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	Particle energization in space plasmas: towards a multi-point, multi-scale plasma observatory. Experimental Astronomy, 2022, 54, 427-471.	1.6	14
2	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
3	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
4	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
5	The first ground-level enhancement of solar cycle 25 on 28 October 2021. Astronomy and Astrophysics, 2022, 660, L5.	2.1	34
6	Interstellar probe â€“ Destination: Universe!. Acta Astronautica, 2022, 196, 13-28.	1.7	17
7	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
8	First near-relativistic solar electron events observed by EPD onboard Solar Orbiter. Astronomy and Astrophysics, 2021, 656, L3.	2.1	16
9	Quiet-time low energy ion spectra observed on Solar Orbiter during solar minimum. Astronomy and Astrophysics, 2021, 656, L5.	2.1	7
10	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
11	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
12	Solar Energetic Electrons Entering the Earthâ€™s Cusp/Lobe. Astrophysical Journal, 2021, 910, 12.	1.6	4
13	The Plasma Universe: A Coherent Science Theme for Voyage 2050. Frontiers in Astronomy and Space Sciences, 2021, 8, .	1.1	4
14	Energetic ions in the Venusian system: Insights from the first Solar Orbiter flyby. Astronomy and Astrophysics, 2021, 656, A7.	2.1	9
15	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
16	Solar energetic particle heavy ion properties in the widespread event of 2020 November 29. Astronomy and Astrophysics, 2021, 656, L12.	2.1	13
17	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
18	The first widespread solar energetic particle event observed by Solar Orbiter on 2020 November 29. Astronomy and Astrophysics, 2021, 656, A20.	2.1	36

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19	An easy-to-use function to assess deep space radiation in human brains. Scientific Reports, 2021, 11, 11687.	1.6	5
20	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
21	Directionality of the Martian Surface Radiation and Derivation of the Upward Albedo Radiation. Geophysical Research Letters, 2021, 48, e2021GL093912.	1.5	6
22	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
23	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
24	Natural Radiation Shielding on Mars Measured With the MSL/RAD Instrument. Journal of Geophysical Research E: Planets, 2021, 126, e2021JE006851.	1.5	4
25	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
26	A New Low-beta Regime for Unstable Proton Firehose Modes in Bi-kappa-distributed Plasmas. Astrophysical Journal, 2021, 918, 37.	1.6	8
27	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
28	³He-rich solar energetic particle events observed on the first perihelion pass of Solar Orbiter. Astronomy and Astrophysics, 2021, 656, L1.	2.1	18
29	Suprathermal particles from corotating interaction regions during the first perihelion pass of Solar Orbiter. Astronomy and Astrophysics, 2021, 656, L2.	2.1	18
30	Linking the Sun to the Heliosphere Using Composition Data and Modelling. Space Science Reviews, 2021, 217, .	3.7	11
31	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
32	First observations and performance of the RPW instrument on board the Solar Orbiter mission. Astronomy and Astrophysics, 2021, 656, A41.	2.1	9
33	Solar Wind â^¼0.15â€“1.5 keV Electrons around Corotating Interaction Regions at 1 au. Astrophysical Journal, 2021, 922, 198.	1.6	3
34	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
35	The Solar Orbiter mission. Astronomy and Astrophysics, 2020, 642, A1.	2.1	514
36	The Energetic Particle Detector. Astronomy and Astrophysics, 2020, 642, A7.	2.1	107

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37	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
38	First measurements of the radiation dose on the lunar surface. Science Advances, 2020, 6, .	4.7	84
39	The Lunar Lander Neutron and Dosimetry (LND) Experiment on Changâ€™E 4. Space Science Reviews, 2020, 216, 1.	3.7	23
40	Proton-proton collisional age to order solar wind types. Astronomy and Astrophysics, 2020, 636, A103.	2.1	2
41	Comparing the Properties of ICMEâ€Induced Forbush Decreases at Earth and Mars. Journal of Geophysical Research: Space Physics, 2020, 125, e2019JA027662.	0.8	14
42	Case Study of Solar Wind Suprathermal Electron Acceleration at the Earthâ€™s Bow Shock. Astrophysical Journal Letters, 2020, 889, L2.	3.0	10
43	The Pitch-angle Distributions of Suprathermal Ions near an Interplanetary Shock. Astrophysical Journal Letters, 2020, 888, L22.	3.0	6
44	What is the Solar Wind Frame of Reference?. Astrophysical Journal, 2020, 889, 163.	1.6	21
45	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
46	Panâ€Spectrum Fitting Formula for Suprathermal Particles. Journal of Geophysical Research: Space Physics, 2020, 125, e2020JA028702.	0.8	11
47	The Solar Orbiter Radio and Plasma Waves (RPW) instrument. Astronomy and Astrophysics, 2020, 642, A12.	2.1	80
48	Coordination of the in situ payload of Solar Orbiter. Astronomy and Astrophysics, 2020, 642, A5.	2.1	17
49	The Solar Orbiter magnetometer. Astronomy and Astrophysics, 2020, 642, A9.	2.1	136
50	The Solar Orbiter Solar Wind Analyser (SWA) suite. Astronomy and Astrophysics, 2020, 642, A16.	2.1	141
51	An elliptic expansion of the potential field source surface model. Astronomy and Astrophysics, 2020, 638, A109.	2.1	5
52	The Solar Orbiter Science Activity Plan. Astronomy and Astrophysics, 2020, 642, A3.	2.1	67
53	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
54	First Solar Energetic Particles Measured on the Lunar Far-side. Astrophysical Journal Letters, 2020, 902, L30.	3.0	11

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55	Quiet-time Solar Wind Suprathermal Electrons of Different Solar Origins. Astrophysical Journal Letters, 2020, 896, L5.	3.0	3
56	Unusual Plasma and Particle Signatures at Mars and STEREO-A Related to CMEâ€“CME Interaction. Astrophysical Journal, 2019, 880, 18.	1.6	22
57	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
58	The Pivot Energy of Solar Energetic Particles Affecting the Martian Surface Radiation Environment. Astrophysical Journal Letters, 2019, 883, L12.	3.0	6
59	Evolution of the Suprathermal Proton Population at Interplanetary Shocks. Astronomical Journal, 2019, 158, 12.	1.9	22
60	Near-term interstellar probe: First step. Acta Astronautica, 2019, 162, 284-299.	1.7	37
61	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
62	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
63	Electron Acceleration by ICME-driven Shocks at 1 au. Astrophysical Journal, 2019, 875, 104.	1.6	19
64	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
65	Ready functions for calculating the Martian radiation environment. Journal of Space Weather and Space Climate, 2019, 9, A7.	1.1	12
66	Determination of Plasma, Pickup Ion, and Suprathermal Particle Spectrum in the Solar Wind Frame of Reference. Astrophysical Journal, 2019, 871, 60.	1.6	6
67	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
68	Comparisons of Highâ€Linear Energy Transfer Spectra on the ISS and in Deep Space. Space Weather, 2019, 17, 396-418.	1.3	13
69	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
70	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
71	Opening a Window on ICME-driven GCR Modulation in the Inner Solar System. Astrophysical Journal, 2018, 856, 139.	1.6	27
72	The Strongest Acceleration of >40 keV Electrons by ICME-driven Shocks at 1 au. Astrophysical Journal, 2018, 853, 89.	1.6	13

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73	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
74	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
75	Flat Proton Spectra in Large Solar Energetic Particle Events. Journal of Physics: Conference Series, 2018, 1100, 012014.	0.3	11
76	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
77	Challenges in the determination of the interstellar flow longitude from the pickup ion cutoff. Astronomy and Astrophysics, 2018, 611, A61.	2.1	16
78	Space Weather on the Surface of Mars: Impact of the September 2017 Events. Space Weather, 2018, 16, 1702-1708.	1.3	22
79	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
80	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
81	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
82	Solar Wind Classification Via k -Means Clustering Algorithm. , 2018, , 397-424.		16
83	Disparity among low first ionization potential elements. Astronomy and Astrophysics, 2018, 619, A79.	2.1	5
84	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
85	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
86	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
87	Large Energetic Particle Pressures in Solar Cycles 23 and 24. Journal of Physics: Conference Series, 2017, 900, 012012.	0.3	4
88	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
89	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
90	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

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91	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
92	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
93	Origin of the solar wind: A novel approach to link in situ and remote observations. Astronomy and Astrophysics, 2017, 602, A24.	2.1	8
94	Anisotropy of the He⁺, C⁺, N⁺, O⁺, and Ne⁺pickup ion velocity distribution functions. Astronomy and Astrophysics, 2016, 588, A12.	2.1	8
95	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
96	Solar wind â^¼0.1-1.5 keV electrons at quiet times. AIP Conference Proceedings, 2016, , .	0.3	0
97	FIP effect for minor heavy solar wind ions as seen with SOHO/CELIAS/MTOF. AIP Conference Proceedings, 2016, , .	0.3	0
98	Tracing heliospheric structures to their solar origin. AIP Conference Proceedings, 2016, , .	0.3	3
99	High-time resolution measurements of solar wind heavy ions with SOHO/CELIAS/CTOF. AIP Conference Proceedings, 2016, , .	0.3	2
100	Suprathermal helium associated with corotating interaction regions: A case study. AIP Conference Proceedings, 2016, , .	0.3	0
101	Investigation of solar wind source regions using Ulysses composition data and a PFSS model. AIP Conference Proceedings, 2016, , .	0.3	2
102	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
103	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
104	Calibration and Characterization of the Radiation Assessment Detector (RAD) on Curiosity. Space Science Reviews, 2016, 201, 201-233.	3.7	30
105	On the anisotropy of the He+ velocity distribution function. AIP Conference Proceedings, 2016, , .	0.3	0
106	Observations of the He+ pickup ion torus velocity distribution function with SOHO/CELIAS/CTOF. AIP Conference Proceedings, 2016, , .	0.3	2
107	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
108	Turbulence Heating ObserveR â€“ satellite mission proposal. Journal of Plasma Physics, 2016, 82, .	0.7	60

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109	The angular distribution of solar wind â^¼20-200 keV superhalo electrons at quiet times. AIP Conference Proceedings, 2016, , .	0.3	0
110	QUIET-TIME SUPRATHERMAL (â^¼0.1â€“1.5 keV) ELECTRONS IN THE SOLAR WIND. Astrophysical Journal, 2016, 820, 22.	1.6	27
111	MODELING THE VARIATIONS OF DOSE RATE MEASURED BY RAD DURING THE FIRSTMSLMARTIAN YEAR: 2012â€“2014. Astrophysical Journal, 2015, 810, 24.	1.6	43
112	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
113	2D He⁺pickup ion velocity distribution functions: STEREO PLASTIC observations. Astronomy and Astrophysics, 2015, 575, A97.	2.1	25
114	Variations of dose rate observed by MSL/RAD in transit to Mars. Astronomy and Astrophysics, 2015, 577, A58.	2.1	35
115	THE ANGULAR DISTRIBUTION OF SOLAR WIND SUPERHALO ELECTRONS AT QUIET TIMES. Astrophysical Journal Letters, 2015, 811, L8.	3.0	10
116	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
117	Short-term variability of inner-source pickup ions at 1 AU. Astronomy and Astrophysics, 2015, 576, A54.	2.1	8
118	MSL-RAD radiation environment measurements. Radiation Protection Dosimetry, 2015, 166, 290-294.	0.4	18
119	SOLAR WIND â^¼20â€“200 keV SUPERHALO ELECTRONS AT QUIET TIMES. Astrophysical Journal Letters, 2015, 803, L2.	3.0	36
120	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
121	Composition of inner-source heavy pickup ions at 1 AU: SOHO/CELIAS/CTOF observations. Astronomy and Astrophysics, 2015, 576, A55.	2.1	13
122	SIMULATION OF ENERGETIC NEUTRAL ATOMS FROM SOLAR ENERGETIC PARTICLES. Astrophysical Journal Letters, 2014, 793, L37.	3.0	6
123	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
124	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
125	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
126	Volatile and Organic Compositions of Sedimentary Rocks in Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1245267.	6.0	323

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127	A Habitable Fluvio-Lacustrine Environment at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1242777.	6.0	687
128	Mineralogy of a Mudstone at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1243480.	6.0	508
129	Marsâ€™ Surface Radiation Environment Measured with the Mars Science Laboratoryâ€™s Curiosity Rover. Science, 2014, 343, 1244797.	6.0	475
130	In Situ Radiometric and Exposure Age Dating of the Martian Surface. Science, 2014, 343, 1247166.	6.0	224
131	Elemental Geochemistry of Sedimentary Rocks at Yellowknife Bay, Gale Crater, Mars. Science, 2014, 343, 1244734.	6.0	246
132	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
133	Gossamer Roadmap Technology Reference Study for a Solar Polar Mission. , 2014, , 243-257.		8
134	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
135	How Galactic Cosmic Ray models affect the estimation of radiation exposure in space. Advances in Space Research, 2013, 51, 825-834.	1.2	19
136	Abundance and Isotopic Composition of Gases in the Martian Atmosphere from the Curiosity Rover. Science, 2013, 341, 263-266.	6.0	327
137	Volatile, Isotope, and Organic Analysis of Martian Fines with the Mars Curiosity Rover. Science, 2013, 341, 1238937.	6.0	367
138	Measurements of Energetic Particle Radiation in Transit to Mars on the Mars Science Laboratory. Science, 2013, 340, 1080-1084.	6.0	503
139	Suprathermal particles in magnetic clouds. AIP Conference Proceedings, 2013, , .	0.3	2
140	Heavy pickup ion w-spectra at 1 AU with SOHO/CELIAS/CTOF. , 2013, , .		3
141	Current density distributions and sputter marks in electron cyclotron resonance ion sources. Review of Scientific Instruments, 2013, 84, 013303.	0.6	7
142	Interplanetary Disturbances Affecting Space Weather. Proceedings of the International Astronomical Union, 2013, 8, 297-306.	0.0	2
143	Interstellar He⁺ ringâ€beam distributions: Observations and implications. Geophysical Research Letters, 2013, 40, 1468-1473.	1.5	10
144	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

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145	The Radiation Assessment Detector (RAD) Investigation. Space Science Reviews, 2012, 170, 503-558.	3.7	155
146	Assessment of galactic cosmic ray models. Journal of Geophysical Research, 2012, 117, .	3.3	44
147	Inflow direction of interstellar neutrals deduced from pickup ion measurements at 1 AU. Journal of Geophysical Research, 2012, 117, .	3.3	30
148	The Radiation Assessment Detector (RAD) Investigation. , 2012, , 503-558.		5
149	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
150	Interstellar Probe: Impact of the Voyager and IBEX results on science and strategy. Acta Astronautica, 2011, 69, 767-776.	1.7	7
151	Enabling interstellar probe. Acta Astronautica, 2011, 68, 790-801.	1.7	10
152	Systematic Measurements of Ion-Proton Differential Streaming in the Solar Wind. Physical Review Letters, 2011, 106, 151103.	2.9	36
153	Spatially resolved measurements of electron cyclotron resonance ion source beam profile characteristics. Review of Scientific Instruments, 2011, 82, 033302.	0.6	7
154	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
155	The almost monoenergetic ion event on 19 October 2009: SEPT/STEREO observations. Astronomy and Astrophysics, 2011, 528, A84.	2.1	2
156	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
157	3D velocity distribution functions of heavy ions and kinetic properties of O[sup 6+] at 1 AU. , 2010, , .		0
158	Inner-Source Pickup Ions as Sensitive Probes to the Inner-Heliospheric Micro-State. AIP Conference Proceedings, 2010, , .	0.3	1
159	The Interstellar Heliopause Probeâ•Heliospheric Explorer: IHPâ•HEX. , 2010, , .		0
160	He Pickup Ions in the Inner Heliosphereâ€"Diagnostics of the Local Interstellar Gas and of Interplanetary Conditions. AIP Conference Proceedings, 2010, , .	0.3	9
161	On the Origin of Inner Source Pickup Ions. , 2010, , .		0
162	Kinetic temperatures of iron ions in the solar wind observed with STEREOâ•PLASTIC. , 2010, , .		2

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163	Multi-point observations of CIR-associated energetic particles during the 2008 solar minimum. AIP Conference Proceedings, 2010, , .	0.3	3
164	Escape of O⁺ through the distant tail plasma sheet. Geophysical Research Letters, 2010, 37, .	1.5	16
165	Observations of interstellar neon in the helium focusing cone. Journal of Geophysical Research, 2010, 115, .	3.3	14
166	Regularization methods used in error analysis of solar particle spectra measured on SOHO/EPHIN. Astronomy and Astrophysics, 2009, 495, 663-675.	2.1	2
167	Direct high-resolution ion beam-profile imaging using a position-sensitive Faraday cup array. Review of Scientific Instruments, 2009, 80, 113302.	0.6	18
168	The Interstellar Heliopause Probe: Heliospheric Boundary Explorer Mission to the Interstellar Medium. Earth, Moon and Planets, 2009, 104, 17-24.	0.3	5
169	Open Issues in Heliospheric Physics. Earth, Moon and Planets, 2009, 104, 3-9.	0.3	0
170	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
171	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
172	Multi-spacecraft Observations of CIR-Associated Ion Increases During the Ulysses 2007 Ecliptic Crossing. Solar Physics, 2009, 256, 409-425.	1.0	9
173	In Situ Observations of Solar Wind Stream Interface Evolution. Solar Physics, 2009, 259, 323-344.	1.0	23
174	Interaction of interplanetary dust particles with magnetic clouds. Astronomy and Astrophysics, 2009, 507, L41-L43.	2.1	1
175	Solar wind ion trends and signatures: STEREO PLASTIC observations approaching solar minimum. Annales Geophysicae, 2009, 27, 3909-3922.	0.6	12
176	Theoretical modeling for the stereo mission. Space Science Reviews, 2008, 136, 565-604.	3.7	40
177	The Plasma and Suprathermal Ion Composition (PLASTIC) Investigation on the STEREO Observatories. Space Science Reviews, 2008, 136, 437-486.	3.7	360
178	The Plasma and Suprathermal Ion Composition (PLASTIC) Investigation on the STEREO Observatories. , 2008, , 437-486.		5
179	Solar energetic particle spectra from the SOHO-EPHIN sensor by application of regularization methods. Astronomy and Astrophysics, 2007, 473, 673-682.	2.1	10
180	On the velocity distributions of dust-related inner-source pickup ions. Geophysical Research Letters, 2006, 33, .	1.5	5

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181	Understanding Interplanetary Coronal Mass Ejection Signatures. Space Science Reviews, 2006, 123, 177-216.	3.7	119
182	ICMEs in the Inner Heliosphere: Origin, Evolution and Propagation Effects. Space Science Reviews, 2006, 123, 383-416.	3.7	91
183	Coronal Mass Ejections. Space Science Reviews, 2006, 123, 471-480.	3.7	10
184	Understanding Interplanetary Coronal Mass Ejection Signatures. Space Sciences Series of ISSI, 2006, , 177-216.	0.0	6
185	ICMEs in the Inner Heliosphere: Origin, Evolution and Propagation Effects. Space Sciences Series of ISSI, 2006, , 383-416.	0.0	2
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