

# Paolo Zuccon

## List of Publications by Year in descending order

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68  
papers

6,796  
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101543

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102487

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73  
all docs

73  
docs citations

73  
times ranked

7520  
citing authors

#	ARTICLE	IF	CITATIONS
1	Deep learning based event reconstruction for the Limadou High-Energy Particle Detector. Physical Review D, 2022, 105, .	4.7	0
2	New results on protons inside the South Atlantic Anomaly, at energies between 40 and 250 MeV in the period 2018–2020, from the CSES-01 satellite mission. Physical Review D, 2022, 105, .	4.7	7
3	Design of an Antimatter Large Acceptance Detector In Orbit (ALADInO). Instruments, 2022, 6, 19.	1.8	6
4	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
5	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
6	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
7	Control and data acquisition software of the high-energy particle detector on board the China Seismo-Electromagnetic Satellite space mission. Software - Practice and Experience, 2021, 51, 1459-1480.	3.6	10
8	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
9	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
10	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
11	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
12	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
13	New track finding based on cellular 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
14	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
15	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
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	Precision Measurement of the Proton Flux in Primary Cosmic Rays from Rigidity 1 GV to 1.8 TV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2015, 114, 171103.	7.8	655

#	ARTICLE	IF	CITATIONS
19	Precision Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5–500 GeV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2014, 113, 221102.	7.8	238
20	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
21	High Statistics Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5–500 GeV with the Alpha Magnetic Spectrometer on the International Space Station. Physical Review Letters, 2014, 113, 121101.	7.8	428
22	A precision measurement of charm dimuon production in neutrino interactions from the NOMAD experiment. Nuclear Physics B, 2013, 876, 339-375.	2.5	59
23	First Result from the Alpha Magnetic Spectrometer on the International Space Station: Precision Measurement of the Positron Fraction in Primary Cosmic Rays of 0.5–350 GeV. Physical Review Letters, 2013, 110, 141102.	7.8	852
24	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
25	AMI: AMS Monitoring Interface. Journal of Physics: Conference Series, 2011, 331, 082008.	0.4	1
26	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
27	ISOTOPIC COMPOSITION OF LIGHT NUCLEI IN COSMIC RAYS: RESULTS FROM AMS-01. Astrophysical Journal, 2011, 736, 105.	4.5	37
28	RELATIVE COMPOSITION AND ENERGY SPECTRA OF LIGHT NUCLEI IN COSMIC RAYS: RESULTS FROM AMS-01. Astrophysical Journal, 2010, 724, 329-340.	4.5	50
29	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
30	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
31	Experimental study of the radiation emitted by 180 GeV and positrons volume-reflected in a bent crystal. Physical Review A, 2009, 79, 053801.	2.5	50
32	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
33	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
34	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
35	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
36	A precise measurement of the muon neutrino nucleon inclusive charged current cross section off an isoscalar target in the energy range 2.5 GeV <math>E < 100 GeV</math> by NOMAD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 660, 19-25.	4.1	73

#	ARTICLE	IF	CITATIONS
37	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
38	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
39	High-Efficiency Deflection of High-Energy Protons through Axial Channeling in a Bent Crystal. Physical Review Letters, 2008, 101, 164801.	7.8	45
40	Deflection of $400 \text{ GeV}$ beam with bent silicon crystals at the CERN Super Proton Synchrotron. Physical Review Special Topics: Accelerators and Beams, 2008, 11, .	1.8	50
41	Apparatus to study crystal channeling and volume reflection phenomena at the SPS H8 beamline. Review of Scientific Instruments, 2008, 79, 023303.	1.3	23
42	Volume Reflection Dependence of $400 \text{ GeV}$ on the Bent Crystal Curvature. Physical Review Letters, 2008, 101, 234801.	1.3	57
43	High-Efficiency Volume Reflection of an Ultrarelativistic Proton Beam with a Bent Silicon Crystal. Physical Review Letters, 2007, 98, 154801.	7.8	123
44	<title>Experimental apparatus to study crystal channeling in an external SPS beamline</title>. , 2007, , .		0
45	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
46	Search for the exotic $\hat{\Gamma}^+$ resonance in the NOMAD experiment. European Physical Journal C, 2007, 49, 499-510.	3.9	8
47	Production properties of $K^*(892)^+$ vector mesons and their spin alignment as measured in the NOMAD experiment. European Physical Journal C, 2006, 46, 69-79.	3.9	8
48	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
49	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
50	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
51	Protons with kinetic energy $E > 70 \text{ MeV}$ trapped in the Earth's radiation belts. Journal of Geophysical Research, 2004, 109, .	3.3	9
52	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
53	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
54	Search for $\hat{\nu}_\mu \leftrightarrow \hat{\nu}_e$ oscillations in the NOMAD experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2003, 570, 19-31.	4.1	163

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55	Atmospheric production of energetic protons, electrons and positrons observed in near Earth orbit. <i>Astroparticle Physics</i> , 2003, 20, 221-234.	4.3	13
56	Leptons with energy >200 MeV trapped near the South Atlantic Anomaly. <i>Journal of Geophysical Research</i> , 2003, 108, .	3.3	15
57	Leptons with $E > 200$ MeV trapped in the Earth's radiation belts. <i>Journal of Geophysical Research</i> , 2002, 107, SMP 2-1.	3.3	12
58	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
59	Inclusive production of $\pi^0(770)$ , $f_0(980)$ and $f_2(1270)$ mesons in $\hat{1}/2\hat{1}/4$ charged current interactions. <i>Nuclear Physics B</i> , 2001, 601, 3-23.	2.5	16
60	Measurement of the polarization in $\hat{1}/2\hat{1}/4$ charged current interactions in the NOMAD experiment. <i>Nuclear Physics B</i> , 2001, 605, 3-14.	2.5	36
61	A study of backward going $p$ and $\bar{p}$ in interactions with the NOMAD detector. <i>Nuclear Physics B</i> , 2001, 609, 255-279.	2.5	15
62	Final NOMAD results on $\hat{1}/2\hat{1}/4\hat{a}\hat{t}\hat{1}/2\hat{1}$ , and $\hat{1}/2e\hat{a}\hat{t}\hat{1}/2\hat{1}$ , oscillations including a new search for $\hat{1}/2\hat{1}$ , appearance using hadronic $\hat{1}$ , decays. <i>Nuclear Physics B</i> , 2001, 611, 3-39.	2.5	117
63	Search for heavy neutrinos mixing with tau neutrinos. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 506, 27-38.	4.1	102
64	Updated results from the $\hat{1}/2\hat{1}$ , appearance search in NOMAD. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 483, 387-404.	4.1	18
65	Neutrino production of opposite sign dimuons in the NOMAD experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 486, 35-48.	4.1	44
66	Helium in near Earth orbit. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000, 494, 193-202.	4.1	145
67	Measurement of the polarization in charged current interactions in the NOMAD experiment. <i>Nuclear Physics B</i> , 2000, 588, 3-36.	2.5	75
68	A more sensitive search for $\hat{1}/2\hat{1}/4\hat{a}\hat{t}\hat{1}/2\hat{1}$ , oscillations in NOMAD. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1999, 453, 169-186.	4.1	33