Eun-Suk Seo

List of Publications by Year
in descending order

92 papers	8,125 citations	101543 36 h-index	49909 87 g-index
94 all docs	94 docs citations	94 times ranked	7309 citing authors

#	Article	IF	Citations
1	An excess of cosmic ray electrons at energies of 300â€“800â€‰GeV. Nature, 2008, 456, 362-365.	27.8	861
2	First Result from the Alpha Magnetic Spectrometer on the International Space Station: Precision Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5â€“350 GeV. Physical Review Letters, 2013, 110, 141102.	7.8	852
3	Precision Measurement of the Proton Flux in Primary Cosmic Rays from Rigidity 1ÂGV to 1.8 TV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2015, 114, 171103.	7.8	655
4	High Statistics Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5â€“500ÂGeV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2014, 113, 121101.	7.8	428
5	Electron and Positron Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2014, 113, 121102.	7.8	397
6	Precision Measurement of the Helium Flux in Primary Cosmic Rays of Rigidities 1.9ÂGV to 3ÂTV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2015, 115, 211101.	7.8	369
7	The Alpha Magnetic Spectrometer (AMS) on the International Space Station: Part I â€“ results from the test flight on the space shuttle. Physics Reports, 2002, 366, 331-405.	25.6	366
8	DISCREPANT HARDENING OBSERVED IN COSMIC-RAY ELEMENTAL SPECTRA. Astrophysical Journal Letters, 2010, 714, L89-L93.	8.3	314
9	COSMIC-RAY PROTON AND HELIUM SPECTRA FROM THE FIRST CREAM FLIGHT. Astrophysical Journal, 2011, 728, 122.	4.5	290
10	Energy spectra of abundant nuclei of primary cosmic rays from the data of ATIC-2 experiment: Final results. Bulletin of the Russian Academy of Sciences: Physics, 2009, 73, 564-567.	0.6	273
11	Precision Measurement of the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mo stretchy="false">(</mml:mo><mml:msup><mml:mi>e</mml:mi><mml:mo>+</mml:mo></mml:msup><mml:mo>+</mml:mo><mml:m Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2014, 113,	7.8	238
12	Precision Measurement of the Boron to Carbon Flux Ratio in Cosmic Rays from 1.9ÂGV to 2.6ÂTV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2016, 117, 231102.	7.8	236
13	Observation of the Identical Rigidity Dependence of He, C, and O Cosmic Rays at High Rigidities by the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2017, 119, 251101.	7.8	204
14	SPECTRUM OF GALACTIC COSMIC RAYS ACCELERATED IN SUPERNOVA REMNANTS. Astrophysical Journal, 2010, 718, 31-36.	4.5	170
15	Proton and Helium Spectra from the CREAM-III Flight. Astrophysical Journal, 2017, 839, 5.	4.5	169
16	Measurements of 0.2â€“20GeV/n cosmic-ray proton and helium spectra from 1997 through 2002 with the BESS spectrometer. Astroparticle Physics, 2007, 28, 154-167.	4.3	168
17	Measurements of cosmic-ray secondary nuclei at high energies with the first flight of the CREAM balloon-borne experiment. Astroparticle Physics, 2008, 30, 133-141.	4.3	167
18	ENERGY SPECTRA OF COSMIC-RAY NUCLEI AT HIGH ENERGIES. Astrophysical Journal, 2009, 707, 593-603.	4.5	160

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19	The Alpha Magnetic Spectrometer (AMS) on the international space station: Part II â€”ÂResults from the first seven years. Physics Reports, 2021, 894, 1-116.	25.6	160
20	Successive measurements of cosmic-ray antiproton spectrum in a positive phase of the solar cycle. Astroparticle Physics, 2001, 16, 121-128.	4.3	124
21	Towards Understanding the Origin of Cosmic-Ray Electrons. Physical Review Letters, 2019, 122, 101101.	7.8	109
22	Elemental energy spectra of cosmic rays from the data of the ATIC-2 experiment. Bulletin of the Russian Academy of Sciences: Physics, 2007, 71, 494-497.	0.6	97
23	Measurement of Cosmicâ€Ray Hydrogen and Helium and Their Isotopic Composition with the BESS Experiment. Astrophysical Journal, 2002, 564, 244-259.	4.5	90
24	SPECTRA OF COSMIC-RAY PROTONS AND HELIUM PRODUCED IN SUPERNOVA REMNANTS. Astrophysical Journal, 2013, 763, 47.	4.5	84
25	Cosmicâ€Ray Antiproton Flux in the Energy Range from 200 to 600 MeV. Astrophysical Journal, 1997, 474, 479-489.	4.5	71
26	THE ORIGIN OF COSMIC RAYS: EXPLOSIONS OF MASSIVE STARS WITH MAGNETIC WINDS AND THEIR SUPERNOVA MECHANISM. Astrophysical Journal, 2010, 725, 184-187.	4.5	71
27	Precise measurements of atmospheric muon fluxes with the BESS spectrometer. Astroparticle Physics, 2003, 19, 113-126.	4.3	60
28	Effect of random nature of cosmic ray sources â€“ Supernova remnants â€“ on cosmic ray intensity fluctuations, anisotropy, and electron energy spectrum. Advances in Space Research, 2006, 37, 1909-1912.	2.6	58
29	Properties of Neon, Magnesium, and Silicon Primary Cosmic Rays Results from the Alpha Magnetic Spectrometer. Physical Review Letters, 2020, 124, 211102.	7.8	58
30	The ATIC long duration balloon project. Advances in Space Research, 2004, 33, 1763-1770.	2.6	56
31	Cosmic-ray energetics and mass (CREAM) balloon project. Advances in Space Research, 2004, 33, 1777-1785.	2.6	55
32	RELATIVE COMPOSITION AND ENERGY SPECTRA OF LIGHT NUCLEI IN COSMIC RAYS: RESULTS FROM AMS-01. Astrophysical Journal, 2010, 724, 329-340.	4.5	50
33	Cosmic Ray Energetics And Mass for the International Space Station (ISS-CREAM). Advances in Space Research, 2014, 53, 1451-1455.	2.6	47
34	Properties of Cosmic Helium Isotopes Measured by the Alpha Magnetic Spectrometer. Physical Review Letters, 2019, 123, 181102.	7.8	40
35	ISOTOPIC COMPOSITION OF LIGHT NUCLEI IN COSMIC RAYS: RESULTS FROM AMS-01. Astrophysical Journal, 2011, 736, 105.	4.5	37
36	Search for Antihelium with the BESS-Polar Spectrometer. Physical Review Letters, 2012, 108, 131301.	7.8	37

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37	The energy spectra of protons and helium measured with the ATIC experiment. Advances in Space Research, 2006, 37, 1950-1954.	2.6	36
38	The energy spectra of heavy nuclei measured by the ATIC experiment. Advances in Space Research, 2006, 37, 1944-1949.	2.6	33
39	Measurement of the neutron flux in the CPL underground laboratory and simulation studies of neutron shielding for WIMP searches. Astroparticle Physics, 2004, 20, 549-557.	4.3	29
40	Cosmic rays IX. Astronomy and Astrophysics, 2001, 369, 269-277.	5.1	28
41	THE WMAP HAZE FROM THE GALACTIC CENTER REGION DUE TO MASSIVE STAR EXPLOSIONS AND A REDUCED COSMIC RAY SCALE HEIGHT. Astrophysical Journal Letters, 2010, 710, L53-L57.	8.3	26
42	BESS-polar experiment. Advances in Space Research, 2004, 33, 1755-1762.	2.6	25
43	BESS and its future prospect for polar long duration flights. Advances in Space Research, 2002, 30, 1253-1262.	2.6	23
44	CREAM: 70 days of flight from 2 launches in Antarctica. Advances in Space Research, 2008, 42, 1656-1663.	2.6	23
45	Resolving electrons from protons in ATIC. Advances in Space Research, 2008, 42, 431-436.	2.6	21
46	COSMIC-RAY TRANSPORT AND ANISOTROPIES. Astrophysical Journal, 2013, 768, 124.	4.5	21
47	Cosmic-ray energetics and mass (CREAM) balloon experiment. Advances in Space Research, 2002, 30, 1263-1272.	2.6	18
48	Search for antihelium: Progress with BESS. Advances in Space Research, 2008, 42, 450-454.	2.6	18
49	Cosmic ray 1H and 2H spectra from BESS 98. Advances in Space Research, 2005, 35, 151-155.	2.6	17
50	Advanced thin ionization calorimeter to measure ultrahigh energy cosmic rays. Advances in Space Research, 1997, 19, 711-718.	2.6	13
51	BESS-Polar experiment: Progress and future prospects. Advances in Space Research, 2008, 42, 1664-1669.	2.6	11
52	The results from BESS-Polar experiment. Advances in Space Research, 2017, 60, 806-814.	2.6	11
53	Energy dependence of Ti/Fe ratio in the Galactic cosmic rays measured by the ATIC-2 experiment. Astronomy Letters, 2009, 35, 338-342.	1.0	10
54	Cosmic ray 2H/1H ratio measured from BESS in 2000 during solar maximum. Advances in Space Research, 2013, 51, 234-237.	2.6	10

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55	Spectra of H and He measured in a series of annual flights. Advances in Space Research, 2000, 26, 1831-1834.	2.6	8
56	Search for cosmic-ray antiproton origins and for cosmological antimatter with BESS. Advances in Space Research, 2013, 51, 227-233.	2.6	8
57	Precise measurements of cosmic-ray hydrogen and helium spectra with BESS. Advances in Space Research, 2001, 27, 761-766.	2.6	7
58	Precise measurements of the cosmic ray antiproton spectrum with BESS including the effects of solar modulation. Advances in Space Research, 2005, 35, 135-141.	2.6	7
59	Performance of a Dual Layer Silicon Charge Detector During CREAM Balloon Flight. IEEE Transactions on Nuclear Science, 2007, 54, 1743-1747.	2.0	7
60	Search for primordial antiparticles with BESS. Advances in Space Research, 2008, 42, 442-449.	2.6	7
61	Temperature effects in the ATIC BGO calorimeter. Advances in Space Research, 2008, 42, 437-441.	2.6	7
62	Construction and testing of a Top Counting Detector and a Bottom Counting Detector for the Cosmic Ray Energetics And Mass experiment on the International Space Station. Journal of Instrumentation, 2015, 10, P07018-P07018.	1.2	7
63	On-orbit performance of the top and bottom counting detectors for the ISS-CREAM experiment on the international space station. Advances in Space Research, 2019, 64, 2564-2569.	2.6	7
64	Preliminary results from the second flight of CREAM. Advances in Space Research, 2008, 41, 2002-2009.	2.6	6
65	Time variations of cosmic-ray helium isotopes with BESS-Polar I. Advances in Space Research, 2014, 53, 1426-1431.	2.6	6
66	The Cosmic Ray Energetics and Mass (CREAM) experiment timing charge detector. , 2003, , .		5
67	First measurements of cosmic-ray nuclei at high energy with CREAM. Advances in Space Research, 2008, 42, 403-408.	2.6	5
68	Antiproton spectrum in the galactic wind model. Advances in Space Research, 2001, 27, 705-710.	2.6	4
69	Measuring the deposited energy by the scintillation calorimeter in the ATIC experiment. Instruments and Experimental Techniques, 2008, 51, 665-681.	0.5	4
70	Performance of the CREAM-III Calorimeter. IEEE Transactions on Nuclear Science, 2009, 56, 1396-1399.	2.0	4
71	The Origin of the Most Energetic Galactic Cosmic Rays: Supernova Explosions into Massive Star Plasma Winds. Galaxies, 2019, 7, 48.	3.0	4
72	Convolutional neural network-based reconstruction for positronium annihilation localization. Scientific Reports, 2022, 12, .	3.3	4

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73	Improving cosmic ray composition determination through better tracking. Advances in Space Research, 2000, 26, 1835-1838.	2.6	3
74	Search for fractionally charged particles in cosmic rays with the BESS spectrometer. Advances in Space Research, 2008, 41, 2050-2055.	2.6	3
75	The ISS-CREAM Silicon Charge Detector for identification of the charge of cosmic rays up to ZÂ=Â26: Design, fabrication and ground-test performance. Astroparticle Physics, 2019, 112, 8-15.	4.3	3
76	Cosmic-ray antiprotons in the galaxy. Advances in Space Research, 2005, 35, 147-150.	2.6	2
77	Performance of the ISS-CREAM calorimeter in a calibration beam test. Astroparticle Physics, 2021, 130, 102583.	4.3	2
78	Precision measurement of antiproton spectrum with BESS. Advances in Space Research, 2000, 26, 1847-1850.	2.6	1
79	Precise measurements of cosmic-ray antiproton spectrum in a positive phase of the solar cycle. Advances in Space Research, 2001, 27, 711-716.	2.6	1
80	First results from ATIC beam-test at CERN. Advances in Space Research, 2001, 27, 819-824.	2.6	1
81	Albedo in the ATIC experiment: Measurements and simulations. Physics of Atomic Nuclei, 2005, 68, 1176-1182.	0.4	1
82	Enhancing the ATIC charge resolution. Advances in Space Research, 2008, 42, 424-430.	2.6	1
83	Fine structure in the cosmic ray electron spectrum measured by the ATIC-2 and ATIC-4 experiments. Bulletin of the Russian Academy of Sciences: Physics, 2011, 75, 319.	0.6	1
84	Spectrum of galactic cosmic rays accelerated in supernova remnants. Bulletin of the Russian Academy of Sciences: Physics, 2011, 75, 299-301.	0.6	1
85	PREFACE: Cosmic ray origins: The Viktor Hess centennial anniversary. Advances in Space Research, 2014, 53, 1377-1378.	2.6	1
86	Cosmic ray catcher will probe supernovae from new perch. Science, 2017, 357, 437-438.	12.6	1
87	A simulation study of Top and Bottom Counting Detectors in ISS-CREAM experiment for cosmic ray electron physics. Advances in Space Research, 2018, 62, 2939-2944.	2.6	1
88	CREAM-Pushing the high energy frontier of directly measured cosmic rays. European Physical Journal D, 2006, 56, A301-A312.	0.4	0
89	A detailed FLUKA-2005 Monte-Carlo simulation for the ATIC detector. Advances in Space Research, 2008, 42, 417-423.	2.6	0
90	Spectra of cosmic rays at TeV energies. , 2013, , .		0

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91	Catching cosmic rays where they live. Science, 2015, 349, 572-573.	12.6	0
92	Advances in direct measurements of cosmic rays. Journal of the Korean Physical Society, 2021, 78, 923-931.	0.7	0