

Jingnan Guo

List of Publications by Year in descending order

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86
papers

4,491
citations

186265

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106344

65
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91
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docs citations

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times ranked

3990
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | The Martian surface radiation environment at solar minimum measured with MSL/RAD. <i>Icarus</i> , 2023, 393, 115035. | 2.5 | 2 |
| 2 | Marsâ€™ plasma system. Scientific potential of coordinated multipoint missions: â€œThe next generationâ€. <i>Experimental Astronomy</i> , 2022, 54, 641-676. | 3.7 | 9 |
| 3 | From the Top of Martian Olympus to Deep Craters and Beneath: Mars Radiation Environment Under Different Atmospheric and Regolith Depths. <i>Journal of Geophysical Research E: Planets</i> , 2022, 127, . | 3.6 | 15 |
| 4 | How the area of solar coronal holes affects the properties of high-speed solar wind streams near Earth: An analytical model. <i>Astronomy and Astrophysics</i> , 2022, 659, A190. | 5.1 | 10 |
| 5 | Solar Energetic Particles Produced during Two Fast Coronal Mass Ejections. <i>Astrophysical Journal Letters</i> , 2022, 928, L6. | 8.3 | 15 |
| 6 | Variation in Cosmic-Ray Intensity Lags Sunspot Number: Implications of Late Opening of Solar Magnetic Field. <i>Astrophysical Journal</i> , 2022, 928, 157. | 4.5 | 10 |
| 7 | Radiation Environment and Doses on Mars at Oxia Planum and Mawrth Vallis: Support for Exploration at Sites With High Biosignature Preservation Potential. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, e2020JE006488. | 3.6 | 14 |
| 8 | Radial evolution of the April 2020 stealth coronal mass ejection between 0.8 and 1 AU. <i>Astronomy and Astrophysics</i> , 2021, 656, A1. | 5.1 | 15 |
| 9 | Three-dimensional Reconstruction of Coronal Mass Ejections by the Correlation-aided Reconstruction Technique through Different Stereoscopic Angles of the Solar Terrestrial Relations Observatory Twin Spacecraft. <i>Astrophysical Journal</i> , 2021, 909, 182. | 4.5 | 6 |
| 10 | CME Magnetic Structure and IMF Preconditioning Affecting SEP Transport. <i>Space Weather</i> , 2021, 19, e2020SW002654. | 3.7 | 18 |
| 11 | Properties of stream interaction regions at Earth and Mars during the declining phase of SC 24. <i>Astronomy and Astrophysics</i> , 2021, 649, A80. | 5.1 | 12 |
| 12 | Radial velocity map of solar wind transients in the field of view of STEREO/HI1 on 3 and 4 April 2010. <i>Astronomy and Astrophysics</i> , 2021, 649, A58. | 5.1 | 8 |
| 13 | An easy-to-use function to assess deep space radiation in human brains. <i>Scientific Reports</i> , 2021, 11, 11687. | 3.3 | 5 |
| 14 | Directionality of the Martian Surface Radiation and Derivation of the Upward Albedo Radiation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093912. | 4.0 | 6 |
| 15 | 2019 International Womenâ€™s Day event. <i>Astronomy and Astrophysics</i> , 2021, 652, A159. | 5.1 | 8 |
| 16 | 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 |
| 17 | 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 |
| 18 | Radiation Environment at the Surface and Subsurface of the Moon: Model Development and Validation. <i>Journal of Geophysical Research E: Planets</i> , 2021, 126, . | 3.6 | 9 |

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|----|--|------|-----------|
| 19 | The Two-step Forbush Decrease: A Tale of Two Substructures Modulating Galactic Cosmic Rays within Coronal Mass Ejections. <i>Astrophysical Journal</i> , 2021, 922, 216. | 4.5 | 10 |
| 20 | Evolution of Coronal Mass Ejections and the Corresponding Forbush Decreases: Modeling vs. Multi-Spacecraft Observations. <i>Solar Physics</i> , 2020, 295, 1. | 2.5 | 18 |
| 21 | Calculation of dose distribution in a realistic brain structure and the indication of space radiation influence on human brains. <i>Life Sciences in Space Research</i> , 2020, 27, 33-48. | 2.3 | 5 |
| 22 | First measurements of the radiation dose on the lunar surface. <i>Science Advances</i> , 2020, 6, . | 10.3 | 84 |
| 23 | The Lunar Lander Neutron and Dosimetry (LND) Experiment on Changâ€™E 4. <i>Space Science Reviews</i> , 2020, 216, 1. | 8.1 | 23 |
| 24 | Concept of the solar ring mission: An overview. <i>Science China Technological Sciences</i> , 2020, 63, 1699-1713. | 4.0 | 23 |
| 25 | 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 |
| 26 | CMEâ€™CME Interactions as Sources of CME Geoeffectiveness: The Formation of the Complex Ejecta and Intense Geomagnetic Storm in 2017 Early September. <i>Astrophysical Journal, Supplement Series</i> , 2020, 247, 21. | 7.7 | 78 |
| 27 | Subsurface Radiation Environment of Mars and Its Implication for Shielding Protection of Future Habitats. <i>Journal of Geophysical Research E: Planets</i> , 2020, 125, e2019JE006246. | 3.6 | 26 |
| 28 | A new model describing Forbush Decreases at Mars: combining the heliospheric modulation and the atmospheric influence. <i>Earth and Planetary Physics</i> , 2020, 4, 1-11. | 1.1 | 4 |
| 29 | First Solar Energetic Particles Measured on the Lunar Far-side. <i>Astrophysical Journal Letters</i> , 2020, 902, L30. | 8.3 | 11 |
| 30 | Unusual Plasma and Particle Signatures at Mars and STEREO-A Related to CMEâ€™CME Interaction. <i>Astrophysical Journal</i> , 2019, 880, 18. | 4.5 | 22 |
| 31 | 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 |
| 32 | The Pivot Energy of Solar Energetic Particles Affecting the Martian Surface Radiation Environment. <i>Astrophysical Journal Letters</i> , 2019, 883, L12. | 8.3 | 6 |
| 33 | A Catalogue of Forbush Decreases Recorded on the Surface of Mars from 2012 Until 2016: Comparison with Terrestrial FDs. <i>Solar Physics</i> , 2019, 294, 1. | 2.5 | 15 |
| 34 | Galactic Cosmic Ray induced absorbed dose rate in deep space â€™ Accounting for detector size, shape, material, as well as for the solar modulation. <i>Journal of Space Weather and Space Climate</i> , 2019, 9, A14. | 3.3 | 12 |
| 35 | Implementation and validation of the GEANT4/AtRIS code to model the radiation environment at Mars. <i>Journal of Space Weather and Space Climate</i> , 2019, 9, A2. | 3.3 | 25 |
| 36 | Ready functions for calculating the Martian radiation environment. <i>Journal of Space Weather and Space Climate</i> , 2019, 9, A7. | 3.3 | 12 |

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|----|--|-----|-----------|
| 37 | 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 |
| 38 | Comparisons of High-Energy Linear Energy Transfer Spectra on the ISS and in Deep Space. <i>Space Weather</i> , 2019, 17, 396-418. | 3.7 | 13 |
| 39 | Multi-point galactic cosmic ray measurements between 1 and 4.5 AU over a full solar cycle. <i>Annales Geophysicae</i> , 2019, 37, 903-918. | 1.6 | 24 |
| 40 | 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 |
| 41 | Understanding the Twist Distribution Inside Magnetic Flux Ropes by Anatomizing an Interplanetary Magnetic Cloud. <i>Journal of Geophysical Research: Space Physics</i> , 2018, 123, 3238-3261. | 2.4 | 54 |
| 42 | Opening a Window on ICME-driven GCR Modulation in the Inner Solar System. <i>Astrophysical Journal</i> , 2018, 856, 139. | 4.5 | 27 |
| 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. | 2.4 | 17 |
| 44 | 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 |
| 45 | 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 |
| 46 | Coronal Hard X-Ray Sources Revisited. <i>Astrophysical Journal</i> , 2018, 867, 82. | 4.5 | 14 |
| 47 | Genesis and Impulsive Evolution of the 2017 September 10 Coronal Mass Ejection. <i>Astrophysical Journal</i> , 2018, 868, 107. | 4.5 | 79 |
| 48 | Space Weather on the Surface of Mars: Impact of the September 2017 Events. <i>Space Weather</i> , 2018, 16, 1702-1708. | 3.7 | 22 |
| 49 | Space Weather Prediction to Enhance the Reliability of the More Electric Aircraft. , 2018, , . | | 1 |
| 50 | 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 |
| 51 | 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 |
| 52 | Multi-spacecraft observations and transport simulations of solar energetic particles for the May 17th 2012 event. <i>Astronomy and Astrophysics</i> , 2018, 612, A116. | 5.1 | 16 |
| 53 | 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 |
| 54 | 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 |

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|----|--|------|-----------|
| 55 | 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 |
| 56 | 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 |
| 57 | Interplanetary coronal mass ejection observed at STEREO, Mars, comet 67P/Churyumov-Gerasimenko, Saturn, and New Horizons en route to Pluto: Comparison of its Forbush decreases at 1.4, 3.1, and 9.9 AU. <i>Journal of Geophysical Research: Space Physics</i> , 2017, 122, 7865-7890. | 2.4 | 87 |
| 58 | 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 |
| 59 | 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. | 1.6 | 4 |
| 60 | Suprathermal helium associated with corotating interaction regions: A case study. <i>AIP Conference Proceedings</i> , 2016, , . | 0.4 | 0 |
| 61 | 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. | 3.3 | 70 |
| 62 | 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 |
| 63 | Calibration and Characterization of the Radiation Assessment Detector (RAD) on Curiosity. <i>Space Science Reviews</i> , 2016, 201, 201-233. | 8.1 | 30 |
| 64 | MODELING THE VARIATIONS OF DOSE RATE MEASURED BY RAD DURING THE FIRST MSL MARTIAN YEAR: 2012–2014. <i>Astrophysical Journal</i> , 2015, 810, 24. | 4.5 | 43 |
| 65 | 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 |
| 66 | Variations of dose rate observed by MSL/RAD in transit to Mars. <i>Astronomy and Astrophysics</i> , 2015, 577, A58. | 5.1 | 35 |
| 67 | MSL-RAD radiation environment measurements. <i>Radiation Protection Dosimetry</i> , 2015, 166, 290-294. | 0.8 | 18 |
| 68 | 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 |
| 69 | 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 |
| 70 | Comparison of Martian surface ionizing radiation measurements from MSL-RAD with Badhwar-Neill 2011/HZETRN model calculations. <i>Journal of Geophysical Research E: Planets</i> , 2014, 119, 1311-1321. | 3.6 | 42 |
| 71 | 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 |
| 72 | Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245-1267. | 12.6 | 323 |

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|----|--|------|-----------|
| 73 | Mars's Surface Radiation Environment Measured with the Mars Science Laboratory's Curiosity Rover. <i>Science</i> , 2014, 343, 1244-1249. | 12.6 | 475 |
| 74 | 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 |
| 75 | The Hohmann-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 |
| 76 | Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266. | 12.6 | 327 |
| 77 | Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238-1243. | 12.6 | 367 |
| 78 | 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. | 12.6 | 241 |
| 79 | Measurements of Energetic Particle Radiation in Transit to Mars on the Mars Science Laboratory. <i>Science</i> , 2013, 340, 1080-1084. | 12.6 | 503 |
| 80 | Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072. | 12.6 | 326 |
| 81 | THE SPECIFIC ACCELERATION RATE IN LOOP-STRUCTURED SOLAR FLARES: IMPLICATIONS FOR ELECTRON ACCELERATION MODELS. <i>Astrophysical Journal</i> , 2013, 766, 28. | 4.5 | 25 |
| 82 | EMPIRICAL DETERMINATION OF THE ENERGY LOSS RATE OF ACCELERATED ELECTRONS IN A WELL-OBSERVED SOLAR FLARE. <i>Astrophysical Journal</i> , 2012, 751, 129. | 4.5 | 9 |
| 83 | PROPERTIES OF THE ACCELERATION REGIONS IN SEVERAL LOOP-STRUCTURED SOLAR FLARES. <i>Astrophysical Journal</i> , 2012, 755, 32. | 4.5 | 43 |
| 84 | Determination of the acceleration region size in a loop-structured solar flare. <i>Astronomy and Astrophysics</i> , 2012, 543, A53. | 5.1 | 31 |
| 85 | RELATIONSHIP BETWEEN HARD AND SOFT X-RAY EMISSION COMPONENTS OF A SOLAR FLARE. <i>Astrophysical Journal</i> , 2011, 728, 4. | 4.5 | 15 |
| 86 | Is the 3-D magnetic null point with a convective electric field an efficient particle accelerator?. <i>Astronomy and Astrophysics</i> , 2010, 513, A73. | 5.1 | 24 |