Rocknest at Gale Crater. Science, 2013, 341, 1238932. | 6.0 | 327 |
| 7 | Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266. | 6.0 | 327 |
| 8 | Martian Fluvial Conglomerates at Gale Crater. Science, 2013, 340, 1068-1072. | 6.0 | 326 |
| 9 | Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267. | 6.0 | 323 |
| 10 | Curiosity at Gale Crater, Mars: Characterization and Analysis of the Rocknest Sand Shadow. Science, 2013, 341, 1239505. | 6.0 | 280 |
| 11 | Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734. | 6.0 | 246 |
| 12 | Isotope Ratios of H, C, and O in CO ₂ and H ₂ O of the Martian Atmosphere. Science, 2013, 341, 260-263. | 6.0 | 241 |
| 13 | In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166. | 6.0 | 224 |
| 14 | Soil Diversity and Hydration as Observed by ChemCam at Gale Crater, Mars. Science, 2013, 341, 1238670. | 6.0 | 215 |
| 15 | The Radiation Assessment Detector (RAD) Investigation. Space Science Reviews, 2012, 170, 503-558. | 3.7 | 155 |
| 16 | The Petrochemistry of Jake_M: A Martian Mugearite. Science, 2013, 341, 1239463. | 6.0 | 134 |
| 17 | Low Upper Limit to Methane Abundance on Mars. Science, 2013, 342, 355-357. | 6.0 | 103 |
| 18 | The Martian surface radiation environment – a comparison of models and MSL/RAD measurements. Journal of Space Weather and Space Climate, 2016, 6, A13. | 1.1 | 70 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | 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 |
| 23 | 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 |
| 24 | MODELING THE VARIATIONS OF DOSE RATE MEASURED BY RAD DURING THE FIRST<i>MSL</i> MARTIAN YEAR: 2012â€“2014. <i>Astrophysical Journal</i> , 2015, 810, 24. | 1.6 | 43 |
| 25 | 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. | 1.5 | 42 |
| 26 | Variations of dose rate observed by MSL/RAD in transit to Mars. <i>Astronomy and Astrophysics</i> , 2015, 577, A58. | 2.1 | 35 |
| 27 | 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 |
| 28 | Calibration and Characterization of the Radiation Assessment Detector (RAD) on Curiosity. <i>Space Science Reviews</i> , 2016, 201, 201-233. | 3.7 | 30 |
| 29 | 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 |
| 30 | 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 |
| 31 | 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 |
| 32 | 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 |
| 33 | 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 |
| 34 | 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 |
| 35 | Inversion of neutron/gamma spectra from scintillator measurements. <i>Nuclear Instruments & Methods in Physics Research B</i> , 2011, 269, 2641-2648. | 0.6 | 23 |
| 36 | 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 |

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|----|---|-----|-----------|
| 37 | Space Weather on the Surface of Mars: Impact of the September 2017 Events. <i>Space Weather</i> , 2018, 16, 1702-1708. | 1.3 | 22 |
| 38 | 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 |
| 39 | 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 |
| 40 | 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 |
| 41 | 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 |
| 42 | MSL-RAD radiation environment measurements. <i>Radiation Protection Dosimetry</i> , 2015, 166, 290-294. | 0.4 | 18 |
| 43 | 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 |
| 44 | Water equivalent hydrogen estimates from the first 200 sols of Curiosityâ€™s traverse (Bradbury) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 experiment. <i>Icarus</i> , 2015, 262, 102-123. | 1.1 | 16 |
| 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. | 1.2 | 13 |
| 46 | Comparisons of Highâ€Linear Energy Transfer Spectra on the ISS and in Deep Space. <i>Space Weather</i> , 2019, 17, 396-418. | 1.3 | 13 |
| 47 | 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 |
| 48 | Results from the dynamic albedo of neutrons (DAN) passive mode experiment: Yellowknife Bay to Amargosa Valley (Sols 201â€753). <i>Icarus</i> , 2018, 299, 513-537. | 1.1 | 7 |
| 49 | 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 |
| 50 | The Pivot Energy of Solar Energetic Particles Affecting the Martian Surface Radiation Environment. <i>Astrophysical Journal Letters</i> , 2019, 883, L12. | 3.0 | 6 |
| 51 | 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 |
| 52 | Directionality of the Martian Surface Radiation and Derivation of the Upward Albedo Radiation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093912. | 1.5 | 6 |
| 53 | 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 |
| 54 | 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 |

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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. | 1.5 | 4 |
| 56 | The Martian surface radiation environment at solar minimum measured with MSL/RAD. <i>Icarus</i> , 2023, 393, 115035. | 1.1 | 2 |