## R A Mewaldt

## List of Publications by Year in descending order

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103 4,936 38 68 papers citations h-index g-index

104 104 104 2383

times ranked

citing authors

docs citations

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#	Article	IF	CITATIONS
1	Shock Geometry, Seed Populations, and the Origin of Variable Elemental Composition at High Energies in Large Gradual Solar Particle Events. Astrophysical Journal, 2005, 625, 474-495.	1.6	356
2	STEREO IMPACT Investigation Goals, Measurements, and Data Products Overview. Space Science Reviews, 2008, 136, 117-184.	3.7	257
3	> 25 MeV Proton Events Observed by the High Energy Telescopes on the STEREO A and B Spacecraft and/or at Earth During the First â^1⁄4 Seven Years of the STEREO Mission. Solar Physics, 2014, 289, 3059-310	7. <sup>1.0</sup>	195
4	Measurement of the Secondary Radionuclides10Be,26Al,36Cl,54Mn, and14C and Implications for the Galactic Cosmicâ€Ray Age. Astrophysical Journal, 2001, 563, 768-792.	1.6	187
5	Proton, helium, and electron spectra during the large solar particle events of October-November 2003. Journal of Geophysical Research, 2005, $110$ , .	3.3	187
6	Energy Spectra, Composition, and Other Properties of Ground-Level Events During Solar Cycle 23. Space Science Reviews, 2012, 171, 97-120.	3.7	139
7	Integrated Science Investigation of the Sun (ISIS): Design of the Energetic Particle Investigation. Space Science Reviews, 2016, 204, 187-256.	3.7	139
8	Two components in major solar particle events. Geophysical Research Letters, 2003, 30, .	1.5	133
9	Heavyâ€lon Elemental Abundances in Large Solar Energetic Particle Events and Their Implications for the Seed Population. Astrophysical Journal, 2006, 649, 470-489.	1.6	128
10	Role of flares and shocks in determining solar energetic particle abundances. Journal of Geophysical Research, 2006, $111$ , .	3.3	114
11	Are energetic electrons in the solar wind the source of the outer radiation belt?. Geophysical Research Letters, 1997, 24, 923-926.	1.5	110
12	Spectral Properties of He and Heavy Ions in3Heâ€rich Solar Flares. Astrophysical Journal, 2002, 574, 1039-1058.	1.6	107
13	Shock Acceleration of lons in the Heliosphere. Space Science Reviews, 2012, 173, 247-281.	3.7	103
14	Measurement of the Abundance of Radioactive10Be and Other Light Isotopes in Cosmic Radiation up to 2 GeV Nucleonâ^1with the Balloonâ€borne Instrument ISOMAX. Astrophysical Journal, 2004, 611, 892-905.	1.6	101
15	The Low-Energy Telescope (LET) and SEP Central Electronics for the STEREO Mission. Space Science Reviews, 2008, 136, 285-362.	3.7	101
16	Cosmicâ∈Ray Neon, Wolfâ∈Rayet Stars, and the Superbubble Origin of Galactic Cosmic Rays. Astrophysical Journal, 2005, 634, 351-364.	1.6	99
17	The High Energy Telescope for STEREO. Space Science Reviews, 2008, 136, 391-435.	3.7	96
18	Constraints on the Time Delay between Nucleosynthesis and Cosmic-Ray Acceleration from Observations of [TSUP]59[/TSUP]N[CLC]i[/CLC] and [TSUP]59[/TSUP]C[CLC]o[/CLC]. Astrophysical Journal, 1999, 523, L61-L64.	1.6	91

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19	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
20	New observations of heavy-ion-rich solar particle events from ACE. Geophysical Research Letters, 1999, 26, 2697-2700.	1.5	89
21	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
22	Measurements of the Ionic Charge States of Solar Energetic Particles Using the Geomagnetic Field. Astrophysical Journal, 1995, 452, .	1.6	85
23	Evidence for Multiply Charged Anomalous Cosmic Rays. Astrophysical Journal, 1996, 466, L43-L46.	1.6	82
24	Particle acceleration and sources in the November 1997 solar energetic particle events. Geophysical Research Letters, 1999, 26, 141-144.	1.5	72
25	Heavy ion abundances and spectra from the large solar energetic particle events of October-November 2003. Journal of Geophysical Research, 2005, $110$ , .	3.3	71
26	COSMIC RAY ORIGIN IN OB ASSOCIATIONS AND PREFERENTIAL ACCELERATION OF REFRACTORY ELEMENTS: EVIDENCE FROM ABUNDANCES OF ELEMENTS < sub > 26 < /sub > Fe THROUGH < sub > 34 < /sub > Se. Astrophysical Journal, 2009, 697, 2083-2088.	1.6	64
27	Charge State Measurements of Solar Energetic Particles Observed with SAMPEX. Astrophysical Journal, 1995, 452, 901.	1.6	64
28	SHOCK GEOMETRY AND SPECTRAL BREAKS IN LARGE SEP EVENTS. Astrophysical Journal, 2009, 702, 998-1004.	1.6	61
29	Galactic cosmic ray composition and energy spectra. Advances in Space Research, 1994, 14, 737-747.	1.2	59
30	On the Differences in Composition between Solar Energetic Particles and Solar Wind. Space Science Reviews, 2007, 130, 207-219.	3.7	55
31	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
32	Understanding large SEP events with the PATH code: Modeling of the $13$ December 2006 SEP event. Journal of Geophysical Research, 2010, $115$ , .	3.3	49
33	INTERPLANETARY PROPAGATION OF SOLAR ENERGETIC PARTICLE HEAVY IONS OBSERVED AT 1 AU AND THE ROLE OF ENERGY SCALING. Astrophysical Journal, 2012, 761, 104.	1.6	45
34	USING THE PATH CODE FOR MODELING GRADUAL SEP EVENTS IN THE INNER HELIOSPHERE. Astrophysical Journal, 2009, 693, 894-900.	1.6	44
35	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
36	Long-Term Fluences of Solar Energetic Particles from H to Fe. Space Science Reviews, 2007, 130, 323-328.	3.7	43

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37	The Role of Interplanetary Scattering in Western Hemisphere Large Solar Energetic Particle Events. Astrophysical Journal, 2006, 647, L65-L68.	1.6	41
38	<i>STEREO</i> OBSERVATIONS OF ENERGETIC NEUTRAL HYDROGEN ATOMS DURING THE 2006 DECEMBER 5 SOLAR FLARE. Astrophysical Journal, 2009, 693, L11-L15.	1.6	40
39	The Cosmicâ€Ray3He/4He Ratio from 200 MeV per Nucleonâ^'1to 3.7 GeV per Nucleonâ^'1. Astrophysical Journal, 1998, 496, 490-502.	1.6	38
40	THE LONGITUDINAL DEPENDENCE OF HEAVY-ION COMPOSITION IN THE 2013 APRIL 11 SOLAR ENERGETIC PARTICLE EVENT. Astrophysical Journal, 2014, 793, 35.	1.6	37
41	Validation of the effect of crossâ€calibrated GOES solar proton effective energies on derived integral fluxes by comparison with STEREO observations. Space Weather, 2017, 15, 290-309.	1.3	36
42	Observations of Jovian electrons at 1 AU. Journal of Geophysical Research, 1976, 81, 2397-2400.	3.3	34
43	SPECTRAL PROPERTIES OF LARGE GRADUAL SOLAR ENERGETIC PARTICLE EVENTS. II. SYSTEMATIC Q/M DEPENDENCE OF HEAVY ION SPECTRAL BREAKS. Astrophysical Journal, 2016, 828, 106.	1.6	34
44	Shock Connectivity and the Late Cycle 24 Solar Energetic Particle Events in July and September 2017. Space Weather, 2018, 16, 557-568.	1.3	34
45	Long-term fluences of energetic particles in the heliosphere. AIP Conference Proceedings, 2001, , .	0.3	33
46	The Solar Energetic Particle Event of 14 December 2006. Solar Physics, 2009, 256, 443-462.	1.0	32
47	Solar Elemental Composition Based on Studies of Solar Energetic Particles. Space Science Reviews, 2007, 130, 183-194.	3.7	31
48	ENERGETIC PARTICLE OBSERVATIONS AND PROPAGATION IN THE THREE-DIMENSIONAL HELIOSPHERE DURING THE 2006 DECEMBER EVENTS. Astrophysical Journal, 2009, 704, 469-476.	1.6	30
49	GALACTIC COSMIC RAY ORIGINS AND OB ASSOCIATIONS: EVIDENCE FROM SuperTIGER OBSERVATIONS OF ELEMENTS <sub>26</sub> Fe THROUGH <sub>40</sub> Zr. Astrophysical Journal, 2016, 831, 148.	1.6	30
50	Isotope abundances of solar coronal material derived from solar energetic particle measurements. Astrophysical Journal, 1989, 337, 959.	1.6	30
51	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
52	Properties of Suprathermal-through-energetic He Ions Associated with Stream Interaction Regions Observed over the Parker Solar Probe's First Two Orbits. Astrophysical Journal, Supplement Series, 2020, 246, 56.	3.0	29
53	Atmospheric production of radiation belt light isotopes. Journal of Geophysical Research, 1996, 101, 19745-19757.	3.3	27
54	<sup>3</sup> He-rich Solar Energetic Particle Observations at the Parker Solar Probe and near Earth. Astrophysical Journal, Supplement Series, 2020, 246, 42.	3.0	27

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55	OB Associations, Wolf–Rayet Stars, and the Origin of Galactic Cosmic Rays. Space Science Reviews, 2007, 130, 439-449.	3.7	26
56	Sampex observations of energetic hydrogen isotopes in the inner zone. Radiation Measurements, 1996, 26, 967-978.	0.7	25
57	Solar Isotopic Composition as Determined Using Solar Energetic Particles. Space Science Reviews, 2007, 130, 195-205.	3.7	25
58	The radial diffusion coefficient of 1.3―23 MeV protons in recurrent proton streams. Geophysical Research Letters, 1978, 5, 965-968.	1.5	24
59	The elemental and isotopic composition of galactic cosmic ray nuclei. Reviews of Geophysics, 1983, 21, 295-305.	9.0	22
60	Latitudinal Gradients of Galactic Cosmic Rays during the 2007 Solar Minimum. Astrophysical Journal, 2008, 689, 1443-1447.	1.6	22
61	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
62	Solar minimum spectra of galactic cosmic rays and their implications for models of the near-Earth radiation environment. Journal of Geophysical Research, 2001, 106, 29979-29987.	3.3	21
63	The isotopic composition of galactic cosmic-ray iron nuclei. Astrophysical Journal, 1980, 236, L121.	1.6	19
64	Charge States of Energetic Particles from Corotating Interaction Regions as Constraints on Their Source. Astrophysical Journal, 2002, 566, 555-561.	1.6	19
65	Elemental Fractionation in Small Solar Energetic Particle Events. Astrophysical Journal, 2003, 594, 592-604.	1.6	18
66	Characteristics of the spectra of protons and alpha particles in recurrent events at 1 Au. Geophysical Research Letters, 1979, 6, 589-592.	1.5	17
67	The Source Material for Large Solar Energetic Particle Events. , 2006, , 115.		17
68	Isotopic and elemental composition of the anomalous low-energy cosmic-ray fluxes. Astrophysical Journal, 1976, 205, 931.	1.6	17
69	The isotropic composition of cosmic ray B, C, N, and O nuclei. Astrophysical Journal, 1981, 251, L27.	1.6	17
70	Simulation of charge-equilibration and acceleration of solar energetic ions. AIP Conference Proceedings, 2000, , .	0.3	16
71	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
72	Unusual isotopic composition of solar energetic particles observed in the November 6, 1997 event. Geophysical Research Letters, 1999, 26, 153-156.	1.5	15

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73	A new view of energetic particles from stream interaction regions observed by Parker Solar Probe. Astronomy and Astrophysics, 2021, 650, A24.	2.1	15
74	Elemental Composition at the Cosmic-Ray Source Derived from the ACE-CRIS Instrument. I. <sub>6</sub> C to <sub>28</sub> Ni. Astrophysical Journal, 2018, 865, 69.	1.6	14
<b>7</b> 5	The Energy Spectrum of 0.16 to 2 MeV Electrons during Solar Quiet Times. Astrophysical Journal, 1974, 192, 541.	1.6	14
76	Modes of energy transfer from the solar wind to the inner magnetosphere. Physics of Plasmas, 2003, 10, 463-473.	0.7	12
77	HEAVY-ION FRACTIONATION IN THE IMPULSIVE SOLAR ENERGETIC PARTICLE EVENT OF 2002 AUGUST 20: ELEMENTS, ISOTOPES, AND INFERRED CHARGE STATES. Astrophysical Journal, 2010, 719, 1212-1229.	1.6	12
78	The ionic charge state composition at high energies in large solar energetic particle events in solar cycle 23. AIP Conference Proceedings, 2001, , .	0.3	11
79	Radial and latitudinal gradients of anomalous cosmic ray oxygen in the inner heliosphere. Geophysical Research Letters, 2009, 36, .	1.5	11
80	He-3 in galactic cosmic rays. Astrophysical Journal, 1986, 311, 979.	1.6	11
81	The isotopic composition of solar energetic particles. AIP Conference Proceedings, 2000, , .	0.3	9
82	Multipoint connectivity analysis of the May 2007 solar energetic particle events. Journal of Geophysical Research, 2010, 115, .	3.3	8
83	Variable fractionation of solar energetic particles according to first ionization potential. AIP Conference Proceedings, 2000, , .	0.3	6
84	Modulation of Jovian electrons at 1 AU during solar cycles 22-23. Geophysical Research Letters, 2003, 30, .	1.5	6
85	A Novel Technique to Infer Ionic Charge States of Solar Energetic Particles. Astrophysical Journal, 2008, 679, 910-919.	1.6	6
86	THE PHOSPHORUS, SULFUR, ARGON, AND CALCIUM ISOTOPIC COMPOSITION OF THE GALACTIC COSMIC RAY SOURCE. Astrophysical Journal, 2009, 695, 666-678.	1.6	6
87	Jovian, Solar, and other Possible Sources of Radiation Belt Particles. Geophysical Monograph Series, 0, , 49-55.	0.1	6
88	TIME EVOLUTION OF ELEMENTAL RATIOS IN SOLAR ENERGETIC PARTICLE EVENTS. Astrophysical Journal, 2017, 835, 71.	1.6	6
89	Isotopic abundances in the solar corona as inferred from ACE measurements of solar energetic particles. AIP Conference Proceedings, 2001, , .	0.3	5
90	A model of the secondary radiation belt. Journal of Geophysical Research, 2008, 113, .	3.3	5

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91	The Coronal Isotopic Composition as Determined Using Solar Energetic Particles. AIP Conference Proceedings, 2003, , .	0.3	4
92	Long-Term Fluences of Solar Energetic Particles from H to Fe. Space Sciences Series of ISSI, 2007, , 323-328.	0.0	4
93	Evidence for Energetic Neutral Hydrogen Emission from Solar Particle Events. Astrophysical Journal, 2021, 923, 195.	1.6	4
94	Suprathermal Ion Energy Spectra and Anisotropies near the Heliospheric Current Sheet Crossing Observed by the Parker Solar Probe during Encounter 7. Astrophysical Journal, 2022, 927, 62.	1.6	3
95	Heliospheric Transport of Neutron-Decay Protons. Solar Physics, 2012, 281, 449.	1.0	2
96	On the Differences in Composition between Solar Energetic Particles and Solar Wind. Space Sciences Series of ISSI, 2007, , 207-219.	0.0	2
97	First Measurements of Jovian Electrons by Parker Solar Probe/IS⊙IS within 0.5 au of the Sun. Astrophysical Journal, 2022, 933, 171.	1.6	2
98	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
99	The Low-Energy Telescope (LET) and SEP Central Electronics for the STEREO Mission. , 2008, , 285-362.		1
100	Shock Acceleration of Ions in the Heliosphere. Space Sciences Series of ISSI, 2012, , 247-281.	0.0	1
101	OB Associations, Wolf–Rayet Stars, and the Origin of Galactic Cosmic Rays. Space Sciences Series of ISSI, 2007, , 439-449.	0.0	0
102	Solar Isotopic Composition as Determined Using Solar Energetic Particles. Space Sciences Series of ISSI, 2007, , 195-205.	0.0	0
103	Solar Elemental Composition Based on Studies of Solar Energetic Particles. Space Sciences Series of ISSI, 2007, , 183-194.	0.0	O