Paolo Zuccon

List of Publications by Year in descending order

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68 papers

6,796 citations

36 h-index 66 g-index

73 all docs 73 docs citations

73 times ranked 7520 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 $0.5\hat{a}$ 6.350 GeV. Physical Review Letters, 2013, 110, 141102.	7.8	852
2	Precision Measurement of the Proton Flux in Primary Cosmic Rays from Rigidity $1\text{\^{A}}\text{GV}$ to 1.8TV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2015, 114, 171103.	7.8	655
3	High Statistics Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5–500ÂGeV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2014, 113, 121101.	7.8	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.	7.8	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.	7.8	369
6	The Alpha Magnetic Spectrometer (AMS) on the International Space Station: Part I $\hat{a} \in \text{``results from the test flight on the space shuttle. Physics Reports, 2002, 366, 331-405.}$	25.6	366
7	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.	7.8	295
8	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.	4.1	269
9	display="inline"> <mml:mo stretchy="false">(</mml:mo> <mml:msup><mml:mi>e</mml:mi><mml:mo>+</mml:mo></mml:msup> <mml:mo>- Alpha Magnetic Spectrometer on the International Space Station, Physical Review Letters, 2014, 113.</mml:mo>	+ <u>4/</u> mml:ma	ozzmml:msi
10	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
11	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
12	A study of quasi-elastic muon neutrino and antineutrino scattering in the NOMAD experiment. European Physical Journal C, 2009, 63, 355-381.	3.9	193
13	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.	7.8	172
14	Search for $1\frac{1}{2}1\frac{1}{4}21\frac{1}{4}2$ oscillations in the NOMAD experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 570, 19-31.	4.1	163
15	Helium in near Earth orbit. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 494, 193-202.	4.1	145
16	High-Efficiency Volume Reflection of an Ultrarelativistic Proton Beam with a Bent Silicon Crystal. Physical Review Letters, 2007, 98, 154801.	7.8	123
17	Final NOMAD results on $1\frac{1}{2}1\frac{1}{4}$ at $1\frac{1}{2}$, and $1\frac{1}{2}$ eat $1\frac{1}{2}$, oscillations including a new search for $1\frac{1}{2}$, appearance usi decays. Nuclear Physics B, 2001, 611, 3-39.	ng hadron	ic Ï, 117
18	Search for heavy neutrinos mixing with tau neutrinos. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 506, 27-38.	4.1	102

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19	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.	7.8	98
20	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.	1.6	95
21	Measurement of the polarization in charged current interactions in the NOMAD experiment. Nuclear Physics B, 2000, 588, 3-36. A precise measurement of the muon neutrino–nucleon inclusive charged current cross section off an	2.5	75
22	isoscalar target in the energy range <mml:math altimg="si1.gif" overflow="scroll" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>2.5</mml:mn><mml:mo><</mml:mo><mml:msub><mml:mi>E</mml:mi><mml:ncev< mml:mtext=""></mml:ncev<></mml:msub></mml:math> by NOMAD. Physics Letters, Section B: Nuclear, Elementary Particle and	ni>¶1/2 <td>nml:Mi></td>	nml:Mi>
23	High-Energy Physics, 2008, 660, 19-25. 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.	1.6	73
24	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.	7.8	68
25	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.	7.8	62
26	A precision measurement of charm dimuon production in neutrino interactions from the NOMAD experiment. Nuclear Physics B, 2013, 876, 339-375.	2.5	59
27	Volume Reflection Dependence of <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>400</mml:mn><mml:mtext>â€%</mml:mtext><mml:mtext>â€%</mml:mtext>â€%â€%â€%</mml:math>	ml മങ >G	eV< ฐน ml:mi> <r< td=""></r<>
28	Deflection of <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mn>400</mml:mn><mml:mtext> </mml:mtext><mml:mtext><mml:mtext>af€‰</mml:mtext>af€‰</mml:mtext>af€‰af€‰af€‰affine special beam with bent silicon crystals at the CERN Super Proton Synchrotron. Physical Review Special Topics: Accelerators and Beams, 2008, 11, .</mml:math>	ml:mi>G	eV <r< td=""></r<>
29	Experimental study of the radiation emitted by <mml:math display="inline" xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mn>180</mml:mn><mml:mtext>and positrons volume-reflected in a bent crystal. Physical Review A, 2009, 79, .</mml:mtext></mml:mrow></mml:math>	m <mark>2.5</mark> mmil:mc	>â^•
30	RELATIVE COMPOSITION AND ENERGY SPECTRA OF LIGHT NUCLEI IN COSMIC RAYS: RESULTS FROM AMS-01. Astrophysical Journal, 2010, 724, 329-340.	4.5	50
31	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.	1.6	45
32	High-Efficiency Deflection of High-Energy Protons through Axial Channeling in a Bent Crystal. Physical Review Letters, 2008, 101, 164801.	7.8	45
33	Observation of nuclear dechanneling for high-energy protons in crystals. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 680, 129-132.	4.1	45
34	Neutrino production of opposite sign dimuons in the NOMAD experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 486, 35-48.	4.1	44
35	Observation of Multiple Volume Reflection of Ultrarelativistic Protons by a Sequence of Several Bent Silicon Crystals. Physical Review Letters, 2009, 102, 084801.	7.8	37
36	ISOTOPIC COMPOSITION OF LIGHT NUCLEI IN COSMIC RAYS: RESULTS FROM AMS-01. Astrophysical Journal, 2011, 736, 105.	4.5	37

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37	Measurement of the polarization in $\hat{l}^{1/2}\hat{l}^{1/4}$ charged current interactions in the NOMAD experiment. Nuclear Physics B, 2001, 605, 3-14.	2.5	36
38	A more sensitive search for $\hat{l}/2\hat{l}/4\hat{a}\dagger^2\hat{l}/2\hat{l}$, oscillations in NOMAD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 453, 169-186.	4.1	33
39	A measurement of coherent neutral pion production in neutrino neutral current interactions in the NOMAD experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 682, 177-184.	4.1	29
40	A search for single photon events in neutrino interactions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 706, 268-275.	4.1	26
41	Double volume reflection of a proton beam by a sequence of two bent crystals. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 658, 109-111.	4.1	25
42	Charge determination of nuclei with the AMS-02 silicon tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 540, 121-130.	1.6	23
43	Apparatus to study crystal channeling and volume reflection phenomena at the SPS H8 beamline. Review of Scientific Instruments, 2008, 79, 023303.	1.3	23
44	Galactic Cosmic-Ray Hydrogen Spectra in the 40–250 MeV Range Measured by the High-energy Particle Detector (HEPD) on board the CSES-01 Satellite between 2018 and 2020. Astrophysical Journal, 2020, 901, 8.	4.5	19
45	Updated results from the νÏ,, appearance search in NOMAD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 483, 387-404.	4.1	18
46	Inclusive production of $\ddot{i}0(770)$, f0(980) and f2(1270) mesons in $\hat{i}\frac{1}{2}\hat{i}\frac{1}{4}$ charged current interactions. Nuclear Physics B, 2001, 601, 3-23.	2.5	16
47	A study of backward going p and Ï€â^' in interactions with the NOMAD detector. Nuclear Physics B, 2001, 609, 255-279.	2.5	15
48	Leptons with energy >200 MeV trapped near the South Atlantic Anomaly. Journal of Geophysical Research, 2003, 108, .	3.3	15
49	Atmospheric production of energetic protons, electrons and positrons observed in near Earth orbit. Astroparticle Physics, 2003, 20, 221-234.	4.3	13
50	The August 2018 Geomagnetic Storm Observed by the High-Energy Particle Detector on Board the CSES-01 Satellite. Applied Sciences (Switzerland), 2021, 11, 5680.	2.5	13
51	Leptons withE> 200 MeV trapped in the Earth's radiation belts. Journal of Geophysical Research, 2002, 107, SMP 2-1.	3.3	12
52	The AMS silicon tracker: Construction and performance. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 596, 74-78.	1.6	11
53	Control and data acquisition software of the highâ∈energy particle detector on board the China Seismoâ∈Electromagnetic Satellite space mission. Software - Practice and Experience, 2021, 51, 1459-1480.	3.6	10
54	Protons with kinetic energy E >70 MeV trapped in the Earth's radiation belts. Journal of Geophysical Research, 2004, 109, .	3.3	9

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55	The electronics of the High-Energy Particle Detector on board the CSES-01 satellite. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2021, 1013, 165639.	1.6	9
56	A study of strange particles produced in neutrino neutral current interactions in the NOMAD experiment. Nuclear Physics B, 2004, 700, 51-68.	2.5	8
57	Production properties of \$K^star(892)^pm\$ vector mesons and their spin alignment as measured in the NOMAD experiment. European Physical Journal C, 2006, 46, 69-79.	3.9	8
58	Search for the exotic $\hat{\Gamma}$ + resonance in the NOMAD experiment. European Physical Journal C, 2007, 49, 499-510.	3.9	8
59	New results on protons inside the South Atlantic Anomaly, at energies between 40 and 250ÂMeV in the period 2018–2020, from the CSES-01 satellite mission. Physical Review D, 2022, 105, .	4.7	7
60	Design of an Antimatter Large Acceptance Detector In Orbit (ALADInO). Instruments, 2022, 6, 19.	1.8	6
61	New track finding based on cellar automaton for AMS-02 detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 869, 135-140.	1.6	5
62	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.	2.5	4
63	Bose–Einstein correlations in charged current muon–neutrino interactions in the NOMAD experiment at CERN. Nuclear Physics B, 2004, 686, 3-28.	2.5	3
64	A study of cosmic ray secondaries induced by the Mir space station using AMS-01. Nuclear Instruments & Methods in Physics Research B, 2005, 234, 321-332.	1.4	2
65	AMI: AMS Monitoring Interface. Journal of Physics: Conference Series, 2011, 331, 082008.	0.4	1
66	Absorbed dose rate estimation for protons, leptons and helium observed with AMS01 experiment in low earth orbit during STS-91 mission. Radiation Protection Dosimetry, 2005, 116, 216-219.	0.8	0
67	<title>Experimental apparatus to study crystal channeling in an external SPS beamline</title> ., 2007,,		0
68	Deep learning based event reconstruction for the Limadou High-Energy Particle Detector. Physical Review D, 2022, 105, .	4.7	O