Robert F Wimmer-Schweingruber

List of Publications by Year
in descending order

218 papers	9,035 citations	87723 38 h-index	48187 88 g-index
251 all docs	251 docs citations	251 times ranked	5644 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	The Solar Orbiter mission. Astronomy and Astrophysics, 2020, 642, A1.	2.1	514
3	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	6.0	508
4	Measurements of Energetic Particle Radiation in Transit to Mars on the Mars Science Laboratory. Science, 2013, 340, 1080-1084.	6.0	503
5	Marsâ€™ Surface Radiation Environment Measured with the Mars Science Laboratoryâ€™s Curiosity Rover. Science, 2014, 343, 1244797.	6.0	475
6	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	6.0	367
7	The Plasma and Suprathermal Ion Composition (PLASTIC) Investigation on the STEREO Observatories. Space Science Reviews, 2008, 136, 437-486.	3.7	360
8	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	6.0	327
9	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	6.0	323
10	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	6.0	246
11	In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166.	6.0	224
12	Spatial structure of the solar wind and comparisons with solar data and models. Journal of Geophysical Research, 1998, 103, 14587-14599.	3.3	194
13	The Radiation Assessment Detector (RAD) Investigation. Space Science Reviews, 2012, 170, 503-558.	3.7	155
14	The Solar Orbiter Solar Wind Analyser (SWA) suite. Astronomy and Astrophysics, 2020, 642, A16.	2.1	141
15	The Solar Orbiter magnetometer. Astronomy and Astrophysics, 2020, 642, A9.	2.1	136
16	Understanding Interplanetary Coronal Mass Ejection Signatures. Space Science Reviews, 2006, 123, 177-216.	3.7	119
17	Unusual composition of the solar wind in the 2-3 May 1998 CME observed with SWICS on ACE. Geophysical Research Letters, 1999, 26, 157-160.	1.5	108
18	The Energetic Particle Detector. Astronomy and Astrophysics, 2020, 642, A7.	2.1	107

#	Article	IF	Citations
19	ICMEs in the Inner Heliosphere: Origin, Evolution and Propagation Effects. Space Science Reviews, 2006, 123, 383-416.	3.7	91
20	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 9.9ÂAU. Journal of Geophysical Research: Space Physics, 2017, 122, 7865-7890.	0.8	87
21	First measurements of the radiation dose on the lunar surface. Science Advances, 2020, 6, .	4.7	84
22	Solar wind stream interfaces in corotating interaction regions: SWICS/Ulysses results. Journal of Geophysical Research, 1997, 102, 17407-17417.	3.3	82
23	The Solar Orbiter Radio and Plasma Waves (RPW) instrument. Astronomy and Astrophysics, 2020, 642, A12.	2.1	80
24	Solar and Galactic Composition. AIP Conference Proceedings, 2001, , .	0.3	75
25	The Martian surface radiation environment â€" a comparison of models and MSL/RAD measurements. Journal of Space Weather and Space Climate, 2016, 6, A13.	1.1	70
26	The Solar Orbiter Science Activity Plan. Astronomy and Astrophysics, 2020, 642, A3.	2.1	67
27	Charged particle spectra obtained with the Mars Science Laboratory Radiation Assessment Detector (MSL/RAD) on the surface of Mars. Journal of Geophysical Research E: Planets, 2014, 119, 468-479.	1.5	64
28	Modeling the Evolution and Propagation of 10 September 2017 CMEs and SEPs Arriving at Mars Constrained by Remote Sensing and In Situ Measurement. Space Weather, 2018, 16, 1156-1169.	1.3	61
29	Turbulence Heating ObserveR â€" satellite mission proposal. Journal of Plasma Physics, 2016, 82, .	0.7	60
30	Measurements of the neutron spectrum on the Martian surface with MSL/RAD. Journal of Geophysical Research E: Planets, 2014, 119, 594-603.	1.5	58
31	The radiation environment on the surface of Mars - Summary of model calculations and comparison to RAD data. Life Sciences in Space Research, 2017, 14, 18-28.	1.2	57
32	Hydromagnetic Wave Excitation Upstream of an Interplanetary Traveling Shock. Astrophysical Journal, 2004, 601, L99-L102.	1.6	52
33	Solar and solar-wind isotopic compositions. Earth and Planetary Science Letters, 2004, 222, 697-712.	1.8	46
34	Assessment of galactic cosmic ray models. Journal of Geophysical Research, 2012, 117, .	3.3	44
35	Diurnal variations of energetic particle radiation at the surface of Mars as observed by the Mars Science Laboratory Radiation Assessment Detector. Journal of Geophysical Research E: Planets, 2014, 119, 1345-1358.	1.5	44
36	MODELING THE VARIATIONS OF DOSE RATE MEASURED BY RAD DURING THE FIRST<i>MSL</i>MARTIAN YEAR: 2012â€"2014. Astrophysical Journal, 2015, 810, 24.	1.6	43

#	Article	IF	Citations
37	Comparison of Martian surface ionizing radiation measurements from MSLâ€RAD with Badhwarâ€O'Neill 2011/HZETRN model calculations. Journal of Geophysical Research E: Planets, 2014, 119, 1311-1321.	1.5	42
38	Theoretical modeling for the stereo mission. Space Science Reviews, 2008, 136, 565-604.	3.7	40
39	Solar wind stream interfaces in corotating interaction regions: New SWICS/Ulysses results. Journal of Geophysical Research, 1999, 104, 9933-9945.	3.3	39
40	Temporal Evolution of the Solar Wind Bulk Velocity atÂSolar Minimum by Correlating the STEREO A andÂBÂPLASTIC Measurements. Solar Physics, 2009, 256, 365-377.	1.0	37
41	Near-term interstellar probe: First step. Acta Astronautica, 2019, 162, 284-299.	1.7	37
42	Systematic Measurements of Ion-Proton Differential Streaming in the Solar Wind. Physical Review Letters, 2011, 106, 151103.	2.9	36
43	SOLAR WIND â^¼20â€"200 keV SUPERHALO ELECTRONS AT QUIET TIMES. Astrophysical Journal Letters, 2015, 803, L2.	3.0	36
44	The first widespread solar energetic particle event observed by Solar Orbiter on 2020 November 29. Astronomy and Astrophysics, 2021, 656, A20.	2.1	36
45	Determination of low-energy ion-induced electron yields from thin carbon foils. Nuclear Instruments & Methods in Physics Research B, 2003, 211, 487-494.	0.6	35
46	On the origin of inner-source pickup ions. Geophysical Research Letters, 2003, 30, .	1.5	35
47	Variations of dose rate observed by MSL/RAD in transit to Mars. Astronomy and Astrophysics, 2015, 577, A58.	2.1	35
48	Understanding the origins of the heliosphere: integrating observations and measurements from Parker Solar Probe, Solar Orbiter, and other space- and ground-based observatories. Astronomy and Astrophysics, 2020, 642, A4.	2.1	35
49	Measurements of the neutron spectrum in transit to Mars on the Mars Science Laboratory. Life Sciences in Space Research, 2015, 5, 6-12.	1.2	34
50	The first ground-level enhancement of solar cycle 25 on 28 October 2021. Astronomy and Astrophysics, 2022, 660, L5.	2.1	34
51	A Generalized Approach to Model the Spectra and Radiation Dose Rate of Solar Particle Events on the Surface of Mars. Astronomical Journal, 2018, 155, 49.	1.9	32
52	Possible in situ tests of the evolution of elemental and isotopic abundances in the solar convection zone. Journal of Geophysical Research, 2002, 107, SSH 5-1-SSH 5-11.	3.3	31
53	Solar Orbiterâ€"mission profile, main goals and present status. Advances in Space Research, 2005, 36, 1360-1366.	1.2	31
54	Inflow direction of interstellar neutrals deduced from pickup ion measurements at 1 AU. Journal of Geophysical Research, 2012, 117, .	3.3	30

#	Article	IF	Citations
55	Calibration and Characterization of the Radiation Assessment Detector (RAD) on Curiosity. Space Science Reviews, 2016, 201, 201-233.	3.7	30
56	The charged particle radiation environment on Mars measured by MSL/RAD from November 15, 2015 to January 15, 2016. Life Sciences in Space Research, 2017, 14, 3-11.	1.2	29
57	Measurements of Forbush decreases at Mars: both by MSL on ground and by MAVEN in orbit. Astronomy and Astrophysics, 2018, 611, A79.	2.1	29
58	Analysis of the Radiation Hazard Observed by RAD on the Surface of Mars During the September 2017 Solar Particle Event. Geophysical Research Letters, 2018, 45, 5845-5851.	1.5	29
59	Energetic Particle Radiation Environment Observed by RAD on the Surface of Mars During the September 2017 Event. Geophysical Research Letters, 2018, 45, 5305-5311.	1.5	29
60	First year of energetic particle measurements in the inner heliosphere with Solar Orbiterâ€™s Energetic Particle Detector. Astronomy and Astrophysics, 2021, 656, A22.	2.1	29
61	Investigation of the Composition of Solar and Interstellar Matter Using Solar Wind and Pickup Ion Measurements with SWICS and SWIMS on the Ace Spacecraft. , 1998, , 497-539.		29
62	QUIET-TIME SUPRATHERMAL (âˆ¼0.1â€“1.5 keV) ELECTRONS IN THE SOLAR WIND. Astrophysical Journal, 2016, 820, 22.	1.6	27
63	Opening a Window on ICME-driven GCR Modulation in the Inner Solar System. Astrophysical Journal, 2018, 856, 139.	1.6	27
64	Radiation environment for future human exploration on the surface of Mars: the current understanding based on MSL/RAD dose measurements. Astronomy and Astrophysics Review, 2021, 29, 1.	9.1	27
65	Dependence of the Martian radiation environment on atmospheric depth: Modeling and measurement. Journal of Geophysical Research E: Planets, 2017, 122, 329-341.	1.5	26
66	Subsurface Radiation Environment of Mars and Its Implication for Shielding Protection of Future Habitats. Journal of Geophysical Research E: Planets, 2020, 125, e2019JE006246.	1.5	26
67	2D He⁺pickup ion velocity distribution functions: STEREO PLASTIC observations. Astronomy and Astrophysics, 2015, 575, A97.	2.1	25
68	Implementation and validation of the GEANT4/AtRIS code to model the radiation environment at Mars. Journal of Space Weather and Space Climate, 2019, 9, A2.	1.1	25
69	In Situ Observations of Solar Wind Stream Interface Evolution. Solar Physics, 2009, 259, 323-344.	1.0	23
70	Charged particle spectra measured during the transit to Mars with the Mars Science Laboratory Radiation Assessment Detector (MSL/RAD). Life Sciences in Space Research, 2016, 10, 29-37.	1.2	23
71	The Lunar Lander Neutron and Dosimetry (LND) Experiment on Changâ€™E 4. Space Science Reviews, 2020, 216, 1.	3.7	23
72	First determination of the silicon isotopic composition of the solar wind: WIND/MASS results. Journal of Geophysical Research, 1998, 103, 20621-20630.	3.3	22

#	Article	IF	Citations
73	Space Weather on the Surface of Mars: Impact of the September 2017 Events. Space Weather, 2018, 16, 1702-1708.	1.3	22
74	Unusual Plasma and Particle Signatures at Mars and STEREO-A Related to CMEâ€“CME Interaction. Astrophysical Journal, 2019, 880, 18.	1.6	22
75	Evolution of the Suprathermal Proton Population at Interplanetary Shocks. Astronomical Journal, 2019, 158, 12.	1.9	22
76	On determining the zenith angle dependence of the Martian radiation environment at Gale Crater altitudes. Geophysical Research Letters, 2015, 42, 10,557.	1.5	21
77	Measurements of the neutral particle spectra on Mars by MSL/RAD from 2015-11-15 to 2016-01-15. Life Sciences in Space Research, 2017, 14, 12-17.	1.2	21
78	What is the Solar Wind Frame of Reference?. Astrophysical Journal, 2020, 889, 163.	1.6	21
79	The isotopic composition of oxygen in the fast solar wind: ACE/SWIMS. Geophysical Research Letters, 2001, 28, 2763-2766.	1.5	20
80	The composition of the solar wind. Advances in Space Research, 2002, 30, 23-32.	1.2	19
81	Influence of higher atmospheric pressure on the Martian radiation environment: Implications for possible habitability in the Noachian epoch. Journal of Geophysical Research, 2011, 116, n/a-n/a.	3.3	19
82	Estimation of Galactic Cosmic Ray exposure inside and outside the Earthâ€™s magnetosphere during the recent solar minimum between solar cycles 23 and 24. Advances in Space Research, 2013, 52, 979-987.	1.2	19
83	How Galactic Cosmic Ray models affect the estimation of radiation exposure in space. Advances in Space Research, 2013, 51, 825-834.	1.2	19
84	Electron Acceleration by ICME-driven Shocks at 1 au. Astrophysical Journal, 2019, 875, 104.	1.6	19
85	Direct high-resolution ion beam-profile imaging using a position-sensitive Faraday cup array. Review of Scientific Instruments, 2009, 80, 113302.	0.6	18
86	MSL-RAD radiation environment measurements. Radiation Protection Dosimetry, 2015, 166, 290-294.	0.4	18
87	³He-rich solar energetic particle events observed on the first perihelion pass of Solar Orbiter. Astronomy and Astrophysics, 2021, 656, L1.	2.1	18
88	Suprathermal particles from corotating interaction regions during the first perihelion pass of Solar Orbiter. Astronomy and Astrophysics, 2021, 656, L2.	2.1	18
89	Using Forbush Decreases to Derive the Transit Time of ICMEs Propagating from 1 AU to Mars. Journal of Geophysical Research: Space Physics, 2018, 123, 39-56.	0.8	17
90	Assessment and recommendations for a consolidated European approach to space weather â€“ as part of a global space weather effort. Journal of Space Weather and Space Climate, 2019, 9, A37.	1.1	17

#	Article	IF	Citations
91	Coordination of the in situ payload of Solar Orbiter. Astronomy and Astrophysics, 2020, 642, A5.	2.1	17
92	Interstellar probe â€“ Destination: Universe!. Acta Astronautica, 2022, 196, 13-28.	1.7	17
93	O5+ in High Speed Solar Wind Streams: SWICS/Ulysses Results. Space Science Reviews, 1998, 85, 387-396.	3.7	16
94	Origin of the May 1998 suprathermal particles: Solar and Heliospheric Observatory/Charge, Element, and Isotope Analysis System/(Highly) Suprathermal Time of Flight results. Journal of Geophysical Research, 2002, 107, SSH 6-1.	3.3	16
95	Escape of O⁺ through the distant tail plasma sheet. Geophysical Research Letters, 2010, 37, .	1.5	16
96	Observations of high and low Fe charge states in individual solar wind streams with coronal-hole origin. Astronomy and Astrophysics, 2016, 593, A70.	2.1	16
97	Challenges in the determination of the interstellar flow longitude from the pickup ion cutoff. Astronomy and Astrophysics, 2018, 611, A61.	2.1	16
98	Solar Wind Classification Via k -Means Clustering Algorithm. , 2018, , 397-424.		16
99	First near-relativistic solar electron events observed by EPD onboard Solar Orbiter. Astronomy and Astrophysics, 2021, 656, L3.	2.1	16
100	On the solar wind composition during the November 1997 solar particle events: WIND/MASS observations. Geophysical Research Letters, 1999, 26, 3541-3544.	1.5	15
101	A Catalogue of Forbush Decreases Recorded on the Surface of Mars from 2012 Until 2016: Comparison with Terrestrial FDs. Solar Physics, 2019, 294, 1.	1.0	15
102	Radial evolution of the April 2020 stealth coronal mass ejection between 0.8 and 1 AU. Astronomy and Astrophysics, 2021, 656, A1.	2.1	15
103	From the Top of Martian Olympus to Deep Craters and Beneath: Mars Radiation Environment Under Different Atmospheric and Regolith Depths. Journal of Geophysical Research E: Planets, 2022, 127, .	1.5	15
104	Observations of interstellar neon in the helium focusing cone. Journal of Geophysical Research, 2010, 115, .	3.3	14
105	Energetic-particle-flux decreases related to magnetic cloud passages as observed by the Helios 1 and 2 spacecraft. Astronomy and Astrophysics, 2013, 556, A146.	2.1	14
106	Comparing the Properties of ICMEâ€Induced Forbush Decreases at Earth and Mars. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027662.	0.8	14
107	Particle energization in space plasmas: towards a multi-point, multi-scale plasma observatory. Experimental Astronomy, 2022, 54, 427-471.	1.6	14
108	The Strongest Acceleration of >40 keV Electrons by ICME-driven Shocks at 1 au. Astrophysical Journal, 2018, 853, 89.	1.6	13

#	Article	IF	Citations
109	Measurements of radiation quality factor on Mars with the Mars Science Laboratory Radiation Assessment Detector. Life Sciences in Space Research, 2019, 22, 89-97.	1.2	13
110	Comparisons of Highâ€Linear Energy Transfer Spectra on the ISS and in Deep Space. Space Weather, 2019, 17, 396-418.	1.3	13
111	Solar energetic particle heavy ion properties in the widespread event of 2020 November 29. Astronomy and Astrophysics, 2021, 656, L12.	2.1	13
112	Composition of inner-source heavy pickup ions at 1 AU: SOHO/CELIAS/CTOF observations. Astronomy and Astrophysics, 2015, 576, A55.	2.1	13
113	Long term variations of galactic cosmic radiation on board the International Space Station, on the Moon and on the surface of Mars. Journal of Space Weather and Space Climate, 0, , .	1.1	13
114	On the bulk isotopic composition of magnesium and silicon during the May 1998 CME: ACE/SWIMS. Geophysical Research Letters, 1999, 26, 165-168.	1.5	12
115	Galactic Cosmic Ray induced absorbed dose rate in deep space â€" Accounting for detector size, shape, material, as well as for the solar modulation. Journal of Space Weather and Space Climate, 2019, 9, A14.	1.1	12
116	Ready functions for calculating the Martian radiation environment. Journal of Space Weather and Space Climate, 2019, 9, A7.	1.1	12
117	The long period of³He-rich solar energetic particles measured by Solar Orbiter 2020 November 17â€"23. Astronomy and Astrophysics, 2021, 656, L11.	2.1	12
118	Solar wind ion trends and signatures: STEREO PLASTIC observations approaching solar minimum. Annales Geophysicae, 2009, 27, 3909-3922.	0.6	12
119	Isotopes in the solar wind: New results from ACE, SOHO, and WIND. , 1999, , .		11
120	Lunar soils: A long-term archive for the galactic environment of the heliosphere?. AIP Conference Proceedings, 2001, , .	0.3	11
121	Flat Proton Spectra in Large Solar Energetic Particle Events. Journal of Physics: Conference Series, 2018, 1100, 012014.	0.3	11
122	Panâ€Spectrum Fitting Formula for Suprathermal Particles. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028702.	0.8	11
123	First Solar Energetic Particles Measured on the Lunar Far-side. Astrophysical Journal Letters, 2020, 902, L30.	3.0	11
124	Linking the Sun to the Heliosphere Using Composition Data and Modelling. Space Science Reviews, 2021, 217, .	3.7	11
125	Coronal Mass Ejections. Space Science Reviews, 2006, 123, 471-480.	3.7	10
126	Solar energetic particle spectra from the SOHO-EPHIN sensor by application of regularization methods. Astronomy and Astrophysics, 2007, 473, 673-682.	2.1	10

#	Article	IF	Citations
127	Enabling interstellar probe. Acta Astronautica, 2011, 68, 790-801.	1.7	10
128	Interstellar He⁺ ringâ€beam distributions: Observations and implications. Geophysical Research Letters, 2013, 40, 1468-1473.	1.5	10
129	THE ANGULAR DISTRIBUTION OF SOLAR WIND SUPERHALO ELECTRONS AT QUIET TIMES. Astrophysical Journal Letters, 2015, 811, L8.	3.0	10
130	Case Study of Solar Wind Suprathermal Electron Acceleration at the Earthâ€™s Bow Shock. Astrophysical Journal Letters, 2020, 889, L2.	3.0	10
131	How the area of solar coronal holes affects the properties of high-speed solar wind streams near Earth: An analytical model. Astronomy and Astrophysics, 2022, 659, A190.	2.1	10
132	Multi-spacecraft Observations of CIR-Associated Ion Increases During the Ulysses 2007 Ecliptic Crossing. Solar Physics, 2009, 256, 409-425.	1.0	9
133	He Pickup Ions in the Inner Heliosphereâ€"Diagnostics of the Local Interstellar Gas and of Interplanetary Conditions. AIP Conference Proceedings, 2010, , .	0.3	9
134	Tracking and Validating ICMEs Propagating Toward Mars Using STEREO Heliospheric Imagers Combined With Forbush Decreases Detected by MSL/RAD. Space Weather, 2019, 17, 586-598.	1.3	9
135	Energetic ions in the Venusian system: Insights from the first Solar Orbiter flyby. Astronomy and Astrophysics, 2021, 656, A7.	2.1	9
136	Study of two interacting interplanetary coronal mass ejections encountered by Solar Orbiter during its first perihelion passage. Astronomy and Astrophysics, 2021, 656, A5.	2.1	9
137	First observations and performance of the RPW instrument on board the Solar Orbiter mission. Astronomy and Astrophysics, 2021, 656, A41.	2.1	9
138	Interplanetary Ion Flux Dropouts Across Multiple 3He-Rich Events. Frontiers in Astronomy and Space Sciences, 0, 9, .	1.1	9
139	Interstellar heliospheric probe/heliospheric boundary explorer missionâ€"a mission to the outermost boundaries of the solar system. Experimental Astronomy, 2009, 24, 9-46.	1.6	8
140	Short-term variability of inner-source pickup ions at 1 AU. Astronomy and Astrophysics, 2015, 576, A54.	2.1	8
141	Anisotropy of the He⁺, C⁺, N⁺, O⁺, and Ne⁺pickup ion velocity distribution functions. Astronomy and Astrophysics, 2016, 588, A12.	2.1	8
142	A New Low-beta Regime for Unstable Proton Firehose Modes in Bi-kappa-distributed Plasmas. Astrophysical Journal, 2021, 918, 37.	1.6	8
143	Gossamer Roadmap Technology Reference Study for a Solar Polar Mission. , 2014, , 243-257.		8
144	Origin of the solar wind: A novel approach to link in situ and remote observations. Astronomy and Astrophysics, 2017, 602, A24.	2.1	8

#	Article	IF	Citations
145	Summary of the Solar Orbiter payload working group activities. , 2004, 5171, 123.		7
146	Interstellar Probe: Impact of the Voyager and IBEX results on science and strategy. Acta Astronautica, 2011, 69, 767-776.	1.7	7
147	Spatially resolved measurements of electron cyclotron resonance ion source beam profile characteristics. Review of Scientific Instruments, 2011, 82, 033302.	0.6	7
148	Current density distributions and sputter marks in electron cyclotron resonance ion sources. Review of Scientific Instruments, 2013, 84, 013303.	0.6	7
149	Quiet-time low energy ion spectra observed on Solar Orbiter during solar minimum. Astronomy and Astrophysics, 2021, 656, L5.	2.1	7
150	On the interplay of solar wind proton and electron instabilities: linear and quasi-linear approaches. Monthly Notices of the Royal Astronomical Society, 2021, 503, 3134-3144.	1.6	7
151	Galactic cosmic ray modulation at Mars and beyond measured with EDACs on Mars Express and Rosetta. Astronomy and Astrophysics, 2021, 650, A165.	2.1	7
152	In Situ Measurement of the Energy Fraction in Suprathermal and Energetic Particles at ACE, Wind, and PSP Interplanetary Shocks. Astrophysical Journal, 2022, 928, 66.	1.6	7
153	Composition of magnetic cloud plasmas during 1997 and 1998. AIP Conference Proceedings, 2001, , .	0.3	6
154	SIMULATION OF ENERGETIC NEUTRAL ATOMS FROM SOLAR ENERGETIC PARTICLES. Astrophysical Journal Letters, 2014, 793, L37.	3.0	6
155	Discrete energetic (â^¼50â€“200 keV) electron events in the high-altitude cusp/polar cap/lobe. Science China Technological Sciences, 2017, 60, 1935-1940.	2.0	6
156	Detecting Upward Directed Charged Particle Fluxes in the Mars Science Laboratory Radiation Assessment Detector. Earth and Space Science, 2018, 5, 2-18.	1.1	6
157	The Pivot Energy of Solar Energetic Particles Affecting the Martian Surface Radiation Environment. Astrophysical Journal Letters, 2019, 883, L12.	3.0	6
158	Determination of Plasma, Pickup Ion, and Suprathermal Particle Spectrum in the Solar Wind Frame of Reference. Astrophysical Journal, 2019, 871, 60.	1.6	6
159	The Pitch-angle Distributions of Suprathermal Ions near an Interplanetary Shock. Astrophysical Journal Letters, 2020, 888, L22.	3.0	6
160	Directionality of the Martian Surface Radiation and Derivation of the Upward Albedo Radiation. Geophysical Research Letters, 2021, 48, e2021GL093912.	1.5	6
161	Understanding Interplanetary Coronal Mass Ejection Signatures. Space Sciences Series of ISSI, 2006, , 177-216.	0.0	6
162	On the velocity distributions of dust-related inner-source pickup ions. Geophysical Research Letters, 2006, 33, .	1.5	5

#	Article	IF	Citations
163	The Interstellar Heliopause Probe: Heliospheric Boundary Explorer Mission to the Interstellar Medium. Earth, Moon and Planets, 2009, 104, 17-24.	0.3	5
164	Modeling the effectiveness of shielding in the earth-moon-mars radiation environment using PREDICCS: five solar events in 2012. Journal of Space Weather and Space Climate, 2017, 7, A16.	1.1	5
165	Calculation of dose distribution in a realistic brain structure and the indication of space radiation influence on human brains. Life Sciences in Space Research, 2020, 27, 33-48.	1.2	5
166	An easy-to-use function to assess deep space radiation in human brains. Scientific Reports, 2021, 11, 11687.	1.6	5
167	The Plasma and Suprathermal Ion Composition (PLASTIC) Investigation on the STEREO Observatories. , 2008, , 437-486.		5
168	The Radiation Assessment Detector (RAD) Investigation. , 2012, , 503-558.		5
169	Disparity among low first ionization potential elements. Astronomy and Astrophysics, 2018, 619, A79.	2.1	5
170	An elliptic expansion of the potential field source surface model. Astronomy and Astrophysics, 2020, 638, A109.	2.1	5
171	Electron/positron measurements obtained with the Mars Science Laboratory Radiation Assessment Detector on the surface of Mars. Annales Geophysicae, 2016, 34, 133-141.	0.6	4
172	Large Energetic Particle Pressures in Solar Cycles 23 and 24. Journal of Physics: Conference Series, 2017, 900, 012012.	0.3	4
173	Evaluation of a potential field source surface model with elliptical source surfaces via ballistic back mapping of in situ spacecraft data. Astronomy and Astrophysics, 2021, 645, A83.	2.1	4
174	Solar Energetic Electrons Entering the Earthâ€™s Cusp/Lobe. Astrophysical Journal, 2021, 910, 12.	1.6	4
175	The Plasma Universe: A Coherent Science Theme for Voyage 2050. Frontiers in Astronomy and Space Sciences, 2021, 8, .	1.1	4
176	Natural Radiation Shielding on Mars Measured With the MSL/RAD Instrument. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006851.	1.5	4
177	The Solar Origin of Corotating Interaction Regions and their Formation in the Inner Heliosphere. Space Sciences Series of ISSI, 1999, , 141-178.	0.0	4
178	A new model describing Forbush Decreases at Mars: combining the heliospheric modulation and the atmospheric influence. Earth and Planetary Physics, 2020, 4, 1-11.	0.4	4
179	Solar Orbiterâ€™s encounter with the tail of comet C/2019 Y4 (ATLAS): Magnetic field draping and cometary pick-up ion waves. Astronomy and Astrophysics, 2021, 656, A39.	2.1	4
180	Effect of Coronal Mass Ejection Interactions on the SOHO/CELIAS/MTOF Measurements. Proceedings of the International Astronomical Union, 2004, 2004, 409-413.	0.0	3

#	Article	IF	Citations
181	Multi-point observations of CIR-associated energetic particles during the 2008 solar minimum. AIP Conference Proceedings, 2010, , .	0.3	3
182	Spatially resolved charge-state and current-density distributions at the extraction of an electron cyclotron resonance ion source. Review of Scientific Instruments, 2011, 82, 093302.	0.6	3
183	Heavy pickup ion w-spectra at 1 AU with SOHO/CELIAS/CTOF. , 2013, , .		3
184	Tracing heliospheric structures to their solar origin. AIP Conference Proceedings, 2016, , .	0.3	3
185	Quiet-time Solar Wind Suprathermal Electrons of Different Solar Origins. Astrophysical Journal Letters, 2020, 896, L5.	3.0	3
186	Solar Wind â^¼0.15â€"1.5 keV Electrons around Corotating Interaction Regions at 1 au. Astrophysical Journal, 2021, 922, 198.	1.6	3
187	Is there a record of interstellar pick-up ions in lunar soils?. AIP Conference Proceedings, 2000, , .	0.3	2
188	Sun, solar wind, meteorites and interstellar medium: What are the compositional relations?. AIP Conference Proceedings, 2001, , .	0.3	2
189	Applications of abundance data and requirements for cosmochemical modeling. AIP Conference Proceedings, 2001, , .	0.3	2
190	Interplanetary Disturbances. Lecture Notes in Physics, 2004, , 71-129.	0.3	2
191	Regularization methods used in error analysis of solar particle spectra measured on SOHO/EPHIN. Astronomy and Astrophysics, 2009, 495, 663-675.	2.1	2
192	Diagnostics of corotating interaction regions with the kinetic properties of iron ions as determined with STEREO/PLASTIC. Annales Geophysicae, 2010, 28, 491-497.	0.6	2
193	Kinetic temperatures of iron ions in the solar wind observed with STEREOâ^•PLASTIC. , 2010, , .		2
194	Suprathermal particles in magnetic clouds. AIP Conference Proceedings, 2013, , .	0.3	2
195	Interplanetary Disturbances Affecting Space Weather. Proceedings of the International Astronomical Union, 2013, 8, 297-306.	0.0	2
196	GEANT 4 simulation of the Helios cosmic ray telescope E6: Feasibility of chemical composition studies. Journal of Physics: Conference Series, 2015, 632, 012016.	0.3	2
197	High-time resolution measurements of solar wind heavy ions with SOHO/CELIAS/CTOF. AIP Conference Proceedings, 2016, , .	0.3	2
198	Investigation of solar wind source regions using Ulysses composition data and a PFSS model. AIP Conference Proceedings, 2016, , .	0.3	2

#	Article	IF	Citations
199	Observations of the He+ pickup ion torus velocity distribution function with SOHO/CELIAS/CTOF. AIP Conference Proceedings, 2016, , .	0.3	2
200	Proton-proton collisional age to order solar wind types. Astronomy and Astrophysics, 2020, 636, A103.	2.1	2
201	Evidence for local particle acceleration in the first recurrent galactic cosmic ray depression observed by Solar Orbiter. Astronomy and Astrophysics, 2021, 656, L10.	2.1	2
202	In-flight verification of the engineering design data for the Energetic Particle Detector on board the ESA/NASA Solar Orbiter. Acta Astronautica, 2021, 187, 12-23.	1.7	2
203	ICMEs in the Inner Heliosphere: Origin, Evolution and Propagation Effects. Space Sciences Series of ISSI, 2006, , 383-416.	0.0	2
204	The almost monoenergetic ion event on 19 October 2009: SEPT/STEREO observations. Astronomy and Astrophysics, 2011, 528, A84.	2.1	2
205	Erratum to â€œSolar and solar-wind isotopic compositionsâ€•[Earth Planet. Sci. Lett. 224 (2004) 697â€"712]. Earth and Planetary Science Letters, 2004, 226, 547.	1.8	1
206	Inner-Source Pickup Ions as Sensitive Probes to the Inner-Heliospheric Micro-State. AIP Conference Proceedings, 2010, , .	0.3	1
207	Evolution of an equatorial coronal hole structure and the released coronal hole wind stream: Carrington rotations 2039 to 2050. Astronomy and Astrophysics, 2017, 603, A84.	2.1	1
208	Interaction of interplanetary dust particles with magnetic clouds. Astronomy and Astrophysics, 2009, 507, L41-L43.	2.1	1
209	Open Issues in Heliospheric Physics. Earth, Moon and Planets, 2009, 104, 3-9.	0.3	0
210	3D velocity distribution functions of heavy ions and kinetic properties of O[sup 6+] at 1 AU. , 2010, , .		0
211	The Interstellar Heliopause Probeâˆ•Heliospheric Explorer: IHPâˆ•HEX. , 2010, , .		0
212	On the Origin of Inner Source Pickup Ions. , 2010, , .		0
213	Solar wind âˆ¼0.1-1.5 keV electrons at quiet times. AIP Conference Proceedings, 2016, , .	0.3	0
214	FIP effect for minor heavy solar wind ions as seen with SOHO/CELIAS/MTOF. AIP Conference Proceedings, 2016, , .	0.3	0
215	Suprathermal helium associated with corotating interaction regions: A case study. AIP Conference Proceedings, 2016, , .	0.3	0
216	On the anisotropy of the He+ velocity distribution function. AIP Conference Proceedings, 2016, , .	0.3	0

#	Article	IF	Citations
217	The angular distribution of solar wind â^¼20-200 keV superhalo electrons at quiet times. AIP Conference Proceedings, 2016, , .	0.3	0
218	Coronal Mass Ejections. Space Sciences Series of ISSI, 2006, , 471-480.	0.0	0