Alberto Oliva

List of Publications by Year
in descending order

56 papers	5,629 citations	186209 28 h-index	189801 50 g-index
58 all docs	58 docs citations	58 times ranked	6568 citing authors

#	Article	IF	Citations
1	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.	2.9	852
2	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.	2.9	655
3	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.	2.9	428
4	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.	2.9	397
5	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.	2.9	369
6	Antiproton Flux, Antiproton-to-Proton Flux Ratio, and Properties of Elementary Particle Fluxes in Primary Cosmic Rays Measured with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2016, 117, 091103.	2.9	295
7	Cosmic-ray positron fraction measurement from 1 to 30 GeV with AMS-01. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 646, 145-154.	1.5	269
8	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:msu Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2014, 113, 221102.	2.9	238
9	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.	2.9	236
10	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.	2.9	204
11	Towards Understanding the Origin of Cosmic-Ray Positrons. Physical Review Letters, 2019, 122, 041102.	2.9	174
12	Observation of New Properties of Secondary Cosmic Rays Lithium, Beryllium, and Boron by the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2018, 120, 021101.	2.9	172
13	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.	10.3	160
14	Towards Understanding the Origin of Cosmic-Ray Electrons. Physical Review Letters, 2019, 122, 101101.	2.9	109
15	Observation of Fine Time Structures in the Cosmic Proton and Helium Fluxes with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2018, 121, 051101.	2.9	98
16	Upgrade of the Alpha Magnetic Spectrometer (AMS-02) for long term operation on the International Space Station (ISS). Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 654, 639-648.	0.7	95
17	Bayesian analysis of spatial-dependent cosmic-ray propagation: Astrophysical background of antiprotons and positrons. Physical Review D, 2016, 94, .	1.6	76
18	The internal alignment and position resolution of the AMS-02 silicon tracker determined with cosmic-ray muons. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 613, 207-217.	0.7	73

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19	Precision Measurement of Cosmic-Ray Nitrogen and its Primary and Secondary Components with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2018, 121, 051103.	2.9	68
20	Observation of Complex Time Structures in the Cosmic-Ray Electron and Positron Fluxes with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2018, 121, 051102.	2.9	62
21	Properties of Neon, Magnesium, and Silicon Primary Cosmic Rays Results from the Alpha Magnetic Spectrometer. Physical Review Letters, 2020, 124, 211102.	2.9	58
22	RELATIVE COMPOSITION AND ENERGY SPECTRA OF LIGHT NUCLEI IN COSMIC RAYS: RESULTS FROM AMS-01. Astrophysical Journal, 2010, 724, 329-340.	1.6	50
23	Cosmic-ray antinuclei as messengers of new physics: status and outlook for the new decade. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 035-035.	1.9	48
24	Calibration and performance of the AMS-02 time of flight detector in space. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 743, 22-29.	0.7	46
25	Properties of Iron Primary Cosmic Rays: Results from the Alpha Magnetic Spectrometer. Physical Review Letters, 2021, 126, 041104.	2.9	46
26	The alpha magnetic spectrometer silicon tracker: Performance results with protons and helium nuclei. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 593, 376-398.	0.7	45
27	Properties of Cosmic Helium Isotopes Measured by the Alpha Magnetic Spectrometer. Physical Review Letters, 2019, 123, 181102.	2.9	40
28	ISOTOPIC COMPOSITION OF LIGHT NUCLEI IN COSMIC RAYS: RESULTS FROM AMS-01. Astrophysical Journal, 2011, 736, 105.	1.6	37
29	The spatial resolution of the silicon tracker of the Alpha Magnetic Spectrometer. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 869, 29-37.	0.7	28
30	Periodicities in the Daily Proton Fluxes from 2011 to 2019 Measured by the Alpha Magnetic Spectrometer on the International Space Station from 1 to 100ÂGV. Physical Review Letters, 2021, 127, 271102.	2.9	27
31	Properties of Heavy Secondary Fluorine Cosmic Rays: Results from the Alpha Magnetic Spectrometer. Physical Review Letters, 2021, 126, 081102.	2.9	19
32	Properties of a New Group of Cosmic Nuclei: Results from the Alpha Magnetic Spectrometer on Sodium, Aluminum, and Nitrogen. Physical Review Letters, 2021, 127, 021101.	2.9	18
33	Nuclei charge measurement by the Alpha Magnetic Spectrometer silicon tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 972, 164169.	0.7	17
34	Production and Acceleration of Antinuclei in Supernova Shockwaves. Astrophysical Journal Letters, 2017, 844, L26.	3.0	16
35	Properties of Daily Helium Fluxes. Physical Review Letters, 2022, 128, .	2.9	15
36	Measurements of nuclear interaction cross sections with the Alpha Magnetic Spectrometer on the International Space Station. Nuclear Physics A, 2020, 996, 121712.	0.6	14

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37	The August 2018 Geomagnetic Storm Observed by the High-Energy Particle Detector on Board the CSES-01 Satellite. Applied Sciences (Switzerland), 2021, 11, 5680.	1.3	13
38	The AMS-02 RICH detector: Status and physics results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 952, 161797.	0.7	10
39	New results on protons inside the South Atlantic Anomaly, at energies between 40 and 250ÂMeV in the period 2018â€“2020, from the CSES-01 satellite mission. Physical Review D, 2022, 105, .	1.6	7
40	The time of flight detector of the AMS-02 experiment on the international space station. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 718, 478-480.	0.7	6
41	The RICH detector of AMS-02: 5 years of operation in space. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 876, 5-8.	0.7	6
42	Design of an Antimatter Large Acceptance Detector In Orbit (ALADInO). Instruments, 2022, 6, 19.	0.8	6
43	The TOF counters of the AMS-02 experiment: space qualification tests and beam test results. Nuclear Physics, Section B, Proceedings Supplements, 2006, 150, 276-280.	0.5	4
44	Cosmic-ray astrophysics with the AMS-02 experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 588, 255-258.	0.7	4
45	The AMS-02 silicon tracker: Recent results and current status. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 471-472.	0.7	4
46	Mass resolution for helium isotopes in AMS-02. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 868, 139-141.	0.7	4
47	Trapped Proton Fluxes Estimation Inside the South Atlantic Anomaly Using the NASA AE9/AP9/SPM Radiation Models along the China Seismo-Electromagnetic Satellite Orbit. Applied Sciences (Switzerland), 2021, 11, 3465.	1.3	4
48	Advantages and Requirements in Time Resolving Tracking for Astroparticle Experiments in Space. Instruments, 2021, 5, 20.	0.8	3
49	Fresh Insights on Cosmic-ray Propagation from the New AMS Data. Research Notes of the AAS, 2017, 1, 35.	0.3	2
50	Perfomances and space qualification tests of the AMS time of flight. , 0, , .		1
51	A Statistical Analysis of Death Rates in Italy for the Years 2015â€“2020 and a Comparison with the Casualties Reported from the COVID-19 Pandemic. Infectious Disease Reports, 2021, 13, 285-301.	1.5	1
52	Observation of Properties of Primary and Secondary Cosmic Rays by the Alpha Magnetic Spectrometer on the International Space Station. EPJ Web of Conferences, 2019, 208, 13002.	0.1	0
53	Performance, Operational Aspects and Impact on Physics Results of the AMS Tracker. , 2014, , .		0
54	Precision Measurement of Nuclei in Cosmic Rays with the Alpha Magnetic Spectrometer on the International Space Station. , 2017, , .		0

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55	Deep learning based event reconstruction for the Limadou High-Energy Particle Detector. Physical Review D, 2022, 105, .	1.6	0
56	New Properties of Secondary Cosmic Rays observed by the Alpha Magnetic Spectrometer on the International Space Station. Journal of Physics: Conference Series, 2021, 2156, 012094.	0.3	0