

Eric Christian

List of Publications by Year in descending order

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128
papers

6,386
citations

117453

34
h-index

66788

78
g-index

133
all docs

133
docs citations

133
times ranked

3913
citing authors

#	ARTICLE	IF	CITATIONS
1	The STEREO Mission: An Introduction. <i>Space Science Reviews</i> , 2008, 136, 5-16.	3.7	1,242
2	The Advanced Composition Explorer. <i>Space Science Reviews</i> , 1998, 86, 1-22.	3.7	784
3	Global Observations of the Interstellar Interaction from the Interstellar Boundary Explorer (IBEX). <i>Science</i> , 2009, 326, 959-962.	6.0	461
4	>â€‰25 MeV Proton Events Observed by the High Energy Telescopes on the STEREO A and B Spacecraft and/or at Earth During the First ¼â€‰Seven Years of the STEREO Mission. <i>Solar Physics</i> , 2014, 289, 3059-3107.	1.0	195
5	Measurement of the Secondary Radionuclides ¹⁰ Be, ²⁶ Al, ³⁶ Cl, ⁵⁴ Mn, and ¹⁴ C and Implications for the Galactic Cosmicâ€‰Ray Age. <i>Astrophysical Journal</i> , 2001, 563, 768-792.	1.6	187
6	RECORD-SETTING COSMIC-RAY INTENSITIES IN 2009 AND 2010. <i>Astrophysical Journal Letters</i> , 2010, 723, L1-L6.	3.0	159
7	SEPARATION OF THE <i>INTERSTELLAR BOUNDARY EXPLORER</i> RIBBON FROM GLOBALLY DISTRIBUTED ENERGETIC NEUTRAL ATOM FLUX. <i>Astrophysical Journal</i> , 2011, 731, 56.	1.6	153
8	The Absolute Flux of Protons and Helium at the Top of the Atmosphere Using IMAX. <i>Astrophysical Journal</i> , 2000, 533, 281-297.	1.6	146
9	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
10	Interstellar Mapping and Acceleration Probe (IMAP): A New NASA Mission. <i>Space Science Reviews</i> , 2018, 214, 1.	3.7	129
11	Measurement of 0.25â€‰â€“â€‰3.2 GeV Antiprotons in the Cosmic Radiation. <i>Physical Review Letters</i> , 1996, 76, 3057-3060.	2.9	124
12	Proton Irradiation of Centaur, Kuiper Belt, and Oort Cloud Objects at Plasma to Cosmic Ray Energy. <i>Earth, Moon and Planets</i> , 2003, 92, 261-277.	0.3	109
13	Spectral Properties of He and Heavy Ions in ³ Heâ€‰rich Solar Flares. <i>Astrophysical Journal</i> , 2002, 574, 1039-1058.	1.6	107
14	Probing the energetic particle environment near the Sun. <i>Nature</i> , 2019, 576, 223-227.	13.7	103
15	Measurement of the Abundance of Radioactive ¹⁰ Be and Other Light Isotopes in Cosmic Radiation up to 2 GeV Nucleon ⁻¹ with the Balloonâ€‰borne Instrument ISOMAX. <i>Astrophysical Journal</i> , 2004, 611, 892-905.	1.6	101
16	Global Anisotropies in TeV Cosmic Rays Related to the Sunâ€™s Local Galactic Environment from IBEX. <i>Science</i> , 2014, 343, 988-990.	6.0	98
17	Observation of the ⁶⁰ Fe nucleosynthesis-clock isotope in galactic cosmic rays. <i>Science</i> , 2016, 352, 677-680.	6.0	98
18	SEPARATION OF THE RIBBON FROM GLOBALLY DISTRIBUTED ENERGETIC NEUTRAL ATOM FLUX USING THE FIRST FIVE YEARS OF <i>IBEX</i> OBSERVATIONS. <i>Astrophysical Journal, Supplement Series</i> , 2014, 215, 13.	3.0	97

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19	Constraints on the Time Delay between Nucleosynthesis and Cosmic-Ray Acceleration from Observations of $^{59}\text{Ni}/^{59}\text{Ni}_{\text{CLC}}$ and $^{59}\text{Co}/^{59}\text{Co}_{\text{CLC}}$. <i>Astrophysical Journal</i> , 1999, 523, L61-L64.	1.6	91
20	New observations of heavy-ion-rich solar particle events from ACE. <i>Geophysical Research Letters</i> , 1999, 26, 2697-2700.	1.5	89
21	COSMIC RAY ORIGIN IN OB ASSOCIATIONS AND PREFERENTIAL ACCELERATION OF REFRACTORY ELEMENTS: EVIDENCE FROM ABUNDANCES OF ELEMENTS ^{26}Fe THROUGH ^{34}Se . <i>Astrophysical Journal</i> , 2009, 697, 2083-2088.	1.6	64
22	Solar Energetic Particle Events Observed by the PAMELA Mission. <i>Astrophysical Journal</i> , 2018, 862, 97.	1.6	63
23	Evidence for anomalous cosmic-ray hydrogen. <i>Astrophysical Journal</i> , 1988, 334, L77.	1.6	55
24	Ion irradiation of TNOs: from the fluxes measured in space to the laboratory experiments. <i>Comptes Rendus Physique</i> , 2003, 4, 791-801.	0.3	54
25	Inferred charge states of high energy solar particles from the solar isotope spectrometer on ACE. <i>Geophysical Research Letters</i> , 1999, 26, 149-152.	1.5	53
26	GALACTIC COSMIC-RAY ENERGY SPECTRA AND COMPOSITION DURING THE 2009-2010 SOLAR MINIMUM PERIOD. <i>Astrophysical Journal</i> , 2013, 770, 117.	1.6	51
27	The Near-Sun Dust Environment: Initial Observations from Parker Solar Probe. <i>Astrophysical Journal</i> , Supplement Series, 2020, 246, 27.	3.0	47
28	Observations of the Li, Be, and B isotopes and constraints on cosmic-ray propagation. <i>Advances in Space Research</i> , 2006, 38, 1558-1564.	1.2	45
29	Solar Wind Streams and Stream Interaction Regions Observed by the Parker Solar Probe with Corresponding Observations at 1 au. <i>Astrophysical Journal</i> , Supplement Series, 2020, 246, 36.	3.0	43
30	Fractionation of solar energetic particles and solar wind according to first ionization potential. <i>Advances in Space Research</i> , 2002, 30, 79-84.	1.2	41
31	The Cosmic-Ray $^3\text{He}/^4\text{He}$ Ratio from 200 MeV per Nucleon to 3.7 GeV per Nucleon. <i>Astrophysical Journal</i> , 1998, 496, 490-502.	1.6	38
32	Time Dependence of the IBEX Ribbon and the Globally Distributed Energetic Neutral Atom Flux Using the First 9 Years of Observations. <i>Astrophysical Journal</i> , Supplement Series, 2018, 239, 1.	3.0	37
33	Spectral Analysis of the September 2017 Solar Energetic Particle Events. <i>Space Weather</i> , 2019, 17, 419-437.	1.3	37
34	High-Resolution Measurements of the Cross-Shock Potential, Ion Reflection, and Electron Heating at an Interplanetary Shock by MMS. <i>Journal of Geophysical Research: Space Physics</i> , 2019, 124, 3961-3978.	0.8	36
35	On the low energy decrease in galactic cosmic ray secondary/primary ratios. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	35
36	Solar Energetic Particles Produced by a Slow Coronal Mass Ejection at ~ 0.25 au. <i>Astrophysical Journal</i> , Supplement Series, 2020, 246, 29.	3.0	35

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37	Long-term fluences of energetic particles in the heliosphere. AIP Conference Proceedings, 2001, , .	0.3	33
38	Comparing Long-duration Gamma-Ray Flares and High-energy Solar Energetic Particles. Astrophysical Journal, 2019, 879, 90.	1.6	33
39	Energetic Particle Increases Associated with Stream Interaction Regions. Astrophysical Journal, Supplement Series, 2020, 246, 20.	3.0	31
40	The Cosmic-Ray Isotope Spectrometer for the Advanced Composition Explorer. , 1998, , 285-356.		30
41	ON THE STABILITY OF PICK-UP ION RING DISTRIBUTIONS IN THE OUTER HELIOSHEATH. Astrophysical Journal, 2014, 793, 93.	1.6	29
42	Properties of Suprathermal-through-energetic He Ions Associated with Stream Interaction Regions Observed over the Parker Solar Probeâ€™s First Two Orbits. Astrophysical Journal, Supplement Series, 2020, 246, 56.	3.0	29
43	PAMELAâ€™S MEASUREMENTS OF MAGNETOSPHERIC EFFECTS ON HIGH-ENERGY SOLAR PARTICLES. Astrophysical Journal Letters, 2015, 801, L3.	3.0	27
44	DISTANCE TO THE IBEX RIBBON SOURCE INFERRED FROM PARALLAX. Astrophysical Journal, 2016, 823, 119.	1.6	27
45	³ He-rich Solar Energetic Particle Observations at the Parker Solar Probe and near Earth. Astrophysical Journal, Supplement Series, 2020, 246, 42.	3.0	27
46	Observations of the 2019 April 4 Solar Energetic Particle Event at the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 35.	3.0	27
47	Observations of Anomalous Cosmic-Ray Hydrogen from the Voyager Spacecraft. Astrophysical Journal, 1995, 446, L105.	1.6	27
48	Observations of Energetic-particle Population Enhancements along Intermittent Structures near the Sun from the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 61.	3.0	25
49	Small, Low-energy, Dispersive Solar Energetic Particle Events Observed by <i>Parker Solar Probe</i> . Astrophysical Journal, Supplement Series, 2020, 246, 65.	3.0	23
50	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
51	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
52	CME-associated Energetic Ions at 0.23 au: Consideration of the Auroral Pressure Cooker Mechanism Operating in the Low Corona as a Possible Energization Process. Astrophysical Journal, Supplement Series, 2020, 246, 59.	3.0	21
53	Seed Population Preconditioning and Acceleration Observed by the Parker Solar Probe. Astrophysical Journal, Supplement Series, 2020, 246, 33.	3.0	21
54	The Hohmannâ€™Parker effect measured by the Mars Science Laboratory on the transfer from Earth to Mars: Consequences and opportunities. Planetary and Space Science, 2013, 89, 127-139.	0.9	20

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55	Magnetic field line random walk and solar energetic particle path lengths. <i>Astronomy and Astrophysics</i> , 2021, 650, A26.	2.1	20
56	Elemental Fractionation in Small Solar Energetic Particle Events. <i>Astrophysical Journal</i> , 2003, 594, 592-604.	1.6	18
57	Large Proton Anisotropies in the 18 August 2010 Solar Particle Event. <i>Solar Physics</i> , 2012, 281, 301-318.	1.0	17
58	Energetic Particle Observations from the Parker Solar Probe Using Combined Energy Spectra from the ISÅS TM IS Instrument Suite. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 41.	3.0	17
59	Energetic Electron Observations by Parker Solar Probe/ISÅS TM IS during the First Widespread SEP Event of Solar Cycle 25 on 2020 November 29. <i>Astrophysical Journal</i> , 2021, 919, 119.	1.6	17
60	Heliospheric cosmic ray irradiation of Kuiper Belt comets. <i>Advances in Space Research</i> , 1998, 21, 1611-1614.	1.2	16
61	Forecasting the arrival of shock-accelerated solar energetic particles at Earth. <i>Journal of Geophysical Research</i> , 2001, 106, 20979-20983.	3.3	16
62	Radial Evolution of a CIR: Observations From a Nearly Radially Aligned Event Between Parker Solar Probe and STEREO. <i>Geophysical Research Letters</i> , 2021, 48, e2020GL091376.	1.5	16
63	Unusual isotopic composition of solar energetic particles observed in the November 6, 1997 event. <i>Geophysical Research Letters</i> , 1999, 26, 153-156.	1.5	15
64	A measurement of cosmic ray deuterium from 0.5–2.9 GeV/nucleon. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	15
65	Simulations of plasma obeying Coulomb's law and the formation of suprathermal ion tails in the solar wind. <i>Journal of Geophysical Research: Space Physics</i> , 2014, 119, 7025-7037.	0.8	15
66	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
67	PSP/ISÅS TM IS observations of the 29 November 2020 solar energetic particle event. <i>Astronomy and Astrophysics</i> , 2021, 656, A29.	2.1	15
68	The Solar Isotope Spectrometer for the Advanced Composition Explorer. , 1998, , 357-408.		15
69	An evaluation of needle biopsy of the liver. <i>American Journal of Medicine</i> , 1952, 13, 689-703.	0.6	14
70	NIGHTGLOW: an instrument to measure the Earth's nighttime ultraviolet glow—results from the first engineering flight. <i>Astroparticle Physics</i> , 2005, 22, 439-449.	1.9	14
71	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
72	Time evolution of stream interaction region energetic particle spectra in the inner heliosphere. <i>Astronomy and Astrophysics</i> , 2021, 650, L5.	2.1	14

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73	Solar energetic particle heavy ion properties in the widespread event of 2020 November 29. <i>Astronomy and Astrophysics</i> , 2021, 656, L12.	2.1	13
74	Parker Solar Probe observations of He/H abundance variations in SEP events inside 0.5 au. <i>Astronomy and Astrophysics</i> , 2021, 650, A23.	2.1	13
75	The ALICE instrument and the measured cosmic ray elemental abundances. <i>Astroparticle Physics</i> , 1992, 1, 33-45.	1.9	12
76	Energetic particle behavior in near-Sun magnetic field switchbacks from PSP. <i>Astronomy and Astrophysics</i> , 2021, 650, L4.	2.1	12
77	Comparative Analysis of the 2020 November 29 Solar Energetic Particle Event Observed by Parker Solar Probe. <i>Astrophysical Journal</i> , 2021, 920, 123.	1.6	12
78	Anomalous Cosmic-Ray Oxygen Observations into 0.1 au. <i>Astrophysical Journal</i> , 2022, 925, 9.	1.6	12
79	Cosmic ray energy loss in the heliosphere: Direct evidence from electron-capture-decay secondary isotopes. <i>Journal of Geophysical Research</i> , 2003, 108, LIS 8-1-LIS 8-9.	3.3	11
80	Cosmic-ray time scales using radioactive clocks. <i>Advances in Space Research</i> , 2001, 27, 727-736.	1.2	10
81	First Observations of Anomalous Cosmic Rays in to 36 Solar Radii. <i>Astrophysical Journal</i> , 2021, 912, 139.	1.6	10
82	Parker Solar Probe observations of helical structures as boundaries for energetic particles. <i>Monthly Notices of the Royal Astronomical Society</i> , 2021, 508, 2114-2122.	1.6	10
83	Energetic Particles Associated with a Coronal Mass Ejection Shock Interacting with a Convected Magnetic Structure. <i>Astrophysical Journal</i> , 2021, 921, 102.	1.6	10
84	The isotopic composition of solar energetic particles. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	9
85	Energetic particle evolution during coronal mass ejection passage from 0.3 to 1 AU. <i>Astronomy and Astrophysics</i> , 0, , .	2.1	9
86	Small Electron Events Observed by Parker Solar Probe/ISÅ™MIS during Encounter 2. <i>Astrophysical Journal</i> , 2020, 902, 20.	1.6	9
87	The Origin of Primary Cosmic Rays: Constraints from ACE Elemental and Isotopic Composition Observations. <i>Space Sciences Series of ISSI</i> , 2001, , 15-26.	0.0	9
88	Large diameter lithium compensated silicon detectors for the NASA Advanced Composition Explorer (ACE) mission. <i>IEEE Transactions on Nuclear Science</i> , 1996, 43, 1505-1509.	1.2	8
89	Secondary electron-capture-decay isotopes and implications for the propagation of galactic cosmic rays. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	8
90	Cosmic ray source abundances and the acceleration of cosmic rays. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	8

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91	GCR neon isotopic abundances: Comparison with wolf-rayet star models and meteoritic abundances. AIP Conference Proceedings, 2001, , .	0.3	8
92	Proton Irradiation of Centaur, Kuiper Belt, and Oort Cloud Objects at Plasma to Cosmic Ray Energy. , 2004, , 261-277.		8
93	Variable fractionation of solar energetic particles according to first ionization potential. AIP Conference Proceedings, 2000, , .	0.3	6
94	<title>Characterization of large-area silicon ionization detectors for the ACE mission</title>. , 1996, , .		5
95	Observations of anomalous cosmic rays at 1 AU. AIP Conference Proceedings, 2000, , .	0.3	5
96	Isotopic abundances in the solar corona as inferred from ACE measurements of solar energetic particles. AIP Conference Proceedings, 2001, , .	0.3	5
97	A Consistent Scenario for the IBEX Ribbon, Anisotropies in TeV Cosmic Rays, and the Local Interstellar Medium. ASTRA Proceedings, 0, 2, 9-16.	0.0	5
98	<title>Two-dimensional position-sensitive silicon detectors for the ACE Solar Isotope Spectrometer</title>. , 1996, , .		4
99	The solar energetic particle event of 6 May 1998. AIP Conference Proceedings, 2000, , .	0.3	4
100	Galactic cosmic ray neon isotopic abundances measured on ACE. AIP Conference Proceedings, 2000, , .	0.3	4
101	Constraints on the nucleosynthesis of refractory nuclides in galactic cosmic rays. AIP Conference Proceedings, 2001, , .	0.3	4
102	The Coronal Isotopic Composition as Determined Using Solar Energetic Particles. AIP Conference Proceedings, 2003, , .	0.3	4
103	<title>Maximum-energy Auger-shower satellite (MASS/AIRWATCH)</title>. , 1996, , .		3
104	Constraints on cosmic-ray acceleration and transport from isotope observations. AIP Conference Proceedings, 2000, , .	0.3	3
105	Solar coronal abundances of rare elements based on solar energetic particles. AIP Conference Proceedings, 2001, , .	0.3	3
106	A survey of anisotropic energetic particle flows observed by STEREO. , 2013, , .		3
107	Thin silicon solid-state detectors for energetic particle measurements. Astronomy and Astrophysics, 2021, 650, A27.	2.1	3
108	PSP/ISaŠ™IS Observation of a Solar Energetic Particle Event Associated with a Streamer Blowout Coronal Mass Ejection during Encounter 6. Astrophysical Journal, 2022, 925, 212.	1.6	3

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109	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
110	The phosphorus/sulfur abundance ratio as a test of galactic cosmic-ray source models. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	2
111	Time variations in elemental abundances in solar energetic particle events. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	2
112	First Measurements of Jovian Electrons by Parker Solar Probe/ISÅŠ TM IS within 0.5 au of the Sun. <i>Astrophysical Journal</i> , 2022, 933, 171.	1.6	2
113	Time variations of the modulation of anomalous and galactic cosmic rays. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	1
114	Galactic abundances: Report of working group 3. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	1
115	Measurements of the isotopes of lithium, beryllium, and boron from ACE/CRIS. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	1
116	Measurements of heavy elements and isotopes in small solar energetic particle events. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	1
117	Observations of the longitudinal spread of solar energetic particle events in solar cycle 24. <i>AIP Conference Proceedings</i> , 2012, , .	0.3	1
118	Astromag: Current capabilities and status. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1990, 14, 3-21.	0.5	0
119	Polar rain entry of galactic electrons into the inner heliosphere?. <i>Space Science Reviews</i> , 1995, 72, 415-418.	3.7	0
120	<title>Energetic trans-iron composition explorer (ENTICE): a mission concept</title>. , 1996, 2806, 90.		0
121	Scintillating fibers and their use in the Cosmic Ray Isotope Spectrometer (CRIS) on the Advanced Composition Explorer (ACE). , 1998, , .		0
122	The use of optical fibers in the Trans Iron Galactic Element Recorder (TIGER). , 1998, , .		0
123	Co/Ni element ratio in the galactic cosmic rays between 0.8 and 4.3 GeV/nucleon. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	0
124	Abundances of the cosmic ray \hat{I}^2 -decay secondaries and implications for cosmic ray transport. <i>AIP Conference Proceedings</i> , 2000, , .	0.3	0
125	The cosmic-ray contribution to galactic abundances of the light elements: Interpretation of GCR LiBeB abundance measurements from ACE/CRIS. <i>AIP Conference Proceedings</i> , 2001, , .	0.3	0
126	Fifteen years of science and space weather studies. <i>Eos</i> , 2012, 93, 385-386.	0.1	0

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127	Energetic neutral atom and interstellar flow observations with IBEX: Implications for the global heliosphere. AIP Conference Proceedings, 2016, , .	0.3	0
128	Radioactive Clocks and Cosmic-Ray Transport in the Galaxy. Space Sciences Series of ISSI, 2001, , 27-39.	0.0	0