

# Paola Sala

## List of Publications by Year in descending order

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189  
papers

9,174  
citations

87888

38  
h-index

42399

92  
g-index

191  
all docs

191  
docs citations

191  
times ranked

10719  
citing authors

#	ARTICLE	IF	CITATIONS
1	The ATLAS Experiment at the CERN Large Hadron Collider. Journal of Instrumentation, 2008, 3, S08003-S08003.	1.2	1,752
2	The FLUKA Code: Developments and Challenges for High Energy and Medical Applications. Nuclear Data Sheets, 2014, 120, 211-214.	2.2	1,310
3	The FLUKA code: description and benchmarking. AIP Conference Proceedings, 2007, , .	0.4	747
4	Overview of the FLUKA code. Annals of Nuclear Energy, 2015, 82, 10-18.	1.8	540
5	Design, construction and tests of the ICARUS T600 detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 527, 329-410.	1.6	362
6	The FLUKA Code: An Accurate Simulation Tool for Particle Therapy. Frontiers in Oncology, 2016, 6, 116.	2.8	182
7	Volume I. Introduction to DUNE. Journal of Instrumentation, 2020, 15, T08008-T08008.	1.2	168
8	Charged-particle multiplicities in pp interactions at $\sqrt{s} = 900$ GeV measured with the ATLAS detector at the LHC. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 688, 21-42.		
9	Measurement of inclusive jet and dijet cross sections in proton-proton collisions at 7 TeV centre-of-mass energy with the ATLAS detector. European Physical Journal C, 2011, 71, 1.	3.9	114
10	Search for New Particles in Two-Jet Final States in 7 TeV Proton-Proton Collisions with the ATLAS Detector at the LHC. Physical Review Letters, 2010, 105, 161801.	7.8	113
11	Distributions of secondary particles in proton and carbon-ion therapy: a comparison between GATE/Geant4 and FLUKA Monte Carlo codes. Physics in Medicine and Biology, 2013, 58, 2879-2899.	3.0	110
12	A 3-dimensional calculation of the atmospheric neutrino fluxes. Astroparticle Physics, 2000, 12, 315-333.	4.3	107
13	The FLUKA atmospheric neutrino flux calculation. Astroparticle Physics, 2003, 19, 269-290.	4.3	104
14	Underground operation of the ICARUS T600 LAr-TPC: first results. Journal of Instrumentation, 2011, 6, P07011-P07011.	1.2	95
15	Study of electron recombination in liquid argon with the ICARUS TPC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 523, 275-286.	1.6	87
16	The fluka code for space applications: recent developments. Advances in Space Research, 2004, 34, 1302-1310.	2.6	87
17	Volume IV. The DUNE far detector single-phase technology. Journal of Instrumentation, 2020, 15, T08010-T08010.	1.2	86
18	The atmospheric neutrino flux below 100MeV: The FLUKA results. Astroparticle Physics, 2005, 23, 526-534.	4.3	80

#	ARTICLE	IF	CITATIONS
19	First results on ProtoDUNE-SP liquid argon time projection chamber performance from a beam test at the CERN Neutrino Platform. <i>Journal of Instrumentation</i> , 2020, 15, P12004-P12004.	1.2	69
20	The physics of the FLUKA code: Recent developments. <i>Advances in Space Research</i> , 2007, 40, 1339-1349.	2.6	64
21	Measurement of the $W \rightarrow \tau \nu_\tau$ and $Z \rightarrow \tau^+ \tau^- \nu_\tau \bar{\nu}_\tau$ production cross sections in proton-proton collisions at $\sqrt{s} = 7$ TeV with the ATLAS detector. <i>Journal of High Energy Physics</i> , 2010, 2010, 1.	4.7	64
22	Scintillation efficiency of nuclear recoil in liquid xenon. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2000, 449, 147-157.	1.6	63
23	Search for anomalies in the $\tau \rightarrow e \nu_e$ appearance from a $\tau \rightarrow \mu \nu_\mu$ beam. <i>European Physical Journal C</i> , 2013, 73, 1.	3.9	61
24	A comparison of FLUKA simulations with measurements of fluence and dose in calorimeter structures. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1993, 332, 459-468.	1.6	59
25	Experimental search for the $\mu \rightarrow e \gamma$ anomaly with the ICARUS detector in the CNGS neutrino beam. <i>European Physical Journal C</i> , 2013, 73, 1.	3.9	59
26	Search for quark contact interactions in dijet angular distributions in pp collisions at $\sqrt{s} = 7$ TeV measured with the ATLAS detector. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 694, 327-345.	4.7	57
27	Biologically optimized helium ion plans: calculation approach and its <i>in vitro</i> validation. <i>Physics in Medicine and Biology</i> , 2016, 61, 4283-4299.	3.0	57
28	Analysis of the liquid argon purity in the ICARUS T600 TPC. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 516, 68-79.	1.6	55
29	Measurement of the $\tau \rightarrow \mu \nu_\mu$ decay spectrum with the ICARUS liquid Argon TPC. <i>European Physical Journal C</i> , 2004, 33, 233-241.	3.9	50
30	Cascade particles, nuclear evaporation, and residual nuclei in high energy hadron-nucleus interactions. <i>Zeitschrift für Physik C-Particles and Fields</i> , 1996, 70, 413-426.	1.5	49
31	Noise evaluation of Compton camera imaging for proton therapy. <i>Physics in Medicine and Biology</i> , 2015, 60, 1845-1863.	3.0	49
32	INSIDE in-beam positron emission tomography system for particle range monitoring in hadrontherapy. <i>Journal of Medical Imaging</i> , 2016, 4, 011005.	1.5	49
33	Detector and Physics Performance at a Muon Collider. <i>Journal of Instrumentation</i> , 2020, 15, P05001-P05001.	1.2	49
34	Demonstration of MeV-scale physics in liquid argon time projection chambers using ArgoNeUT. <i>Physical Review D</i> , 2019, 99, .	4.7	45
35	Measurement of the neutrino velocity with the ICARUS detector at the CNGS beam. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 713, 17-22.	4.1	44
36	A phenomenological relative biological effectiveness approach for proton therapy based on an improved description of the mixed radiation field. <i>Physics in Medicine and Biology</i> , 2017, 62, 1378-1395.	3.0	42

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37	Characterization of ETL 9357FLA photomultiplier tubes for cryogenic temperature applications. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 556, 146-157.	1.6	41
38	Dosimetric verification in water of a Monte Carlo treatment planning tool for proton, helium, carbon and oxygen ion beams at the Heidelberg Ion Beam Therapy Center. Physics in Medicine and Biology, 2017, 62, 6579-6594.	3.0	40
39	The production of residual nuclei in peripheral high energy nucleus-nucleus interactions. Zeitschrift für Physik C-Particles and Fields, 1996, 71, 75-86.	1.5	39
40	Proton range monitoring with in-beam PET: Monte Carlo activity predictions and comparison with cyclotron data. Physica Medica, 2014, 30, 559-569.	0.7	39
41	Performance of a liquid argon time projection chamber exposed to the CERN West Area Neutrino Facility neutrino beam. Physical Review D, 2006, 74, .	4.7	38
42	Calibration of BC501A liquid scintillator cells with monochromatic neutron beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 418, 285-299.	1.6	36
43	Hadron energy reconstruction for the ATLAS calorimetry in the framework of the non-parametrical method ATLAS. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 480, 508-523.	1.6	36
44	Measurement of through-going particle momentum by means of multiple scattering with the ICARUS T600 TPC. European Physical Journal C, 2006, 48, 667-676.	3.9	36
45	Experimental observation of an extremely high electron lifetime with the ICARUS-T600 LAr-TPC. Journal of Instrumentation, 2014, 9, P12006-P12006.	1.2	36
46	Proton and helium ion radiotherapy for meningioma tumors: a Monte Carlo-based treatment planning comparison. Radiation Oncology, 2018, 13, 2.	2.7	36
47	The FLUKA code: New developments and application to 1GeV/n iron beams. Advances in Space Research, 2005, 35, 214-222.	2.6	34
48	A new, very massive modular Liquid Argon Imaging Chamber to detect low energy off-axis neutrinos from the CNCS beam (Project MODULAR). Astroparticle Physics, 2008, 29, 174-187.	4.3	32
49	Hadronic models and experimental data for the neutrino beam production. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 449, 609-623.	1.6	31
50	The FLUKA code: an overview. Journal of Physics: Conference Series, 2006, 41, 151-160.	0.4	31
51	Precision measurement of the neutrino velocity with the ICARUS detector in the CNCS beam. Journal of High Energy Physics, 2012, 2012, 1.	4.7	31
52	Carbon ions beam therapy monitoring with the INSIDE in-beam PET. Physics in Medicine and Biology, 2018, 63, 145018.	3.0	31
53	The FIRST experiment at GSI. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 678, 130-138.	1.6	30
54	Detection of scintillation light in coincidence with ionizing tracks in a liquid argon time projection chamber. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 432, 240-248.	1.6	28

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55	Precise 3D Track Reconstruction Algorithm for the ICARUS T600 Liquid Argon Time Projection Chamber Detector. <i>Advances in High Energy Physics</i> , 2013, 2013, 1-16.	1.1	28
56	An in-beam PET system for monitoring ion-beam therapy: test on phantoms using clinical 62 MeV protons. <i>Journal of Instrumentation</i> , 2014, 9, C04005-C04005.	1.2	27
57	Production of secondary particles and nuclei in cosmic rays collisions with the interstellar gas using the FLUKA code. <i>Astroparticle Physics</i> , 2016, 81, 21-38.	4.3	27
58	Helium ions at the heidelberg ion beam therapy center: comparisons between FLUKA Monte Carlo code predictions and dosimetric measurements. <i>Physics in Medicine and Biology</i> , 2017, 62, 6784-6803.	3.0	27
59	Monte Carlo simulation tool for online treatment monitoring in hadrontherapy with in-beam PET: A patient study. <i>Physica Medica</i> , 2018, 51, 71-80.	0.7	27
60	The INSIDE Project: Innovative Solutions for In-Beam Dosimetry in Hadrontherapy. <i>Acta Physica Polonica A</i> , 2015, 127, 1465-1467.	0.5	26
61	Performance of a large scale prototype of the ATLAS accordion electromagnetic calorimeter. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1995, 364, 290-306.	1.6	25
62	Observation of long ionizing tracks with the ICARUS T600 first half-module. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 508, 287-294.	1.6	25
63	Volume III. DUNE far detector technical coordination. <i>Journal of Instrumentation</i> , 2020, 15, T08009-T08009.	1.2	25
64	GCR and SPE organ doses in deep space with different shielding: Monte Carlo simulations based on the FLUKA code coupled to anthropomorphic phantoms. <i>Advances in Space Research</i> , 2006, 37, 1791-1797.	2.6	24
65	Roadmap: helium ion therapy. <i>Physics in Medicine and Biology</i> , 2022, 67, 15TR02.	3.0	24
66	Detection of Cherenkov light emission in liquid argon. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004, 516, 348-363.	1.6	23
67	Applications of FLUKA Monte Carlo code for nuclear and accelerator physics. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 2011, 269, 2850-2856.	1.4	23
68	A novel algorithm for the calculation of physical and biological irradiation quantities in scanned ion beam therapy: the beamlet superposition approach. <i>Physics in Medicine and Biology</i> , 2016, 61, 183-214.	3.0	23
69	Double differential distributions and attenuation in concrete for neutrons produced by 100-400 MeV protons on iron and tissue targets. <i>Nuclear Instruments &amp; Methods in Physics Research B</i> , 1996, 114, 70-80.	1.4	22
70	Photonuclear Reactions in FLUKA: Cross Sections and Interaction Models. <i>AIP Conference Proceedings</i> , 2005, , .	0.4	22
71	Radiation qualification of the front-end electronics for the readout of the ATLAS liquid argon calorimeters. <i>Journal of Instrumentation</i> , 2008, 3, P10005-P10005.	1.2	22
72	A search for the analogue to Cherenkov radiation by high energy neutrinos at superluminal speeds in ICARUS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 711, 270-275.	4.1	22

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73	Online monitoring for proton therapy: A real-time procedure using a planar PET system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 786, 120-126.	1.6	22
74	Results from a new combined test of an electromagnetic liquid argon calorimeter with a hadronic scintillating-tile calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 449, 461-477.	1.6	21
75	Performance of the ICARUS liquid argon prototype. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 498, 292-311.	1.6	21
76	Role of shielding in modulating the effects of solar particle events: Monte Carlo calculation of absorbed dose and DNA complex lesions in different organs. Advances in Space Research, 2004, 34, 1338-1346.	2.6	21
77	A model for the accurate computation of the lateral scattering of protons in water. Physics in Medicine and Biology, 2016, 61, N102-117.	3.0	20
78	Measurement of fragmentation cross sections of C <sup>12</sup> ions on a thin gold target with the FIRST apparatus. Physical Review C, 2016, 93, .	2.9	20
79	Measurement of the high-energy gamma-ray emission from the Moon with the Fermi Large Area Telescope. Physical Review D, 2016, 93, 082001.	4.7	20
80	Comparison of the FLUKA calculations with CAPRICE94 data on muons in atmosphere. Astroparticle Physics, 2002, 17, 477-488.	4.3	19
81	Measurement and simulation of the neutron response and detection efficiency of a Pb-scintillating fiber calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 581, 368-372.	1.6	18
82	Performance of the ATLAS detector using first collision data. Journal of High Energy Physics, 2010, 2010, 1.	4.7	18
83	Hadronic and electromagnetic fragmentation of ultrarelativistic heavy ions at LHC. Physical Review Special Topics: Accelerators and Beams, 2014, 17, .	1.8	18
84	Cosmic-ray interactions with the Sun using the fluka code. Physical Review D, 2020, 101, .	4.7	18
85	ICARUS: an innovative detector for underground physics. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 461, 324-326.	1.6	17
86	Test and characterization of 400 Hamamatsu R5912-MOD photomultiplier tubes for the ICARUS T600 detector. Journal of Instrumentation, 2018, 13, P10030-P10030.	1.2	17
87	The application of FLUKA to dosimetry and radiation therapy. Radiation Protection Dosimetry, 2005, 116, 113-117.	0.8	16
88	Human exposure to space radiation: role of primary and secondary particles. Radiation Protection Dosimetry, 2006, 122, 362-366.	0.8	16
89	Operation and performance of the ICARUS T600 cryogenic plant at Gran Sasso underground Laboratory. Journal of Instrumentation, 2015, 10, P12004-P12004.	1.2	16
90	Muon momentum measurement in ICARUS-T600 LAr-TPC via multiple scattering in few-GeV range. Journal of Instrumentation, 2017, 12, P04010-P04010.	1.2	16

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91	Design and implementation of the new scintillation light detection system of ICARUS T600. Journal of Instrumentation, 2020, 15, T10007-T10007.	1.2	16
92	A low energy optimization of the CERN-NGS neutrino beam for a $\hat{1},13$ driven neutrino oscillation search. Journal of High Energy Physics, 2002, 2002, 004-004.	4.7	15
93	Atmospheric muon simulation using the FLUKA MC Model. Nuclear Physics, Section B, Proceedings Supplements, 2007, 168, 286-288.	0.4	15
94	Nuclear Models in FLUKA: Present Capabilities, Open Problems, and Future Improvements. AIP Conference Proceedings, 2005, . .	0.4	14
95	Performance of upstream interaction region detectors for the FIRST experiment at GSI. Journal of Instrumentation, 2012, 7, P02006-P02006.	1.2	14
96	A new PET prototype for proton therapy: comparison of data and Monte Carlo simulations. Journal of Instrumentation, 2013, 8, C03021-C03021.	1.2	14
97	The trigger system of the ICARUS experiment for the CNGS beam. Journal of Instrumentation, 2014, 9, P08003-P08003.	1.2	14
98	FLUKA simulations for low-energy neutron interactions and experimental validation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 469, 347-353.	1.6	13
99	Atmospheric production of energetic protons, electrons and positrons observed in near Earth orbit. Astroparticle Physics, 2003, 20, 221-234.	4.3	13
100	An integral test of FLUKA nuclear models with 160 MeV proton beams in multi-layer Faraday cups. Physics in Medicine and Biology, 2011, 56, 4001-4011.	3.0	13
101	Performance of the reconstruction algorithms of the FIRST experiment pixel sensors vertex detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 767, 34-40.	1.6	13
102	A measurement of the group velocity of scintillation light in liquid argon. Journal of Instrumentation, 2020, 15, P09009-P09009.	1.2	13
103	Results from a combined test of an electromagnetic liquid argon calorimeter with a hadronic scintillating-tile calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 387, 333-351.	1.6	12
104	Proton driver optimization for new-generation neutrino superbeams to search for sub-leading $\hat{A}\hat{A}\hat{A}$ oscillations ( $\hat{A}13$ angle). New Journal of Physics, 2002, 4, 88-88.	2.9	12
105	In Vivo Validation of the BIANCA Biophysical Model: Benchmarking against Rat Spinal Cord RBE Data. International Journal of Molecular Sciences, 2020, 21, 3973.	4.1	12
106	Nuclear Reactions in Monte Carlo Codes. Radiation Protection Dosimetry, 2002, 99, 29-38.	0.8	11
107	Towards a new Liquid Argon Imaging Chamber for the MODULAR project. Journal of Instrumentation, 2009, 4, P02003-P02003.	1.2	11
108	A Study of Monitoring Performances with the INSIDE System. Acta Physica Polonica A, 2015, 127, 1468-1470.	0.5	11

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109	Monitoring Proton Therapy Through in-Beam PET: An Experimental Phantom Study. IEEE Transactions on Radiation and Plasma Medical Sciences, 2020, 4, 194-201.	3.7	11
110	Measuring Changes in the Atmospheric Neutrino Rate over Gigayear Timescales. Physical Review Letters, 2020, 125, 231802.	7.8	11
111	Particle production, transport, and identification in the regime of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mrow}>\langle \text{mml:mn}>1\langle \text{mml:mn}>\langle \text{mml:mi}>\hat{\alpha}\langle \text{mml:mi}>\langle \text{mml:mn}>7\langle \text{mml:mn}>\langle \text{mml:mtext}>\text{\%}\langle \text{mml:mtext}>$	1.6	11
112	First observation of 140-cm drift ionizing tracks in the ICARUS liquid-argon TPC. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 449, 36-41.	1.6	9
113	CNGS neutrino beam systematics for. Nuclear Physics, Section B, Proceedings Supplements, 2005, 145, 93-97.	0.4	9
114	Modelling human exposure to space radiation with different shielding: the FLUKA code coupled with anthropomorphic phantoms. Journal of Physics: Conference Series, 2006, 41, 135-142.	0.4	9
115	Describing Compton scattering and two-quanta positron annihilation based on Compton profiles: two models suited for the Monte Carlo method. Journal of Instrumentation, 2012, 7, P07018-P07018.	1.2	9
116	Hadron production simulation by FLUKA. Journal of Physics: Conference Series, 2013, 408, 012051.	0.4	9
117	FIRST experiment: Fragmentation of Ions Relevant for Space and Therapy. Journal of Physics: Conference Series, 2013, 420, 012061.	0.4	9
118	Enhancement of the ionoacoustic effect through ultrasound and photoacoustic contrast agents. Scientific Reports, 2021, 11, 2725.	3.3	9
119	The liquid argon TPC for the ICARUS experiment. Nuclear Physics, Section B, Proceedings Supplements, 1997, 54, 95-104.	0.4	8
120	Performance of an endcap prototype of the ATLAS accordion electromagnetic calorimeter. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 389, 398-408.	1.6	8
121	Study of solar neutrinos with the 600 t liquid argon ICARUS detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 455, 376-389.	1.6	8
122	The ICARUS liquid argon time projection chamber. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2001, 471, 272-275.	1.6	8
123	Hadronic models for cosmic ray physics: the FLUKA code. Nuclear Physics, Section B, Proceedings Supplements, 2008, 175-176, 88-95.	0.4	8
124	Radiation transport calculations and simulations. Radiation Protection Dosimetry, 2009, 137, 118-133.	0.8	8
125	Biological effectiveness of He-3 and He-4 ion beams for cancer hadrontherapy: a study based on the BIANCA biophysical model. Physics in Medicine and Biology, 2021, 66, 195009.	3.0	8
126	FLUKA cross sections for cosmic-ray interactions with the DRAGON2 code. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 008.	5.4	8



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127	Bremsstrahlung source terms for intermediate energy electron accelerators. Nuclear Instruments & Methods in Physics Research B, 1993, 82, 32-38.	1.4	7
128	A new calculation of atmospheric neutrino flux: the FLUKA approach. Nuclear Physics, Section B, Proceedings Supplements, 1999, 70, 358-360.	0.4	7
129	ICARUS. A status report. Nuclear Physics, Section B, Proceedings Supplements, 1999, 70, 453-457.	0.4	7
130	Extended calibration range for prompt photon emission in ion beam irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 745, 114-118.	1.6	7
131	Performance evaluation of a hit finding algorithm for the ICARUS detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1998, 412, 440-453.	1.6	6
132	Determination of through-going tracksâ€™ direction by means of $\hat{\gamma}$ -rays in the ICARUS liquid argon time projection chamber. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 449, 42-47.	1.6	6
133	Generator of neutrino-nucleon interactions for the FLUKA based simulation code. AIP Conference Proceedings, 2009, , .	0.4	6
134	Heavy-ion collisions: preliminary results of a new QMD model coupled with FLUKA. Journal of Physics: Conference Series, 2006, 41, 519-522.	0.4	5
135	CNGS neutrino beam: from CERN to Gran Sasso. Nuclear Physics, Section B, Proceedings Supplements, 2007, 168, 169-172.	0.4	5
136	CNGS neutrino beam for long base-line experiments: present status and perspectives. Nuclear Physics, Section B, Proceedings Supplements, 2009, 189, 263-270.	0.4	5
137	First tests for an online treatment monitoring system with in-beam PET for proton therapy. Journal of Instrumentation, 2015, 10, C01010-C01010.	1.2	5
138	Analysis of in-beam PET time-profiles in proton therapy. Journal of Instrumentation, 2019, 14, C02001-C02001.	1.2	5
139	Study of space charge in the ICARUS T600 detector. Journal of Instrumentation, 2020, 15, P07001-P07001.	1.2	5
140	Performance of a liquid argon accordion hadronic calorimeter prototype. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1995, 355, 295-307.	1.6	4
141	Construction and test of a fine-grained liquid argon preshower prototype. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 385, 47-57.	1.6	4
142	Attenuation curves in concrete for neutrons produced by 710 MeV $\hat{\mu}$ -particles on steel and water and by $^{337}\text{Ar}^{390}$ MeV/u Ne ions on Al, Cu and Pb. Nuclear Instruments & Methods in Physics Research B, 1999, 155, 102-109.	1.4	4
143	ICARUS 600 ton: A status report. Nuclear Physics, Section B, Proceedings Supplements, 2000, 85, 119-124.	0.4	4
144	Heavy ion interactions from Coulomb barrier to few GeV/n: Boltzmann Master Equation theory and FLUKA code performances. Brazilian Journal of Physics, 2004, 34, 897-900.	1.4	4

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145	Carbon induced reactions at low incident energies. Journal of Physics: Conference Series, 2006, 41, 212-218.	0.4	4
146	Measurement and Simulation of the Neutron Response and Detection Efficiency of a Pb-Scintillating Fiber Calorimeter. IEEE Transactions on Nuclear Science, 2008, 55, 1409-1412.	2.0	4
147	Proton therapy treatment monitoring with the DoPET system: activity range, positron emitters evaluation and comparison with Monte Carlo predictions. Journal of Instrumentation, 2017, 12, C12026-C12026.	1.2	4
148	Nuclear model developments in FLUKA for present and future applications. EPJ Web of Conferences, 2017, 146, 12005.	0.3	4
149	THE CNCS FACILITY: PERFORMANCE AND OPERATIONAL EXPERIENCE. , 2010, , .		4
150	Healthy Tissue Damage Following Cancer Ion Therapy: A Radiobiological Database Predicting Lymphocyte Chromosome Aberrations Based on the BIANCA Biophysical Model. International Journal of Molecular Sciences, 2021, 22, 10877.	4.1	4
151	The production of residual nuclei in peripheral hadronâ€”nucleus and nucleusâ€”nucleus collisions. Nuclear Physics, Section B, Proceedings Supplements, 1997, 52, 120-122.	0.4	3
152	Neutron irradiation of cold GaAs devices and circuits made with an ion-implanted monolithic process. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1997, 388, 399-407.	1.6	3
153	Event Generator Comparisons. Nuclear Physics, Section B, Proceedings Supplements, 2005, 139, 278-285.	0.4	3
154	The atmospheric neutrino fluxes below 100 MeV: the FLUKA results. Nuclear Physics, Section B, Proceedings Supplements, 2005, 145, 128-131.	0.4	3
155	New Results in Comprehensive Calculations of Heavy-Ion Interactions. AIP Conference Proceedings, 2005, , .	0.4	3
156	Secondary Cosmic Ray Particles due to GCR Interactions in the Earth's Atmosphere. AIP Conference Proceedings, 2008, , .	0.4	3
157	A dedicated tool for PET scanner simulations using FLUKA. , 2013, , .		3
158	Monte Carlo Latching Studies of Prompt-Gamma Detection During Hadrontherapy. IEEE Transactions on Nuclear Science, 2014, 61, 2540-2546.	2.0	3
159	PERFORMANCE AND OPERATIONAL EXPERIENCE OF THE CNCS FACILITY. , 2010, , .		3
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