

Jingnan Guo

List of Publications by Year in descending order

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86
papers

4,491
citations

186265

28
h-index

106344

65
g-index

91
all docs

91
docs citations

91
times ranked

3990
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, 1244797.	12.6	475
3	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. <i>Science</i> , 2013, 341, 1238937.	12.6	367
4	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. <i>Science</i> , 2013, 341, 263-266.	12.6	327
5	Martian Fluvial Conglomerates at Gale Crater. <i>Science</i> , 2013, 340, 1068-1072.	12.6	326
6	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. <i>Science</i> , 2014, 343, 1245267.	12.6	323
7	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
8	Interplanetary coronal mass ejection observed at STEREOâ€™A, Mars, comet 67P/Churyumovâ€™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
9	First measurements of the radiation dose on the lunar surface. <i>Science Advances</i> , 2020, 6, .	10.3	84
10	Genesis and Impulsive Evolution of the 2017 September 10 Coronal Mass Ejection. <i>Astrophysical Journal</i> , 2018, 868, 107.	4.5	79
11	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
12	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
13	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
14	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
15	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
16	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
17	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
18	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

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19	PROPERTIES OF THE ACCELERATION REGIONS IN SEVERAL LOOP-STRUCTURED SOLAR FLARES. <i>Astrophysical Journal</i> , 2012, 755, 32.	4.5	43
20	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.	4.5	43
21	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
22	Variations of dose rate observed by MSL/RAD in transit to Mars. <i>Astronomy and Astrophysics</i> , 2015, 577, A58.	5.1	35
23	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
24	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
25	Determination of the acceleration region size in a loop-structured solar flare. <i>Astronomy and Astrophysics</i> , 2012, 543, A53.	5.1	31
26	Calibration and Characterization of the Radiation Assessment Detector (RAD) on Curiosity. <i>Space Science Reviews</i> , 2016, 201, 201-233.	8.1	30
27	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
28	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
29	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
30	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
31	Opening a Window on ICME-driven GCR Modulation in the Inner Solar System. <i>Astrophysical Journal</i> , 2018, 856, 139.	4.5	27
32	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
33	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
34	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
35	THE SPECIFIC ACCELERATION RATE IN LOOP-STRUCTURED SOLAR FLARESâ€™IMPLICATIONS FOR ELECTRON ACCELERATION MODELS. <i>Astrophysical Journal</i> , 2013, 766, 28.	4.5	25
36	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

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37	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
38	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
39	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
40	The Lunar Lander Neutron and Dosimetry (LND) Experiment on Chang'e 4. <i>Space Science Reviews</i> , 2020, 216, 1.	8.1	23
41	Concept of the solar ring mission: An overview. <i>Science China Technological Sciences</i> , 2020, 63, 1699-1713.	4.0	23
42	Space Weather on the Surface of Mars: Impact of the September 2017 Events. <i>Space Weather</i> , 2018, 16, 1702-1708.	3.7	22
43	Unusual Plasma and Particle Signatures at Mars and STEREO-A Related to CME-CME Interaction. <i>Astrophysical Journal</i> , 2019, 880, 18.	4.5	22
44	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
45	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
46	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
47	MSL-RAD radiation environment measurements. <i>Radiation Protection Dosimetry</i> , 2015, 166, 290-294.	0.8	18
48	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
49	CME Magnetic Structure and IMF Preconditioning Affecting SEP Transport. <i>Space Weather</i> , 2021, 19, e2020SW002654.	3.7	18
50	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
51	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
52	RELATIONSHIP BETWEEN HARD AND SOFT X-RAY EMISSION COMPONENTS OF A SOLAR FLARE. <i>Astrophysical Journal</i> , 2011, 728, 4.	4.5	15
53	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
54	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

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55	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
56	Solar Energetic Particles Produced during Two Fast Coronal Mass Ejections. <i>Astrophysical Journal Letters</i> , 2022, 928, L6.	8.3	15
57	Coronal Hard X-Ray Sources Revisited. <i>Astrophysical Journal</i> , 2018, 867, 82.	4.5	14
58	Comparing the Properties of ICMEs-Induced Forbush Decreases at Earth and Mars. <i>Journal of Geophysical Research: Space Physics</i> , 2020, 125, e2019JA027662.	2.4	14
59	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
60	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
61	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
62	Galactic Cosmic Ray induced absorbed dose rate in deep space – 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
63	Ready functions for calculating the Martian radiation environment. <i>Journal of Space Weather and Space Climate</i> , 2019, 9, A7.	3.3	12
64	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
65	First Solar Energetic Particles Measured on the Lunar Far-side. <i>Astrophysical Journal Letters</i> , 2020, 902, L30.	8.3	11
66	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
67	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
68	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
69	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
70	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
71	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
72	Mars's plasma system. Scientific potential of coordinated multipoint missions: –The next generation–. <i>Experimental Astronomy</i> , 2022, 54, 641-676.	3.7	9

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73	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
74	2019 International Women's Day event. <i>Astronomy and Astrophysics</i> , 2021, 652, A159.	5.1	8
75	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
76	The Pivot Energy of Solar Energetic Particles Affecting the Martian Surface Radiation Environment. <i>Astrophysical Journal Letters</i> , 2019, 883, L12.	8.3	6
77	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
78	Directionality of the Martian Surface Radiation and Derivation of the Upward Albedo Radiation. <i>Geophysical Research Letters</i> , 2021, 48, e2021GL093912.	4.0	6
79	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
80	An easy-to-use function to assess deep space radiation in human brains. <i>Scientific Reports</i> , 2021, 11, 11687.	3.3	5
81	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
82	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
83	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
84	The Martian surface radiation environment at solar minimum measured with MSL/RAD. <i>Icarus</i> , 2023, 393, 115035.	2.5	2
85	Space Weather Prediction to Enhance the Reliability of the More Electric Aircraft. , 2018, , .		1
86	Suprathermal helium associated with corotating interaction regions: A case study. <i>AIP Conference Proceedings</i> , 2016, , .	0.4	0