

Domenico L Lo Presti

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/4569259/publications.pdf>

Version: 2024-02-01

243
papers

8,855
citations

70961

41
h-index

45213

90
g-index

249
all docs

249
docs citations

249
times ranked

10481
citing authors

#	ARTICLE	IF	CITATIONS
1	Multi-messenger Observations of a Binary Neutron Star Merger [*] . Astrophysical Journal Letters, 2017, 848, L12.	3.0	2,805
2	Letter of intent for KM3NeT 2.0. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 084001.	1.4	512
3	ANTARES: The first undersea neutrino telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 656, 11-38.	0.7	441
4	Observation of a large-scale anisotropy in the arrival directions of cosmic rays above 8×10^{18} eV. Science, 2017, 357, 1266-1270.	6.0	261
5	An Indication of Anisotropy in Arrival Directions of Ultra-high-energy Cosmic Rays through Comparison to the Flux Pattern of Extragalactic Gamma-Ray Sources [*] . Astrophysical Journal Letters, 2018, 853, L29.	3.0	165
6	The ANTARES optical module. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2002, 484, 369-383.	0.7	161
7	The NUMEN project: NUclear Matrix Elements for Neutrinoless double beta decay. European Physical Journal A, 2018, 54, 1.	1.0	146
8	The data acquisition system for the ANTARES neutrino telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 570, 107-116.	0.7	138
9	Search for High-energy Neutrinos from Binary Neutron Star Merger GW170817 with ANTARES, IceCube, and the Pierre Auger Observatory. Astrophysical Journal Letters, 2017, 850, L35.	3.0	135
10	Minimal incidence of neonatal/infancy onset diabetes in Italy is 1:90,000 live births. Acta Diabetologica, 2012, 49, 405-408.	1.2	130
11	SEARCH FOR COSMIC NEUTRINO POINT SOURCES WITH FOUR YEARS OF DATA FROM THE ANTARES TELESCOPE. Astrophysical Journal, 2012, 760, 53.	1.6	104
12	Transmission of light in deep sea water at the site of the Antares neutrino telescope. Astroparticle Physics, 2005, 23, 131-155.	1.9	101
13	First results of the Instrumentation Line for the deep-sea ANTARES neutrino telescope. Astroparticle Physics, 2006, 26, 314-324.	1.9	99
14	Measurement of the cosmic-ray energy spectrum above 2.5×10^{18} eV using the Pierre Auger Observatory. Physical Review D, 2020, 102, .	1.6	98
15	Time calibration of the ANTARES neutrino telescope. Astroparticle Physics, 2011, 34, 539-549.	1.9	85
16	Inferences on mass composition and tests of hadronic interactions from 0.3 to 100 EeV using the water-Cherenkov detectors of the Pierre Auger Observatory. Physical Review D, 2017, 96, .	1.6	82
17	A fast algorithm for muon track reconstruction and its application to the ANTARES neutrino telescope. Astroparticle Physics, 2011, 34, 652-662.	1.9	80
18	Features of the Energy Spectrum of Cosmic Rays above 2.5×10^{18} eV Using the Pierre Auger Observatory. Physical Review Letters, 2020, 125, 121106.	2.9	79

#	ARTICLE	IF	CITATIONS
19	Large-scale Cosmic-Ray Anisotropies above 4 EeV Measured by the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2018, 868, 4.	1.6	77
20	Study of large hemispherical photomultiplier tubes for the ANTARES neutrino telescope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2005, 555, 132-141.	0.7	71
21	Probing the origin of ultra-high-energy cosmic rays with neutrinos in the EeV energy range using the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 022-022.	1.9	64
22	Measurement of atmospheric neutrino oscillations with the ANTARES neutrino telescope. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 714, 224-230.	1.5	63
23	Reproductive function in male patients with type 1 diabetes mellitus. <i>Andrology</i> , 2015, 3, 1082-1087.	1.9	63
24	Deep seawater inherent optical properties in the Southern Ionian Sea. <i>Astroparticle Physics</i> , 2007, 27, 1-9.	1.9	62
25	The ANTARES optical beacon system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 578, 498-509.	0.7	61
26	Search for a diffuse flux of high-energy γ with the ANTARES neutrino telescope. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011, 696, 16-22.	1.5	59
27	AMADEUS – The acoustic neutrino detection test system of the ANTARES deep-sea neutrino telescope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 626-627, 128-143.	0.7	58
28	Deep-Sea Bioluminescence Blooms after Dense Water Formation at the Ocean Surface. <i>PLoS ONE</i> , 2013, 8, e67523.	1.1	58
29	Search for muon neutrinos from gamma-ray bursts with the ANTARES neutrino telescope using 2008 to 2011 data. <i>Astronomy and Astrophysics</i> , 2013, 559, A9.	2.1	57
30	Zenith distribution and flux of atmospheric muons measured with the 5-line ANTARES detector. <i>Astroparticle Physics</i> , 2010, 34, 179-184.	1.9	53
31	Sedimentation and fouling of optical surfaces at the ANTARES site. <i>Astroparticle Physics</i> , 2003, 19, 253-267.	1.9	51
32	Performance of the front-end electronics of the ANTARES neutrino telescope. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 622, 59-73.	0.7	51
33	Measurement of the atmospheric γ energy spectrum from 100 GeV to 200 TeV with the ANTARES telescope. <i>European Physical Journal C</i> , 2013, 73, 1.	1.4	51
34	SiCilia – Silicon Carbide Detectors for Intense Luminosity Investigations and Applications. <i>Sensors</i> , 2018, 18, 2289.	2.1	51
35	Recent achievements of the NEMO project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2008, 588, 111-118.	0.7	50
36	The positioning system of the ANTARES Neutrino Telescope. <i>Journal of Instrumentation</i> , 2012, 7, T08002-T08002.	0.5	48

#	ARTICLE	IF	CITATIONS
37	Performance of the first ANTARES detector line. <i>Astroparticle Physics</i> , 2009, 31, 277-283.	1.9	47
38	Deep sea tests of a prototype of the KM3NeT digital optical module. <i>European Physical Journal C</i> , 2014, 74, 1.	1.4	46
39	The energy spectrum of cosmic rays beyond the turn-down around 10^{17} eV as measured with the surface detector of the Pierre Auger Observatory. <i>European Physical Journal C</i> , 2021, 81, 1.	1.4	44
40	FIRST SEARCH FOR POINT SOURCES OF HIGH-ENERGY COSMIC NEUTRINOS WITH THE ANTARES NEUTRINO TELESCOPE. <i>Astrophysical Journal Letters</i> , 2011, 743, L14.	3.0	43
41	Search for relativistic magnetic monopoles with the ANTARES neutrino telescope. <i>Astroparticle Physics</i> , 2012, 35, 634-640.	1.9	43
42	The Italian project for a proton imaging device. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 576, 194-197.	0.7	40
43	The ANTARES telescope neutrino alert system. <i>Astroparticle Physics</i> , 2012, 35, 530-536.	1.9	39
44	Cosmic-Ray Anisotropies in Right Ascension Measured by the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2020, 891, 142.	1.6	39
45	Measurements of light transmission in deep sea with the AC9 transmissometer. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 487, 423-434.	0.7	38
46	First Measurement of the $^{116}\text{Cd}(^{20}\text{Ne},^{20}\text{O})^{116}\text{Sn}$ Reaction at 15,5 MeV. <i>Acta Physica Polonica B</i> , 2018, 49, 275.	0.3	37
47	$^{116}\text{Cd}(^{20}\text{Ne},^{20}\text{O})^{116}\text{Sn}$ elastic and inelastic scattering at 306 MeV. <i>Physical Review C</i> , 2019, 100, ...	1.1	36
48	Status of NEMO. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006, 567, 444-451.	0.7	35
49	Measurement of the atmospheric muon flux with a 4GeV threshold in the ANTARES neutrino telescope. <i>Astroparticle Physics</i> , 2010, 33, 86-90.	1.9	34
50	Geant4 simulation of plastic scintillator strips with embedded optical fibers for a prototype of tomographic system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 624, 583-590.	0.7	34
51	The PRIMA (PRoton IMAGING) collaboration: Development of a proton Computed Tomography apparatus. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 730, 178-183.	0.7	34
52	Measurement of the Fluctuations in the Number of Muons in Extensive Air Showers with the Pierre Auger Observatory. <i>Physical Review Letters</i> , 2021, 126, 152002.	2.9	34
53	A first search for coincident gravitational waves and high energy neutrinos using LIGO, Virgo and ANTARES data from 2007. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 008-008.	1.9	32
54	Recent results on the development of a proton computed tomography system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 732, 573-576.	0.7	31

#	ARTICLE	IF	CITATIONS
55	Muographic monitoring of the volcano-tectonic evolution of Mount Etna. <i>Scientific Reports</i> , 2020, 10, 11351.	1.6	31
56	A proton imaging device: Design and status of realization. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 612, 566-570.	0.7	30
57	Observation of inclined EeV air showers with the radio detector of the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2018, 2018, 026-026.	1.9	30
58	Prototype Tracking Studies for Proton CT. <i>IEEE Transactions on Nuclear Science</i> , 2007, 54, 140-145.	1.2	29
59	The PRIMA collaboration: Preliminary results in FBP reconstruction of pCT data. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2013, 730, 184-190.	0.7	29
60	Detection potential of the KM3NeT detector for high-energy neutrinos from the Fermi bubbles. <i>Astroparticle Physics</i> , 2013, 42, 7-14.	1.9	28
61	Characterization of a Silicon Strip Detector and a YAG:Ce Calorimeter for a Proton Computed Radiography Apparatus. <i>IEEE Transactions on Nuclear Science</i> , 2010, 57, 8-16.	1.2	27
62	Silicon carbide detectors study for NUMEN project. <i>EPJ Web of Conferences</i> , 2016, 117, 10006.	0.1	27
63	Monte Carlo evaluation of the Filtered Back Projection method for image reconstruction in proton computed tomography. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 658, 78-83.	0.7	25
64	A search for neutrino emission from the Fermi bubbles with the ANTARES telescope. <i>European Physical Journal C</i> , 2014, 74, 1.	1.4	25
65	The MEV project: Design and testing of a new high-resolution telescope for muography of Etna Volcano. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2018, 904, 195-201.	0.7	25
66	Measurement of the atmospheric muon flux with the NEMO Phase-1 detector. <i>Astroparticle Physics</i> , 2010, 33, 263-273.	1.9	24
67	Search for hidden high-Z materials inside containers with the Muon Portal Project. <i>Journal of Instrumentation</i> , 2014, 9, C01056-C01056.	0.5	24
68	Analysis of the background on cross section measurements with the MAGNEX spectrometer: The (20Ne, 20O) Double Charge Exchange case. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 980, 164500.	0.7	24
69	Towards a proton imaging system. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2010, 623, 588-590.	0.7	23
70	Recent results and perspectives of the NEMO project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2009, 602, 47-53.	0.7	22
71	Prevalence, Presentation and Clinical Evolution of Graves' Disease in Children and Adolescents with Type 1 Diabetes Mellitus. <i>Hormone Research in Paediatrics</i> , 2011, 76, 221-225.	0.8	22
72	Intrinsic limits on resolutions in muon- and electron-neutrino charged-current events in the KM3NeT/ORCA detector. <i>Journal of High Energy Physics</i> , 2017, 2017, 1.	1.6	22

#	ARTICLE	IF	CITATIONS
73	Charge-state distributions of ^{20}Ne ions emerging from thin foils. <i>Results in Physics</i> , 2019, 13, 102191.	2.0	22
74	PRIMA: An apparatus for medical application. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 658, 73-77.	0.7	21
75	Measurement of the atmospheric muon depth intensity relation with the NEMO Phase-2 tower. <i>Astroparticle Physics</i> , 2015, 66, 1-7.	1.9	21
76	Calibration of the logarithmic-periodic dipole antenna (LPDA) radio stations at the Pierre Auger Observatory using an octocopter. <i>Journal of Instrumentation</i> , 2017, 12, T10005-T10005.	0.5	21
77	Sensitivity of an underwater ÄEerenkov km^3 telescope to TeV neutrinos from Galactic microquasars. <i>Astroparticle Physics</i> , 2007, 28, 1-9.	1.9	20
78	The Data Acquisition and Transport Design for NEMO Phase 1. <i>IEEE Transactions on Nuclear Science</i> , 2008, 55, 233-240.	1.2	20
79	First results on dark matter annihilation in the Sun using the ANTARES neutrino telescope. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 032-032.	1.9	20
80	Data-driven estimation of the invisible energy of cosmic ray showers with the Pierre Auger Observatory. <i>Physical Review D</i> , 2019, 100, .	1.6	20
81	Multi-Messenger Physics With the Pierre Auger Observatory. <i>Frontiers in Astronomy and Space Sciences</i> , 2019, 6, .	1.1	20
82	Reconstruction of events recorded with the surface detector of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2020, 15, P10021-P10021.	0.5	20
83	Monte Carlo Studies of a Proton Computed Tomography System. <i>IEEE Transactions on Nuclear Science</i> , 2007, 54, 1487-1491.	1.2	19
84	The NEMO project: A status report. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 626-627, S25-S29.	0.7	19
85	Search for neutrino emission from gamma-ray flaring blazars with the ANTARES telescope. <i>Astroparticle Physics</i> , 2012, 36, 204-210.	1.9	19
86	A proton Computed Tomography based medical imaging system. <i>Journal of Instrumentation</i> , 2014, 9, C12009-C12009.	0.5	19
87	Fabrication, characterization and testing of silicon photomultipliers for the Muon Portal Project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2015, 787, 236-239.	0.7	18
88	Limits on point-like sources of ultra-high-energy neutrinos with the Pierre Auger Observatory. <i>Journal of Cosmology and Astroparticle Physics</i> , 2019, 2019, 004-004.	1.9	18
89	OFFSET: Optical Fiber Folded Scintillating Extended Tracker. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014, 737, 195-202.	0.7	16
90	GIGJ: A Crustal Gravity Model of the Guangdong Province for Predicting the Geoneutrino Signal at the JUNO Experiment. <i>Journal of Geophysical Research: Solid Earth</i> , 2019, 124, 4231-4249.	1.4	16

#	ARTICLE	IF	CITATIONS
91	Deep-learning based reconstruction of the shower maximum X_{max} using the water-Cherenkov detectors of the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P07019.	0.5	16
92	A four-channel, low-power CMOS charge preamplifier for silicon detectors with medium value of capacitance. <i>IEEE Transactions on Nuclear Science</i> , 1997, 44, 31-35.	1.2	15
93	Acoustic and optical variations during rapid downward motion episodes in the deep north-western Mediterranean Sea. <i>Deep-Sea Research Part I: Oceanographic Research Papers</i> , 2011, 58, 875-884.	0.6	15
94	Expansion cone for the 3-inch PMTs of the KM3NeT optical modules. <i>Journal of Instrumentation</i> , 2013, 8, T03006-T03006.	0.5	15
95	NEMO: Status of the Project. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2004, 136, 61-68.	0.5	14
96	Influence of the Earth's Magnetic Field on Large Area Photomultipliers. <i>IEEE Transactions on Nuclear Science</i> , 2012, 59, 1259-1267.	1.2	14
97	Design and characterisation of a real time proton and carbon ion radiography system based on scintillating optical fibres. <i>Physica Medica</i> , 2016, 32, 1124-1134.	0.4	14
98	^{16}O - ^{8}Be break-up states and cluster structure of ^{24}Mg . <i>European Physical Journal A</i> , 2001, 12, 327-334.	1.0	13
99	Studies of a full-scale mechanical prototype line for the ANTARES neutrino telescope and tests of a prototype instrument for deep-sea acoustic measurements. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2007, 581, 695-708.	0.7	13
100	A proton Computed Tomography system for medical applications. <i>Journal of Instrumentation</i> , 2013, 8, C02021-C02021.	0.5	13
101	First search for neutrinos in correlation with gamma-ray bursts with the ANTARES neutrino telescope. <i>Journal of Cosmology and Astroparticle Physics</i> , 2013, 2013, 006-006.	1.9	13
102	A large area cosmic ray detector for the inspection of hidden high-Z materials inside containers. <i>Journal of Physics: Conference Series</i> , 2013, 409, 012046.	0.3	13
103	Design, upgrade and characterization of the silicon photomultiplier front-end for the AMIGA detector at the Pierre Auger Observatory. <i>Journal of Instrumentation</i> , 2021, 16, P01026-P01026.	0.5	13
104	A Search for Ultra-high-energy Neutrinos from TXS 0506+056 Using the Pierre Auger Observatory. <i>Astrophysical Journal</i> , 2020, 902, 105.	1.6	13
105	YAG(Ce) crystal characterization with proton beams. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2011, 654, 349-353.	0.7	12
106	SEARCH FOR A CORRELATION BETWEEN ANTARES NEUTRINOS AND PIERRE AUGER OBSERVATORY UHECRs ARRIVAL DIRECTIONS. <i>Astrophysical Journal</i> , 2013, 774, 19.	1.6	12
107	Strip detectors for a portal monitor application. <i>Journal of Instrumentation</i> , 2014, 9, P11008-P11008.	0.5	12
108	Inertial bioluminescence rhythms at the Capo Passero (KM3NeT-Italia) site, Central Mediterranean Sea. <i>Scientific Reports</i> , 2017, 7, 44938.	1.6	12

#	ARTICLE	IF	CITATIONS
109	Silicon drift detector readout and on-line data reduction using a fast VLSI dedicated fuzzy processor. Information Sciences, 1996, 95, 233-260.	4.0	11
110	Switched capacitor arrays analog memory for sparse data sampling. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 434, 424-434.	0.7	11
111	NEMO: A PROJECT FOR A KM3 UNDERWATER DETECTOR FOR ASTROPHYSICAL NEUTRINOS IN THE MEDITERRANEAN SEA. International Journal of Modern Physics A, 2007, 22, 3509-3520.	0.5	11
112	Long term monitoring of the optical background in the Capo Passero deep-sea site with the NEMO tower prototype. European Physical Journal C, 2016, 76, 1.	1.4	11
113	The Muon Portal Project: Commissioning of the full detector and first results. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 912, 16-19.	0.7	11
114	Extraction of the muon signals recorded with the surface detector of the Pierre Auger Observatory using recurrent neural networks. Journal of Instrumentation, 2021, 16, P07016.	0.5	11
115	Measurement of the average shape of longitudinal profiles of cosmic-ray air showers at the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2019, 2019, 018-018.	1.9	10
116	First comparison of GEANT4 hadrontherapy physics model with experimental data for a NUMEN project reaction case. European Physical Journal A, 2020, 56, 1.	1.0	10
117	Search for magnetically-induced signatures in the arrival directions of ultra-high-energy cosmic rays measured at the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 017-017.	1.9	10
118	YAP(Ce) crystal characterization with proton beam up to 60MeV. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 586, 295-299.	0.7	9
119	The Muon Portal Project: Design and construction of a scanning portal based on muon tomography. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 322-325.	0.7	9
120	A 3â€­Year Sample of Almost 1,600 Elves Recorded Above South America by the Pierre Auger Cosmicâ€­Ray Observatory. Earth and Space Science, 2020, 7, e2019EA000582.	1.1	9
121	Periodic sea-level oscillation in Tokyo Bay detected with the Tokyo-Bay seafloor hyper-kilometric submarine deep detector (TS-HKMSDD). Scientific Reports, 2022, 12, 6097.	1.6	9
122	Design of a large area tomograph to search for high-Z materials inside containers by cosmic muons. , 2012, , .		8
123	Aging characterization on large area photo-multipliers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 725, 151-154.	0.7	8
124	Development of a scintillation-fiber detector for real-time particle tracking. Journal of Instrumentation, 2013, 8, P04015-P04015.	0.5	8
125	The optical modules of the phase-2 of the NEMO project. Journal of Instrumentation, 2013, 8, P07001-P07001.	0.5	8
126	A method to stabilise the performance of negatively fed KM3NeT photomultipliers. Journal of Instrumentation, 2016, 11, P12014-P12014.	0.5	8

#	ARTICLE	IF	CITATIONS
127	Proton computed tomography images with algebraic reconstruction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 652-655.	0.7	8
128	Feasibility Study of a New Cherenkov Detector for Improving Volcano Muography. Sensors, 2019, 19, 1183.	2.1	8
129	First results of undersea muography with the Tokyo-Bay Seafloor Hyper-Kilometric Submarine Deep Detector. Scientific Reports, 2021, 11, 19485.	1.6	8
130	A new multianodic large area photomultiplier to be used in underwater neutrino detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 605, 293-300.	0.7	7
131	Tomographic images by proton Computed Tomography system for proton therapy applications. , 2011, , .		7
132	Status and first results of the NEMO Phase-2 tower. Journal of Instrumentation, 2014, 9, C03045-C03045.	0.5	7
133	Design and characterisation of a YAG(Ce) calorimeter for proton Computed Tomography application. Journal of Instrumentation, 2015, 10, C03014-C03014.	0.5	7
134	Spectral calibration of the fluorescence telescopes of the Pierre Auger Observatory. Astroparticle Physics, 2017, 95, 44-56.	1.9	7
135	Improvements of data analysis and self-consistent monitoring methods for the MEV telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 958, 162052.	0.7	7
136	Neutron radiation effects on an electronic system on module. Review of Scientific Instruments, 2020, 91, 083301.	0.6	7
137	Characterization technique of sub-millimeter scintillating fibers. , 2011, , .		6
138	Design of a muonic tomographic detector to scan travelling containers. Journal of Instrumentation, 2014, 9, C05029-C05029.	0.5	6
139	QBeRT: an innovative instrument for qualification of particle beam in real-time. Journal of Instrumentation, 2016, 11, C11014-C11014.	0.5	6
140	Proton Computed Tomography: iterative image reconstruction and dose evaluation. Journal of Instrumentation, 2017, 12, C01034-C01034.	0.5	6
141	Investigation of the cosmic ray angular distribution and the East-West effect near the top of Etna volcano with the MEV telescope. European Physical Journal Plus, 2020, 135, 1.	1.2	6
142	NURE: An ERC project to study nuclear reactions for neutrinoless double beta decay. , 2017, , .		6
143	Low power multi-dynamics front-end architecture for the optical module of a neutrino underwater telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 602, 126-128.	0.7	5
144	A real-time, large area, high space resolution particle radiography system. Journal of Instrumentation, 2014, 9, C06012-C06012.	0.5	5

#	ARTICLE	IF	CITATIONS
145	Noise Pulses in Large Area Optical Modules. IEEE Transactions on Nuclear Science, 2014, 61, 2097-2104.	1.2	5
146	Mini-phoswich and SiPM for heavy ion detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 912, 128-131.	0.7	5
147	Challenges for high rate signal processing for the NUMEN experiment. Journal of Physics: Conference Series, 2018, 1056, 012034.	0.3	5
148	Studies on the response of a water-Cherenkov detector of the Pierre Auger Observatory to atmospheric muons using an RPC hodoscope. Journal of Instrumentation, 2020, 15, P09002-P09002.	0.5	5
149	Calibration of the underground muon detector of the Pierre Auger Observatory. Journal of Instrumentation, 2021, 16, P04003.	0.5	5
150	Testing effects of Lorentz invariance violation in the propagation of astroparticles with the Pierre Auger Observatory. Journal of Cosmology and Astroparticle Physics, 2022, 2022, 023.	1.9	5
151	A VLSI chip set for digital radiology with energy selection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 422, 357-362.	0.7	4
152	Low power electronics for a submarine neutrinos detector. Nuclear Physics, Section B, Proceedings Supplements, 2000, 87, 523-524.	0.5	4
153	Proton Radiography Studies for Proton CT. , 2006, , .		4
154	PRIMA proton imaging for clinical application. , 2012, , .		4
155	Measurement of the group velocity of light in sea water at the ANTARES site. Astroparticle Physics, 2012, 35, 552-557.	1.9	4
156	The Muon Portal Project: Development of an innovative scanning portal based on muon tomography. , 2013, , .		4
157	Muography as a new complementary tool in monitoring volcanic hazard: implications for early warning systems. Proceedings of the Royal Society A: Mathematical, Physical and Engineering Sciences, 2021, 477, .	1.0	4
158	Design study of a low-power, low-noise front-end for multianode silicon drift detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 552, 489-512.	0.7	3
159	Underwater acoustic positioning system for the SMO and KM3NeT - Italia projects. , 2014, , .		3
160	The trigger and data acquisition for the NEMO-Phase 2 tower. , 2014, , .		3
161	An Innovative Proton Tracking System for Qualification of Particle Beam in Real-Time. IEEE Transactions on Radiation and Plasma Medical Sciences, 2017, 1, 268-274.	2.7	3
162	Charge reconstruction in large-area photomultipliers. Journal of Instrumentation, 2018, 13, P02008-P02008.	0.5	3

#	ARTICLE	IF	CITATIONS
163	Cosmic Ray Muons as Penetrating Probes to Explore the World around Us. , 2018, , .		3
164	The read-out and data transmission for the MAGNEX focal plane detector for the NUMEN project. Journal of Physics: Conference Series, 2018, 1056, 012006.	0.3	3
165	A facility to validate photomultipliers for the upgrade of the Pierre Auger Observatory.. Journal of Instrumentation, 2020, 15, P07011-P07011.	0.5	3
166	Design and implementation of the AMIGA embedded system for data acquisition. Journal of Instrumentation, 2021, 16, T07008.	0.5	3
167	Design and Characterization of a Real Time, Large Area, High Spatial Resolution Particle Tracker Based on Scintillating Fibers. Biomedical Engineering Research, 2013, , 159-174.	0.2	3
168	A VLSI Full Custom ASIC Front End for the Optical Module of NEMO Underwater Neutrino Detector. , 0, , .		2
169	A VLSI ASIC front end for the optical module of the NEMO underwater neutrino detector. IEEE Transactions on Nuclear Science, 2006, 53, 709-714.	1.2	2
170	Development of a proton computed radiography apparatus. , 2008, , .		2
171	The PRIMA (Proton Imaging) collaboration: Status of the development of a proton Computed Tomography Scanner. , 2012, , .		2
172	A method for detection of muon induced electromagnetic showers with the ANTARES detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 675, 56-62.	0.7	2
173	Absolute and relative dosimetry for ELIMED. , 2013, , .		2
174	Development of a Real-Time, Large Area, High Spatial Resolution Particle Tracker Based on Scintillating Fibers. Advances in High Energy Physics, 2014, 2014, 1-13.	0.5	2
175	A study on large area Hamamatsu photomultipliers for Cherenkov neutrino detectors. Journal of Instrumentation, 2015, 10, T11003-T11003.	0.5	2
176	The Muon Portal Double Tracker for the Inspection of Travelling Containers. IEEE Transactions on Nuclear Science, 2015, 62, 3148-3154.	1.2	2
177	OFFSET3: A Real-Time Particle Tracker Based On Scintillating Optical Fibers. IEEE Transactions on Nuclear Science, 2015, 62, 1135-1141.	1.2	2
178	Proof-of-Principle results of proton computed tomography. , 2016, , .		2
179	The nuclear matrix elements of $01^{1/2}1^{1/2}2$ decay and the NUMEN project at INFN-LNS. EPJ Web of Conferences, 2016, 117, 10003.	0.1	2
180	A binary readout chip for silicon microstrip detector in proton imaging application. Journal of Instrumentation, 2017, 12, C01030-C01030.	0.5	2

#	ARTICLE	IF	CITATIONS
181	Measurement of nearly horizontal cosmic muons at high altitudes with the MEV telescope. European Physical Journal Plus, 2019, 134, 1.	1.2	2
182	Proof-of-Principle of a Cherenkov-Tag Detector Prototype. Sensors, 2020, 20, 3437.	2.1	2
183	Multiparametric approach to the assessment of muon tomographic results for the inspection of a full-scale container. European Physical Journal Plus, 2021, 136, 1.	1.2	2
184	The FRAM robotic telescope for atmospheric monitoring at the Pierre Auger Observatory. Journal of Instrumentation, 2021, 16, P06027.	0.5	2
185	Applying fuzzy techniques to particle detectors. , 0, , .		1
186	Smart readout of silicon drift detector using ON-LINE fuzzy logic. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2000, 443, 478-502.	0.7	1
187	FLUXEN portable equipment for direct X-ray spectra measurements. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 389-390.	0.7	1
188	Detailed Monte Carlo Investigation of a Proton Computed Tomography System. , 0, , .		1
189	Prototype Tracking Studies for Proton CT. , 0, , .		1
190	A VLSI full custom ASIC front end for the optical module of the NEMO underwater neutrino detector. , 2005, , .		1
191	A VLSI ASIC front end for the optical module of the NEMO underwater neutrino detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 567, 548-551.	0.7	1
192	A PMT interface for the Optical Module front-end of a neutrino underwater telescope. , 2007, , .		1
193	A real time, large area, high spatial resolution tracker based on square scintillating fibers. , 2012, , .		1
194	Comparative timing performances of S-CVD diamond detectors with different particle beams and readout electronics. , 2012, , .		1
195	Development of a Proton Computed Tomography system for pre-clinical tests. , 2012, , .		1
196	Long-term optical background measurements in the Capo Passero deep-sea site. , 2014, , .		1
197	The muon portal double tracker to inspect travelling containers. , 2014, , .		1
198	NUMEN Project @ LNS : Heavy ions double charge exchange reactions towards the $O^{1/2}I^{2}I^2$ nuclear matrix element determination. AIP Conference Proceedings, 2015, , .	0.3	1

#	ARTICLE	IF	CITATIONS
199	Front-end electronics for the Muon Portal project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 833, 169-180.	0.7	1
200	The nuclear matrix elements of $0\nu\bar{1}^2\bar{1}^2$ decay and the NUMEN project at INFN-LNS. Journal of Physics: Conference Series, 2016, 730, 012006.	0.3	1
201	Design and characterization of a real time particle radiography system based on scintillating optical fibers. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 845, 486-489.	0.7	1
202	The NUMEN project @ LNS: Status and perspectives. AIP Conference Proceedings, 2017, , .	0.3	1
203	A laser-based system for a fast and accurate measurement of gain and linearity of photomultipliers. Journal of Instrumentation, 2018, 13, T01007-T01007.	0.5	1
204	The nuclear matrix elements of $0\bar{1}^1_2\bar{1}^2$ decay and the NUMEN project at INFN-LNS. EPJ Web of Conferences, 2018, 194, 02001.	0.1	1
205	Measuring nuclear reaction cross sections to extract information on neutrinoless double beta decay. Journal of Physics: Conference Series, 2018, 966, 012021.	0.3	1
206	Experimental challenges in the measurement of double charge exchange reactions within the NUMEN project. Journal of Physics: Conference Series, 2018, 1078, 012008.	0.3	1
207	The NUMEN project @ LNS: Status and perspectives. AIP Conference Proceedings, 2019, , .	0.3	1
208	Recent results on heavy-ion induced reactions of interest for neutrinoless double beta decay at INFN-LNS. Journal of Physics: Conference Series, 2020, 1643, 012074.	0.3	1
209	Low power electronics for NEMO detector. AIP Conference Proceedings, 2000, , .	0.3	0
210	Low noise integrated preamplifier for application in Intermediate Energy Physics Experiments. AIP Conference Proceedings, 2000, , .	0.3	0
211	Performance and perspectives of silicon detector telescopes. Nuclear Physics, Section B, Proceedings Supplements, 2006, 150, 227-230.	0.5	0
212	Residual energy measurements for proton computed tomography. , 2007, , .		0
213	Timing calibration for the NEMO (NEutrino Mediterranean Observatory) prototype. , 2007, , .		0
214	Low-power front-end for the optical module of a neutrino underwater telescope. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 596, 100-102.	0.7	0
215	Development realization and test of an electronic data acquisition board for the NEMO experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 596, 103-106.	0.7	0
216	PROGRESS TOWARD A PROTON COMPUTED TOMOGRAPHY APPARATUS. , 2008, , .		0

#	ARTICLE	IF	CITATIONS
217	First Results and Realization Status of a Proton Computed Radiography Device. Nuclear Physics, Section B, Proceedings Supplements, 2009, 197, 39-42.	0.5	0
218	Assembling and test of a proton computed radiography apparatus. , 2009, , .		0
219	1423 poster IMAGING CHARACTERIZATION OF PRIMA PROTON IMAGING DEVICE. Radiotherapy and Oncology, 2011, 99, S529.	0.3	0
220	The muon portal project: A dedicated muon detector for the inspection of shipping containers. , 2013, , .		0
221	New bi-dimensional SPAD arrays for time resolved single photon imaging. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 718, 566-568.	0.7	0
222	Towards a large area apparatus for Proton Computed Tomography. , 2013, , .		0
223	Characterization of a YAG:Ce calorimeter with high-energy proton beam. , 2014, , .		0
224	Construction and characterization of the detection modules for the Muon Portal Project. , 2015, , .		0
225	Measurement of the atmospheric muon flux at 3500 m depth with the NEMO Phase-2 detector. EPJ Web of Conferences, 2016, 121, 05015.	0.1	0
226	NUMEN Project @ LNS : Heavy Ions Double Charge Exchange as a tool towards the $0^{1/2} \langle i \rangle \hat{1}^2 \langle /i \rangle$ Nuclear Matrix Element. Journal of Physics: Conference Series, 2016, 724, 012001.	0.3	0
227	Post-stripper study for the ($\langle \text{sup} \rangle 20 \langle /sup \rangle \text{Ne}$, $\langle \text{sup} \rangle 20 \langle /sup \rangle \text{O}$) double charge exchange reaction at zero degrees with the MAGNEX spectrometer. Journal of Physics: Conference Series, 2018, 1056, 012052.	0.3	0
228	Experimental challenges for the measurement of the $\langle \text{sup} \rangle 116 \langle /sup \rangle \text{Cd}(\langle \text{sup} \rangle 20 \langle /sup \rangle \text{Ne}, \langle \text{sup} \rangle 20 \langle /sup \rangle \text{O}) \langle \text{sup} \rangle 116 \langle /sup \rangle \text{Sn}$ double charge exchange reaction at 15 AMeV. Journal of Physics: Conference Series, 2018, 1023, 012006.	0.3	0
229	Data reduction for experimental measurements within the NUMEN project. Journal of Physics: Conference Series, 2018, 1056, 012010.	0.3	0
230	Focal plane detector optical readout. Journal of Physics: Conference Series, 2018, 1056, 012023.	0.3	0
231	The Front-end for the new focal plane detector for the NUMEN project. Journal of Physics: Conference Series, 2018, 1056, 012007.	0.3	0
232	Experimental issues for the measurement of the double charge exchange reactions within the NUMEN project. Journal of Physics: Conference Series, 2018, 1056, 012011.	0.3	0
233	Heavy-ion particle identification for the transfer reaction channels for the system $18\text{O} + 116\text{Sn}$ under the NUMEN Project. Journal of Physics: Conference Series, 2018, 1056, 012015.	0.3	0
234	Recent results on Heavy-Ion induced reactions of interest for $0^{1/2} \hat{1}^2$ decay. Journal of Physics: Conference Series, 2019, 1308, 012002.	0.3	0

#	ARTICLE	IF	CITATIONS
235	New experimental campaign of NUMEN project. AIP Conference Proceedings, 2019, , .	0.3	0
236	The NUMEN project @ LNS: Status and perspectives. AIP Conference Proceedings, 2019, , .	0.3	0
237	Real-Time Particle Radiography by Means of Scintillating Fibers Tracker and Residual Range Detectors. , O, , .		0
238	Recent results on heavy-ion induced reactions of interest for neutrinoless double beta decay at INFN-LNS. EPJ Web of Conferences, 2019, 223, 01009.	0.1	0
239	Upgrade of the Proton Computed Tomography System of the PRIMA Project. , 2012, , .		0
240	NUMEN project @ LNS: Status and perspectives. , 2017, , .		0
241	New results from the NUMEN project. , 2019, , .		0
242	Background estimate in heavy-ion two-body reactions measured by the MAGNEX spectrometer. Journal of Physics: Conference Series, 2020, 1643, 012019.	0.3	0
243	Three years of muography at Mount Etna: results and perspectives. Journal of Instrumentation, 2022, 17, C02003.	0.5	0