

R A Mewaldt

List of Publications by Year in descending order

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103
papers

4,936
citations

87723

38
h-index

95083

68
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104
all docs

104
docs citations

104
times ranked

2383
citing authors

#	ARTICLE	IF	CITATIONS
1	Suprathermal Ion Energy Spectra and Anisotropies near the Heliospheric Current Sheet Crossing Observed by the Parker Solar Probe during Encounter 7. <i>Astrophysical Journal</i> , 2022, 927, 62.	1.6	3
2	First Measurements of Jovian Electrons by Parker Solar Probe/IS TM IS within 0.5 au of the Sun. <i>Astrophysical Journal</i> , 2022, 933, 171.	1.6	2
3	A new view of energetic particles from stream interaction regions observed by Parker Solar Probe. <i>Astronomy and Astrophysics</i> , 2021, 650, A24.	2.1	15
4	Evidence for Energetic Neutral Hydrogen Emission from Solar Particle Events. <i>Astrophysical Journal</i> , 2021, 923, 195.	1.6	4
5	³ He-rich Solar Energetic Particle Observations at the Parker Solar Probe and near Earth. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 42.	3.0	27
6	Properties of Suprathermal-through-energetic He Ions Associated with Stream Interaction Regions Observed over the Parker Solar Probe's First Two Orbits. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 56.	3.0	29
7	Elemental Composition at the Cosmic-Ray Source Derived from the ACE-CRIS Instrument. I. ⁶ C to ²⁸ Ni. <i>Astrophysical Journal</i> , 2018, 865, 69.	1.6	14
8	Shock Connectivity and the Late Cycle 24 Solar Energetic Particle Events in July and September 2017. <i>Space Weather</i> , 2018, 16, 557-568.	1.3	34
9	TIME EVOLUTION OF ELEMENTAL RATIOS IN SOLAR ENERGETIC PARTICLE EVENTS. <i>Astrophysical Journal</i> , 2017, 835, 71.	1.6	6
10	Validation of the effect of cross-calibrated GOES solar proton effective energies on derived integral fluxes by comparison with STEREO observations. <i>Space Weather</i> , 2017, 15, 290-309.	1.3	36
11	GALACTIC COSMIC RAY ORIGINS AND OB ASSOCIATIONS: EVIDENCE FROM SuperTIGER OBSERVATIONS OF ELEMENTS ²⁶ Fe THROUGH ⁴⁰ Zr. <i>Astrophysical Journal</i> , 2016, 831, 148.	1.6	30
12	SPECTRAL PROPERTIES OF LARGE GRADUAL SOLAR ENERGETIC PARTICLE EVENTS. II. SYSTEMATIC Q/M DEPENDENCE OF HEAVY ION SPECTRAL BREAKS. <i>Astrophysical Journal</i> , 2016, 828, 106.	1.6	34
13	Integrated Science Investigation of the Sun (ISIS): Design of the Energetic Particle Investigation. <i>Space Science Reviews</i> , 2016, 204, 187-256.	3.7	139
14	THE LONGITUDINAL DEPENDENCE OF HEAVY-ION COMPOSITION IN THE 2013 APRIL 11 SOLAR ENERGETIC PARTICLE EVENT. <i>Astrophysical Journal</i> , 2014, 793, 35.	1.6	37
15	>25 MeV Proton Events Observed by the High Energy Telescopes on the STEREO A and B Spacecraft and/or at Earth During the First 1/4 Seven Years of the STEREO Mission. <i>Solar Physics</i> , 2014, 289, 3059-3107. ^{1.0}		195
16	Heliospheric Transport of Neutron-Decay Protons. <i>Solar Physics</i> , 2012, 281, 449.	1.0	2
17	Energy Spectra, Composition, and Other Properties of Ground-Level Events During Solar Cycle 23. <i>Space Science Reviews</i> , 2012, 171, 97-120.	3.7	139
18	Shock Acceleration of Ions in the Heliosphere. <i>Space Science Reviews</i> , 2012, 173, 247-281.	3.7	103

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19	INTERPLANETARY PROPAGATION OF SOLAR ENERGETIC PARTICLE HEAVY IONS OBSERVED AT 1 AU AND THE ROLE OF ENERGY SCALING. <i>Astrophysical Journal</i> , 2012, 761, 104.	1.6	45
20	Shock Acceleration of Ions in the Heliosphere. <i>Space Sciences Series of ISSI</i> , 2012, , 247-281.	0.0	1
21	HEAVY-ION FRACTIONATION IN THE IMPULSIVE SOLAR ENERGETIC PARTICLE EVENT OF 2002 AUGUST 20: ELEMENTS, ISOTOPES, AND INFERRED CHARGE STATES. <i>Astrophysical Journal</i> , 2010, 719, 1212-1229.	1.6	12
22	Multipoint connectivity analysis of the May 2007 solar energetic particle events. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	8
23	Understanding large SEP events with the PATH code: Modeling of the 13 December 2006 SEP event. <i>Journal of Geophysical Research</i> , 2010, 115, .	3.3	49
24	THE PHOSPHORUS, SULFUR, ARGON, AND CALCIUM ISOTOPIC COMPOSITION OF THE GALACTIC COSMIC RAY SOURCE. <i>Astrophysical Journal</i> , 2009, 695, 666-678.	1.6	6
25	<i>STEREO</i> OBSERVATIONS OF ENERGETIC NEUTRAL HYDROGEN ATOMS DURING THE 2006 DECEMBER 5 SOLAR FLARE. <i>Astrophysical Journal</i> , 2009, 693, L11-L15.	1.6	40
26	ENERGETIC PARTICLE OBSERVATIONS AND PROPAGATION IN THE THREE-DIMENSIONAL HELIOSPHERE DURING THE 2006 DECEMBER EVENTS. <i>Astrophysical Journal</i> , 2009, 704, 469-476.	1.6	30
27	COSMIC RAY ORIGIN IN OB ASSOCIATIONS AND PREFERENTIAL ACCELERATION OF REFRACTORY ELEMENTS: EVIDENCE FROM ABUNDANCES OF ELEMENTS₂₆Fe THROUGH₃₄Se. <i>Astrophysical Journal</i> , 2009, 697, 2083-2088.	1.6	64
28	The Solar Energetic Particle Event of 14 December 2006. <i>Solar Physics</i> , 2009, 256, 443-462.	1.0	32
29	Radial and latitudinal gradients of anomalous cosmic ray oxygen in the inner heliosphere. <i>Geophysical Research Letters</i> , 2009, 36, .	1.5	11
30	SHOCK GEOMETRY AND SPECTRAL BREAKS IN LARGE SEP EVENTS. <i>Astrophysical Journal</i> , 2009, 702, 998-1004.	1.6	61
31	USING THE PATH CODE FOR MODELING GRADUAL SEP EVENTS IN THE INNER HELIOSPHERE. <i>Astrophysical Journal</i> , 2009, 693, 894-900.	1.6	44
32	STEREO IMPACT Investigation Goals, Measurements, and Data Products Overview. <i>Space Science Reviews</i> , 2008, 136, 117-184.	3.7	257
33	The Low-Energy Telescope (LET) and SEP Central Electronics for the STEREO Mission. <i>Space Science Reviews</i> , 2008, 136, 285-362.	3.7	101
34	A model of the secondary radiation belt. <i>Journal of Geophysical Research</i> , 2008, 113, .	3.3	5
35	The High Energy Telescope for STEREO. <i>Space Science Reviews</i> , 2008, 136, 391-435.	3.7	96
36	Latitudinal Gradients of Galactic Cosmic Rays during the 2007 Solar Minimum. <i>Astrophysical Journal</i> , 2008, 689, 1443-1447.	1.6	22

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37	Unusual Observations during the December 2006 Solar Energetic Particle Events within an Interplanetary Coronal Mass Ejection at 1 AU. AIP Conference Proceedings, 2008, , .	0.3	1
38	A Novel Technique to Infer Ionic Charge States of Solar Energetic Particles. Astrophysical Journal, 2008, 679, 910-919.	1.6	6
39	The Low-Energy Telescope (LET) and SEP Central Electronics for the STEREO Mission. , 2008, , 285-362.		1
40	Solar Isotopic Composition as Determined Using Solar Energetic Particles. Space Science Reviews, 2007, 130, 195-205.	3.7	25
41	On the Differences in Composition between Solar Energetic Particles and Solar Wind. Space Science Reviews, 2007, 130, 207-219.	3.7	55
42	OB Associations, Wolf-Rayet Stars, and the Origin of Galactic Cosmic Rays. Space Science Reviews, 2007, 130, 439-449.	3.7	26
43	An Overview of the Origin of Galactic Cosmic Rays as Inferred from Observations of Heavy Ion Composition and Spectra. Space Science Reviews, 2007, 130, 415-429.	3.7	29
44	Long-Term Fluences of Solar Energetic Particles from H to Fe. Space Science Reviews, 2007, 130, 323-328.	3.7	43
45	Solar Elemental Composition Based on Studies of Solar Energetic Particles. Space Science Reviews, 2007, 130, 183-194.	3.7	31
46	On the Differences in Composition between Solar Energetic Particles and Solar Wind. Space Sciences Series of ISSI, 2007, , 207-219.	0.0	2
47	Long-Term Fluences of Solar Energetic Particles from H to Fe. Space Sciences Series of ISSI, 2007, , 323-328.	0.0	4
48	OB Associations, Wolf-Rayet Stars, and the Origin of Galactic Cosmic Rays. Space Sciences Series of ISSI, 2007, , 439-449.	0.0	0
49	Solar Isotopic Composition as Determined Using Solar Energetic Particles. Space Sciences Series of ISSI, 2007, , 195-205.	0.0	0
50	Solar Elemental Composition Based on Studies of Solar Energetic Particles. Space Sciences Series of ISSI, 2007, , 183-194.	0.0	0
51	The Source Material for Large Solar Energetic Particle Events. , 2006, , 115.		17
52	Role of flares and shocks in determining solar energetic particle abundances. Journal of Geophysical Research, 2006, 111, .	3.3	114
53	The Role of Interplanetary Scattering in Western Hemisphere Large Solar Energetic Particle Events. Astrophysical Journal, 2006, 647, L65-L68.	1.6	41
54	Heavy-Ion Elemental Abundances in Large Solar Energetic Particle Events and Their Implications for the Seed Population. Astrophysical Journal, 2006, 649, 470-489.	1.6	128

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55	Cosmic-Ray Neon, Wolf-Rayet Stars, and the Superbubble Origin of Galactic Cosmic Rays. <i>Astrophysical Journal</i> , 2005, 634, 351-364.	1.6	99
56	Shock Geometry, Seed Populations, and the Origin of Variable Elemental Composition at High Energies in Large Gradual Solar Particle Events. <i>Astrophysical Journal</i> , 2005, 625, 474-495.	1.6	356
57	Heavy ion abundances and spectra from the large solar energetic particle events of October-November 2003. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	71
58	Proton, helium, and electron spectra during the large solar particle events of October-November 2003. <i>Journal of Geophysical Research</i> , 2005, 110, .	3.3	187
59	Measurement of the Abundance of Radioactive ^{10}Be and Other Light Isotopes in Cosmic Radiation up to 2 GeV Nucleon $^{-1}$ with the Balloon-borne Instrument ISOMAX. <i>Astrophysical Journal</i> , 2004, 611, 892-905.	1.6	101
60	Two components in major solar particle events. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	133
61	Modulation of Jovian electrons at 1 AU during solar cycles 22-23. <i>Geophysical Research Letters</i> , 2003, 30, .	1.5	6
62	Modes of energy transfer from the solar wind to the inner magnetosphere. <i>Physics of Plasmas</i> , 2003, 10, 463-473.	0.7	12
63	The Coronal Isotopic Composition as Determined Using Solar Energetic Particles. <i>AIP Conference Proceedings</i> , 2003, , .	0.3	4
64	Elemental Fractionation in Small Solar Energetic Particle Events. <i>Astrophysical Journal</i> , 2003, 594, 592-604.	1.6	18
65	Spectral Properties of He and Heavy Ions in ^3He -rich Solar Flares. <i>Astrophysical Journal</i> , 2002, 574, 1039-1058.	1.6	107
66	Charge States of Energetic Particles from Corotating Interaction Regions as Constraints on Their Source. <i>Astrophysical Journal</i> , 2002, 566, 555-561.	1.6	19
67	Solar minimum spectra of galactic cosmic rays and their implications for models of the near-Earth radiation environment. <i>Journal of Geophysical Research</i> , 2001, 106, 29979-29987.	3.3	21
68	Isotopic abundances in the solar corona as inferred from ACE measurements of solar energetic particles. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	5
69	Measurement of the Secondary Radionuclides ^{10}Be , ^{26}Al , ^{36}Cl , ^{54}Mn , and ^{14}C and Implications for the Galactic Cosmic-Ray Age. <i>Astrophysical Journal</i> , 2001, 563, 768-792.	1.6	187
70	Long-term fluences of energetic particles in the heliosphere. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	33
71	The ionic charge state composition at high energies in large solar energetic particle events in solar cycle 23. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	11
72	Simulation of charge-equilibration and acceleration of solar energetic ions. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	16

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73	The isotopic composition of solar energetic particles. AIP Conference Proceedings, 2000, , .	0.3	9
74	Variable fractionation of solar energetic particles according to first ionization potential. AIP Conference Proceedings, 2000, , .	0.3	6
75	Charge states of solar energetic particles using the geomagnetic cutoff technique: SAMPEX measurements in the 6 November 1997 solar particle event. Geophysical Research Letters, 1999, 26, 173-176.	1.5	89
76	Unusual isotopic composition of solar energetic particles observed in the November 6, 1997 event. Geophysical Research Letters, 1999, 26, 153-156.	1.5	15
77	Inferred charge states of high energy solar particles from the solar isotope spectrometer on ACE. Geophysical Research Letters, 1999, 26, 149-152.	1.5	53
78	Particle acceleration and sources in the November 1997 solar energetic particle events. Geophysical Research Letters, 1999, 26, 141-144.	1.5	72
79	New observations of heavy-ion-rich solar particle events from ACE. Geophysical Research Letters, 1999, 26, 2697-2700.	1.5	89
80	Event-to-event variations in the isotopic composition of neon in solar energetic particle events. Geophysical Research Letters, 1999, 26, 2693-2696.	1.5	21
81	Magnetospheric response to magnetic cloud (coronal mass ejection) events: Relativistic electron observations from SAMPEX and Polar. Journal of Geophysical Research, 1999, 104, 24885-24894.	3.3	43
82	Constraints on the Time Delay between Nucleosynthesis and Cosmic-Ray Acceleration from Observations of $^{10}\text{B}/^{11}\text{B}$ and $^{12}\text{C}/^{13}\text{C}$. Astrophysical Journal, 1999, 523, L61-L64.	1.6	91
83	Maps of hydrogen isotopes at low altitudes in the inner zone from sampex observations. Advances in Space Research, 1998, 21, 1679-1682.	1.2	15
84	The Cosmic-Ray $^3\text{He}/^4\text{He}$ Ratio from 200 MeV per Nucleon $^{-1}$ to 3.7 GeV per Nucleon $^{-1}$. Astrophysical Journal, 1998, 496, 490-502.	1.6	38
85	Are energetic electrons in the solar wind the source of the outer radiation belt?. Geophysical Research Letters, 1997, 24, 923-926.	1.5	110
86	The Ionic Charge of Solar Energetic Particles with Energies of 0.3-70 MeV per Nucleon. Astrophysical Journal, 1997, 477, 495-501.	1.6	87
87	Atmospheric production of radiation belt light isotopes. Journal of Geophysical Research, 1996, 101, 19745-19757.	3.3	27
88	Sampex observations of energetic hydrogen isotopes in the inner zone. Radiation Measurements, 1996, 26, 967-978.	0.7	25
89	Evidence for Multiply Charged Anomalous Cosmic Rays. Astrophysical Journal, 1996, 466, L43-L46.	1.6	82
90	Charge State Measurements of Solar Energetic Particles Observed with SAMPEX. Astrophysical Journal, 1995, 452, 901.	1.6	64

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91	Measurements of the Ionic Charge States of Solar Energetic Particles Using the Geomagnetic Field. <i>Astrophysical Journal</i> , 1995, 452, .	1.6	85
92	Galactic cosmic ray composition and energy spectra. <i>Advances in Space Research</i> , 1994, 14, 737-747.	1.2	59
93	Isotope abundances of solar coronal material derived from solar energetic particle measurements. <i>Astrophysical Journal</i> , 1989, 337, 959.	1.6	30
94	He-3 in galactic cosmic rays. <i>Astrophysical Journal</i> , 1986, 311, 979.	1.6	11
95	The elemental and isotopic composition of galactic cosmic ray nuclei. <i>Reviews of Geophysics</i> , 1983, 21, 295-305.	9.0	22
96	The isotropic composition of cosmic ray B, C, N, and O nuclei. <i>Astrophysical Journal</i> , 1981, 251, L27.	1.6	17
97	The isotopic composition of galactic cosmic-ray iron nuclei. <i>Astrophysical Journal</i> , 1980, 236, L121.	1.6	19
98	Characteristics of the spectra of protons and alpha particles in recurrent events at 1 Au. <i>Geophysical Research Letters</i> , 1979, 6, 589-592.	1.5	17
99	The radial diffusion coefficient of 1.3×10^{23} MeV protons in recurrent proton streams. <i>Geophysical Research Letters</i> , 1978, 5, 965-968.	1.5	24
100	Observations of Jovian electrons at 1 AU. <i>Journal of Geophysical Research</i> , 1976, 81, 2397-2400.	3.3	34
101	Isotopic and elemental composition of the anomalous low-energy cosmic-ray fluxes. <i>Astrophysical Journal</i> , 1976, 205, 931.	1.6	17
102	The Energy Spectrum of 0.16 to 2 MeV Electrons during Solar Quiet Times. <i>Astrophysical Journal</i> , 1974, 192, 541.	1.6	14
103	Jovian, Solar, and other Possible Sources of Radiation Belt Particles. <i>Geophysical Monograph Series</i> , 0, , 49-55.	0.1	6