

Paolo Zuccon

List of Publications by Year in descending order

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68
papers

6,796
citations

101543

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66
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73
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docs citations

73
times ranked

7520
citing authors

#	ARTICLE	IF	CITATIONS
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.	2.5	75
22	A precise measurement of the muon neutrino nucleon inclusive charged current cross section off an isoscalar target in the energy range $2.5 < E < 10$ GeV by NOMAD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 660, 19-25.	4.1	73
23	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 $400 < E < 500$ GeV on the Bent Crystal Curvature. Physical Review Letters, 2008, 101, 234801.	7.8	57
28	Deflection of $400 < E < 500$ GeV beam with bent silicon crystals at the CERN Super Proton Synchrotron. Physical Review Special Topics: Accelerators and Beams, 2008, 11, .	1.8	50
29	Experimental study of the radiation emitted by $180 < E < 500$ GeV and positrons volume-reflected in a bent crystal. Physical Review A, 2009, 79, .	2.5	50
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

#	ARTICLE	IF	CITATIONS
37	Measurement of the polarization in $\hat{1}/2\hat{1}/4$ charged current interactions in the NOMAD experiment. Nuclear Physics B, 2001, 605, 3-14.	2.5	36
38	A more sensitive search for $\hat{1}/2\hat{1}/4\hat{1}/2\hat{1}/2$, 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 40â€“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 $\hat{1}/2\hat{1}/2$, 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 $\hat{1}/0(770)$, $f_0(980)$ and $f_2(1270)$ mesons in $\hat{1}/2\hat{1}/4$ charged current interactions. Nuclear Physics B, 2001, 601, 3-23.	2.5	16
47	A study of backward going p and $\hat{1}/\hat{1}$ 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 with $E > 200$ 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

#	ARTICLE	IF	CITATIONS
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 $K^*(892)^{\pm}$ 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 $\tilde{\Gamma}^+$ 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 250 MeV 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 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
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	0