

# Alan C Cummings

## List of Publications by Year in descending order

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55  
papers

3,823  
citations

201674

27  
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149698

56  
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all docs

56  
docs citations

56  
times ranked

2036  
citing authors

#	ARTICLE	IF	CITATIONS
1	Anomalous Cosmic-Ray Oxygen Observations into 0.1 au. <i>Astrophysical Journal</i> , 2022, 925, 9.	4.5	12
2	Galactic Cosmic Rays Throughout the Heliosphere and in the Very Local Interstellar Medium. <i>Space Science Reviews</i> , 2022, 218, .	8.1	11
3	First Measurements of Jovian Electrons by Parker Solar Probe/IS <sup>3</sup> TMIS within 0.5 au of the Sun. <i>Astrophysical Journal</i> , 2022, 933, 171.	4.5	2
4	First Observations of Anomalous Cosmic Rays in to 36 Solar Radii. <i>Astrophysical Journal</i> , 2021, 912, 139.	4.5	10
5	Thin silicon solid-state detectors for energetic particle measurements. <i>Astronomy and Astrophysics</i> , 2021, 650, A27.	5.1	3
6	Parker Solar Probe observations of He/H abundance variations in SEP events inside 0.5 au. <i>Astronomy and Astrophysics</i> , 2021, 650, A23.	5.1	13
7	Magnetic field line random walk and solar energetic particle path lengths. <i>Astronomy and Astrophysics</i> , 2021, 650, A26.	5.1	20
8	Time evolution of stream interaction region energetic particle spectra in the inner heliosphere. <i>Astronomy and Astrophysics</i> , 2021, 650, L5.	5.1	14
9	PSP/IS <sup>3</sup> TMIS observations of the 29 November 2020 solar energetic particle event. <i>Astronomy and Astrophysics</i> , 2021, 656, A29.	5.1	15
10	No Stagnation Region before the Heliopause at Voyager 1? Inferences from New Voyager 2 Results. <i>Astrophysical Journal</i> , 2021, 906, 126.	4.5	8
11	A Foreshock Model for Interstellar Shocks of Solar Origin: Voyager 1 and 2 Observations. <i>Astronomical Journal</i> , 2021, 161, 11.	4.7	21
12	Using Magnetic Flux Conservation to Determine Heliosheath Speeds. <i>Astrophysical Journal Letters</i> , 2021, 919, L28.	8.3	5
13	Voyager 2 Observations Near the Heliopause. <i>Journal of Physics: Conference Series</i> , 2020, 1620, 012016.	0.4	3
14	Energetic Particle Observations from the Parker Solar Probe Using Combined Energy Spectra from the IS <sup>3</sup> TMIS Instrument Suite. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 41.	7.7	17
15	<sup>3</sup> He-rich Solar Energetic Particle Observations at the Parker Solar Probe and near Earth. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 42.	7.7	27
16	Energetic Particle Increases Associated with Stream Interaction Regions. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 20.	7.7	31
17	Seed Population Preconditioning and Acceleration Observed by the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 33.	7.7	21
18	Observations of the 2019 April 4 Solar Energetic Particle Event at the Parker Solar Probe. <i>Astrophysical Journal, Supplement Series</i> , 2020, 246, 35.	7.7	27

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19	Combined $\sim 10$ eV to $\sim 344$ MeV Particle Spectra and Pressures in the Heliosheath along the Voyager 2 Trajectory. <i>Astrophysical Journal Letters</i> , 2020, 905, L24.	8.3	24
20	Cosmic ray measurements from Voyager 2 as it crossed into interstellar space. <i>Nature Astronomy</i> , 2019, 3, 1013-1018.	10.1	115
21	Galactic Cosmic-Ray Anisotropies: Voyager 1 in the Local Interstellar Medium. <i>Astrophysical Journal</i> , 2019, 873, 46.	4.5	16
22	Probing the energetic particle environment near the Sun. <i>Nature</i> , 2019, 576, 223-227.	27.8	103
23	Voyager 2 Observations of Plasma and Pressure Pulses. <i>Journal of Physics: Conference Series</i> , 2018, 1100, 012019.	0.4	3
24	Elemental Composition at the Cosmic-Ray Source Derived from the ACE-CRIS Instrument. I. $^{12}\text{C}$ to $^{28}\text{Ni}$ . <i>Astrophysical Journal</i> , 2018, 865, 69.	4.5	14
25	GALACTIC COSMIC RAYS IN THE LOCAL INTERSTELLAR MEDIUM: VOYAGER 1 OBSERVATIONS AND MODEL RESULTS. <i>Astrophysical Journal</i> , 2016, 831, 18.	4.5	320
26	Observation of the $^{60}\text{Fe}$ nucleosynthesis-clock isotope in galactic cosmic rays. <i>Science</i> , 2016, 352, 677-680.	12.6	98
27	Integrated Science Investigation of the Sun (ISIS): Design of the Energetic Particle Investigation. <i>Space Science Reviews</i> , 2016, 204, 187-256.	8.1	139
28	PRECURSORS TO INTERSTELLAR SHOCKS OF SOLAR ORIGIN. <i>Astrophysical Journal</i> , 2015, 809, 121.	4.5	68
29	ENERGETIC PARTICLE ANISOTROPIES AT THE HELIOSPHERIC BOUNDARY. II. TRANSIENT FEATURES AND RIGIDITY DEPENDENCE. <i>Astrophysical Journal</i> , 2015, 803, 47.	4.5	19
30	Anomalous and Galactic Cosmic Rays at 1 AU During the Cycle 23/24 Solar Minimum. <i>Space Science Reviews</i> , 2013, 176, 253-263.	8.1	34
31	Voyager 1 Observes Low-Energy Galactic Cosmic Rays in a Region Depleted of Heliospheric Ions. <i>Science</i> , 2013, 341, 150-153.	12.6	456
32	GALACTIC COSMIC-RAY ENERGY SPECTRA AND COMPOSITION DURING THE 2009-2010 SOLAR MINIMUM PERIOD. <i>Astrophysical Journal</i> , 2013, 770, 117.	4.5	51
33	Anomalous cosmic rays. <i>AIP Conference Proceedings</i> , 2013, , .	0.4	6
34	RECORD-SETTING COSMIC-RAY INTENSITIES IN 2009 AND 2010. <i>Astrophysical Journal Letters</i> , 2010, 723, L1-L6.	8.3	159
35	ELEMENTAL COMPOSITION AND ENERGY SPECTRA OF GALACTIC COSMIC RAYS DURING SOLAR CYCLE 23. <i>Astrophysical Journal</i> , 2009, 698, 1666-1681.	4.5	103
36	Radial and latitudinal gradients of anomalous cosmic ray oxygen in the inner heliosphere. <i>Geophysical Research Letters</i> , 2009, 36, .	4.0	11

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37	The Low-Energy Telescope (LET) and SEP Central Electronics for the STEREO Mission. <i>Space Science Reviews</i> , 2008, 136, 285-362.	8.1	101
38	An asymmetric solar wind termination shock. <i>Nature</i> , 2008, 454, 71-74.	27.8	322
39	The High Energy Telescope for STEREO. <i>Space Science Reviews</i> , 2008, 136, 391-435.	8.1	96
40	Composition of Anomalous Cosmic Rays. <i>Space Science Reviews</i> , 2007, 130, 389-399.	8.1	27
41	OB Associations, Wolf-Rayet Stars, and the Origin of Galactic Cosmic Rays. <i>Space Science Reviews</i> , 2007, 130, 439-449.	8.1	26
42	An Overview of the Origin of Galactic Cosmic Rays as Inferred from Observations of Heavy Ion Composition and Spectra. <i>Space Science Reviews</i> , 2007, 130, 415-429.	8.1	29
43	Cosmic-Ray Neon, Wolf-Rayet Stars, and the Superbubble Origin of Galactic Cosmic Rays. <i>Astrophysical Journal</i> , 2005, 634, 351-364.	4.5	99
44	Observations of Energetic Ions and Electrons in the Distant Heliosphere: 2001 – 2005.0. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	1
45	Voyager 1 Explores the Termination Shock Region and the Heliosheath Beyond. <i>Science</i> , 2005, 309, 2017-2020.	12.6	480
46	Enhancements of energetic particles near the heliospheric termination shock. <i>Nature</i> , 2003, 426, 48-51.	27.8	136
47	Elemental Fractionation in Small Solar Energetic Particle Events. <i>Astrophysical Journal</i> , 2003, 594, 592-604.	4.5	18
48	Composition of Anomalous Cosmic Rays and Other Heliospheric Ions. <i>Astrophysical Journal</i> , 2002, 578, 194-210.	4.5	125
49	Spectral Properties of He and Heavy Ions in $^3\text{He}$ -rich Solar Flares. <i>Astrophysical Journal</i> , 2002, 574, 1039-1058.	4.5	107
50	On the low energy decrease in galactic cosmic ray secondary/primary ratios. <i>AIP Conference Proceedings</i> , 2000, , .	0.4	35
51	Global Processes that Determine Cosmic Ray Modulation. <i>Space Science Reviews</i> , 1998, 83, 179-214.	8.1	23
52	Anomalous cosmic ray oxygen gradients throughout the heliosphere. <i>Geophysical Research Letters</i> , 1995, 22, 341-344.	4.0	41
53	Evidence for anomalous cosmic-ray hydrogen. <i>Astrophysical Journal</i> , 1988, 334, L77.	4.5	55
54	Latitudinal and radial gradients of anomalous and galactic cosmic rays in the outer heliosphere. <i>Geophysical Research Letters</i> , 1987, 14, 174-177.	4.0	79

#	ARTICLE	IF	CITATIONS
55	The Voyager Cosmic Ray Experiment. IEEE Transactions on Nuclear Science, 1979, 26, 513-520.	2.0	16