

Eun-Suk Seo

List of Publications by Year in descending order

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92
papers

8,125
citations

101543

36
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49909

87
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94
all docs

94
docs citations

94
times ranked

7309
citing authors

#	ARTICLE	IF	CITATIONS
1	Convolutional neural network-based reconstruction for positronium annihilation localization. Scientific Reports, 2022, 12, .	3.3	4
2	The Alpha Magnetic Spectrometer (AMS) on the international space station: Part II "Results from the first seven years. Physics Reports, 2021, 894, 1-116.	25.6	160
3	Advances in direct measurements of cosmic rays. Journal of the Korean Physical Society, 2021, 78, 923-931.	0.7	0
4	Performance of the ISS-CREAM calorimeter in a calibration beam test. Astroparticle Physics, 2021, 130, 102583.	4.3	2
5	Properties of Neon, Magnesium, and Silicon Primary Cosmic Rays Results from the Alpha Magnetic Spectrometer. Physical Review Letters, 2020, 124, 211102.	7.8	58
6	Properties of Cosmic Helium Isotopes Measured by the Alpha Magnetic Spectrometer. Physical Review Letters, 2019, 123, 181102.	7.8	40
7	The Origin of the Most Energetic Galactic Cosmic Rays: Supernova Explosions into Massive Star Plasma Winds. Galaxies, 2019, 7, 48.	3.0	4
8	The ISS-CREAM Silicon Charge Detector for identification of the charge of cosmic rays up to $Z=26$: Design, fabrication and ground-test performance. Astroparticle Physics, 2019, 112, 8-15.	4.3	3
9	Towards Understanding the Origin of Cosmic-Ray Electrons. Physical Review Letters, 2019, 122, 101101.	7.8	109
10	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
11	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
12	The results from BESS-Polar experiment. Advances in Space Research, 2017, 60, 806-814.	2.6	11
13	Proton and Helium Spectra from the CREAM-III Flight. Astrophysical Journal, 2017, 839, 5.	4.5	169
14	Cosmic ray catcher will probe supernovae from new perch. Science, 2017, 357, 437-438.	12.6	1
15	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
16	Precision Measurement of the Boron to Carbon Flux Ratio in Cosmic Rays from 1.9 GV to 2.6 TV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2016, 117, 231102.	7.8	236
17	Precision Measurement of the Helium Flux in Primary Cosmic Rays of Rigidities 1.9 GV to 3 TV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2015, 115, 211101.	7.8	369
18	Catching cosmic rays where they live. Science, 2015, 349, 572-573.	12.6	0

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19	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. <i>Physical Review Letters</i> , 2015, 114, 171103.	7.8	655
20	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. <i>Journal of Instrumentation</i> , 2015, 10, P07018-P07018.	1.2	7
21	Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2014, 113, 221102.	7.8	238
22	Electron and Positron Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the International Space Station. <i>Physical Review Letters</i> , 2014, 113, 121102.	7.8	397
23	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. <i>Physical Review Letters</i> , 2014, 113, 121101.	7.8	428
24	Cosmic Ray Energetics And Mass for the International Space Station (ISS-CREAM). <i>Advances in Space Research</i> , 2014, 53, 1451-1455.	2.6	47
25	PREFACE: Cosmic ray origins: The Viktor Hess centennial anniversary. <i>Advances in Space Research</i> , 2014, 53, 1377-1378.	2.6	1
26	Time variations of cosmic-ray helium isotopes with BESS-Polar I. <i>Advances in Space Research</i> , 2014, 53, 1426-1431.	2.6	6
27	Search for cosmic-ray antiproton origins and for cosmological antimatter with BESS. <i>Advances in Space Research</i> , 2013, 51, 227-233.	2.6	8
28	Cosmic ray 2H/1H ratio measured from BESS in 2000 during solar maximum. <i>Advances in Space Research</i> , 2013, 51, 234-237.	2.6	10
29	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. <i>Physical Review Letters</i> , 2013, 110, 141102.	7.8	852
30	COSMIC-RAY TRANSPORT AND ANISOTROPIES. <i>Astrophysical Journal</i> , 2013, 768, 124.	4.5	21
31	SPECTRA OF COSMIC-RAY PROTONS AND HELIUM PRODUCED IN SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2013, 763, 47.	4.5	84
32	Spectra of cosmic rays at TeV energies. , 2013, , .		0
33	Search for Antihelium with the BESS-Polar Spectrometer. <i>Physical Review Letters</i> , 2012, 108, 131301.	7.8	37
34	COSMIC-RAY PROTON AND HELIUM SPECTRA FROM THE FIRST CREAM FLIGHT. <i>Astrophysical Journal</i> , 2011, 728, 122.	4.5	290
35	Fine structure in the cosmic ray electron spectrum measured by the ATIC-2 and ATIC-4 experiments. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011, 75, 319.	0.6	1
36	Spectrum of galactic cosmic rays accelerated in supernova remnants. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2011, 75, 299-301.	0.6	1

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37	ISOTOPIC COMPOSITION OF LIGHT NUCLEI IN COSMIC RAYS: RESULTS FROM AMS-01. <i>Astrophysical Journal</i> , 2011, 736, 105.	4.5	37
38	SPECTRUM OF GALACTIC COSMIC RAYS ACCELERATED IN SUPERNOVA REMNANTS. <i>Astrophysical Journal</i> , 2010, 718, 31-36.	4.5	170
39	THE ORIGIN OF COSMIC RAYS: EXPLOSIONS OF MASSIVE STARS WITH MAGNETIC WINDS AND THEIR SUPERNOVA MECHANISM. <i>Astrophysical Journal</i> , 2010, 725, 184-187.	4.5	71
40	THE WMAP HAZE FROM THE GALACTIC CENTER REGION DUE TO MASSIVE STAR EXPLOSIONS AND A REDUCED COSMIC RAY SCALE HEIGHT. <i>Astrophysical Journal Letters</i> , 2010, 710, L53-L57.	8.3	26
41	RELATIVE COMPOSITION AND ENERGY SPECTRA OF LIGHT NUCLEI IN COSMIC RAYS: RESULTS FROM AMS-01. <i>Astrophysical Journal</i> , 2010, 724, 329-340.	4.5	50
42	DISCREPANT HARDENING OBSERVED IN COSMIC-RAY ELEMENTAL SPECTRA. <i>Astrophysical Journal Letters</i> , 2010, 714, L89-L93.	8.3	314
43	ENERGY SPECTRA OF COSMIC-RAY NUCLEI AT HIGH ENERGIES. <i>Astrophysical Journal</i> , 2009, 707, 593-603.	4.5	160
44	Energy spectra of abundant nuclei of primary cosmic rays from the data of ATIC-2 experiment: Final results. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2009, 73, 564-567.	0.6	273
45	Energy dependence of Ti/Fe ratio in the Galactic cosmic rays measured by the ATIC-2 experiment. <i>Astronomy Letters</i> , 2009, 35, 338-342.	1.0	10
46	Performance of the CREAM-III Calorimeter. <i>IEEE Transactions on Nuclear Science</i> , 2009, 56, 1396-1399.	2.0	4
47	Preliminary results from the second flight of CREAM. <i>Advances in Space Research</i> , 2008, 41, 2002-2009.	2.6	6
48	CREAM: 70 days of flight from 2 launches in Antarctica. <i>Advances in Space Research</i> , 2008, 42, 1656-1663.	2.6	23
49	Measurements of cosmic-ray secondary nuclei at high energies with the first flight of the CREAM balloon-borne experiment. <i>Astroparticle Physics</i> , 2008, 30, 133-141.	4.3	167
50	Search for fractionally charged particles in cosmic rays with the BESS spectrometer. <i>Advances in Space Research</i> , 2008, 41, 2050-2055.	2.6	3
51	A detailed FLUKA-2005 Monte-Carlo simulation for the ATIC detector. <i>Advances in Space Research</i> , 2008, 42, 417-423.	2.6	0
52	First measurements of cosmic-ray nuclei at high energy with CREAM. <i>Advances in Space Research</i> , 2008, 42, 403-408.	2.6	5
53	Search for primordial antiparticles with BESS. <i>Advances in Space Research</i> , 2008, 42, 442-449.	2.6	7
54	Enhancing the ATIC charge resolution. <i>Advances in Space Research</i> , 2008, 42, 424-430.	2.6	1

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55	Temperature effects in the ATIC BGO calorimeter. <i>Advances in Space Research</i> , 2008, 42, 437-441.	2.6	7
56	BESS-Polar experiment: Progress and future prospects. <i>Advances in Space Research</i> , 2008, 42, 1664-1669.	2.6	11
57	Resolving electrons from protons in ATIC. <i>Advances in Space Research</i> , 2008, 42, 431-436.	2.6	21
58	Search for antihelium: Progress with BESS. <i>Advances in Space Research</i> , 2008, 42, 450-454.	2.6	18
59	An excess of cosmic ray electrons at energies of 300-800 GeV. <i>Nature</i> , 2008, 456, 362-365.	27.8	861
60	Measuring the deposited energy by the scintillation calorimeter in the ATIC experiment. <i>Instruments and Experimental Techniques</i> , 2008, 51, 665-681.	0.5	4
61	Performance of a Dual Layer Silicon Charge Detector During CREAM Balloon Flight. <i>IEEE Transactions on Nuclear Science</i> , 2007, 54, 1743-1747.	2.0	7
62	Measurements of 0.2-20 GeV/n cosmic-ray proton and helium spectra from 1997 through 2002 with the BESS spectrometer. <i>Astroparticle Physics</i> , 2007, 28, 154-167.	4.3	168
63	Elemental energy spectra of cosmic rays from the data of the ATIC-2 experiment. <i>Bulletin of the Russian Academy of Sciences: Physics</i> , 2007, 71, 494-497.	0.6	97
64	Effect of random nature of cosmic ray sources - Supernova remnants - on cosmic ray intensity fluctuations, anisotropy, and electron energy spectrum. <i>Advances in Space Research</i> , 2006, 37, 1909-1912.	2.6	58
65	The energy spectra of protons and helium measured with the ATIC experiment. <i>Advances in Space Research</i> , 2006, 37, 1950-1954.	2.6	36
66	CREAM-Pushing the high energy frontier of directly measured cosmic rays. <i>European Physical Journal D</i> , 2006, 56, A301-A312.	0.4	0
67	The energy spectra of heavy nuclei measured by the ATIC experiment. <i>Advances in Space Research</i> , 2006, 37, 1944-1949.	2.6	33
68	Cosmic-ray antiprotons in the galaxy. <i>Advances in Space Research</i> , 2005, 35, 147-150.	2.6	2
69	Cosmic ray 1H and 2H spectra from BESS 98. <i>Advances in Space Research</i> , 2005, 35, 151-155.	2.6	17
70	Albedo in the ATIC experiment: Measurements and simulations. <i>Physics of Atomic Nuclei</i> , 2005, 68, 1176-1182.	0.4	1
71	Precise measurements of the cosmic ray antiproton spectrum with BESS including the effects of solar modulation. <i>Advances in Space Research</i> , 2005, 35, 135-141.	2.6	7
72	BESS-polar experiment. <i>Advances in Space Research</i> , 2004, 33, 1755-1762.	2.6	25

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73	The ATIC long duration balloon project. <i>Advances in Space Research</i> , 2004, 33, 1763-1770.	2.6	56
74	Cosmic-ray energetics and mass (CREAM) balloon project. <i>Advances in Space Research</i> , 2004, 33, 1777-1785.	2.6	55
75	Measurement of the neutron flux in the CPL underground laboratory and simulation studies of neutron shielding for WIMP searches. <i>Astroparticle Physics</i> , 2004, 20, 549-557.	4.3	29
76	Precise measurements of atmospheric muon fluxes with the BESS spectrometer. <i>Astroparticle Physics</i> , 2003, 19, 113-126.	4.3	60
77	The Cosmic Ray Energetics and Mass (CREAM) experiment timing charge detector. , 2003, , .		5
78	Measurement of Cosmic-Ray Hydrogen and Helium and Their Isotopic Composition with the BESS Experiment. <i>Astrophysical Journal</i> , 2002, 564, 244-259.	4.5	90
79	The Alpha Magnetic Spectrometer (AMS) on the International Space Station: Part I " results from the test flight on the space shuttle. <i>Physics Reports</i> , 2002, 366, 331-405.	25.6	366
80	BESS and its future prospect for polar long duration flights. <i>Advances in Space Research</i> , 2002, 30, 1253-1262.	2.6	23
81	Cosmic-ray energetics and mass (CREAM) balloon experiment. <i>Advances in Space Research</i> , 2002, 30, 1263-1272.	2.6	18
82	Cosmic rays IX. <i>Astronomy and Astrophysics</i> , 2001, 369, 269-277.	5.1	28
83	Precise measurements of cosmic-ray hydrogen and helium spectra with BESS. <i>Advances in Space Research</i> , 2001, 27, 761-766.	2.6	7
84	Antiproton spectrum in the galactic wind model. <i>Advances in Space Research</i> , 2001, 27, 705-710.	2.6	4
85	Precise measurements of cosmic-ray antiproton spectrum in a positive phase of the solar cycle. <i>Advances in Space Research</i> , 2001, 27, 711-716.	2.6	1
86	First results from ATIC beam-test at CERN. <i>Advances in Space Research</i> , 2001, 27, 819-824.	2.6	1
87	Successive measurements of cosmic-ray antiproton spectrum in a positive phase of the solar cycle. <i>Astroparticle Physics</i> , 2001, 16, 121-128.	4.3	124
88	Spectra of H and He measured in a series of annual flights. <i>Advances in Space Research</i> , 2000, 26, 1831-1834.	2.6	8
89	Improving cosmic ray composition determination through better tracking. <i>Advances in Space Research</i> , 2000, 26, 1835-1838.	2.6	3
90	Precision measurement of antiproton spectrum with BESS. <i>Advances in Space Research</i> , 2000, 26, 1847-1850.	2.6	1

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91	Cosmic-Ray Antiproton Flux in the Energy Range from 200 to 600 MeV. <i>Astrophysical Journal</i> , 1997, 474, 479-489.	4.5	71
92	Advanced thin ionization calorimeter to measure ultrahigh energy cosmic rays. <i>Advances in Space Research</i> , 1997, 19, 711-718.	2.6	13