

Danilo Bonanno

List of Publications by Year in descending order

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Version: 2024-02-01

71
papers

641
citations

686830

13
h-index

610482

24
g-index

73
all docs

73
docs citations

73
times ranked

448
citing authors

#	ARTICLE	IF	CITATIONS
1	The NUMEN project: NUclear Matrix Elements for Neutrinoless double beta decay. European Physical Journal A, 2018, 54, 1.	1.0	146
2	Analysis of two-nucleon transfer reactions in the $^{20}\text{Ne} + ^{116}\text{Cd}$ system at 306 MeV. Physical Review C, 2020, 102, .	1.1	42
3	First Measurement of the $^{116}\text{Cd}(\text{Ne}, \text{O})^{116}\text{Sn}$ Reaction at 15, \$A\$, MeV. Acta Physica Polonica B, 2018, 49, 275.	0.3	37
4	Analysis of two-nucleon transfer reactions in the $^{20}\text{Ne} + ^{76}\text{Ge}$ system at 306 MeV. Physical Review C, 2019, 100, .	1.1	36
5	Muographic monitoring of the volcano-tectonic evolution of Mount Etna. Scientific Reports, 2020, 10, 11351.	1.6	31
6	Silicon carbide detectors study for NUMEN project. EPJ Web of Conferences, 2016, 117, 10006.	0.1	27
7	The MEV project: Design and testing of a new high-resolution telescope for muography of Etna Volcano. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2018, 904, 195-201.	0.7	25
8	Search for hidden high-Z materials inside containers with the Muon Portal Project. Journal of Instrumentation, 2014, 9, C01056-C01056.	0.5	24
9	Analysis of the background on cross section measurements with the MAGNEX spectrometer: The (20Ne, 200) Double Charge Exchange case. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 980, 164500.	0.7	24
10	Charge-state distributions of 20Ne ions emerging from thin foils. Results in Physics, 2019, 13, 102191.	2.0	22
11	Fabrication, characterization and testing of silicon photomultipliers for the Muon Portal Project. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 787, 236-239.	0.7	18
12	OFFSET: Optical Fiber Folded Scintillating Extended Tracker. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 737, 195-202.	0.7	16
13	Design and characterisation of a real time proton and carbon ion radiography system based on scintillating optical fibres. Physica Medica, 2016, 32, 1124-1134.	0.4	14
14	Strip detectors for a portal monitor application. Journal of Instrumentation, 2014, 9, P11008-P11008.	0.5	12
15	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
16	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
17	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
18	Design of a large area tomograph to search for high-Z materials inside containers by cosmic muons. , 2012, , .		8

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19	Development of a scintillation-fiber detector for real-time particle tracking. Journal of Instrumentation, 2013, 8, P04015-P04015.	0.5	8
20	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
21	Feasibility Study of a New Cherenkov Detector for Improving Volcano Muography. Sensors, 2019, 19, 1183.	2.1	8
22	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
23	Neutron radiation effects on an electronic system on module. Review of Scientific Instruments, 2020, 91, 083301.	0.6	7
24	Design of a muonic tomographic detector to scan travelling containers. Journal of Instrumentation, 2014, 9, C05029-C05029.	0.5	6
25	QBeRT: an innovative instrument for qualification of particle beam in real-time. Journal of Instrumentation, 2016, 11, C11014-C11014.	0.5	6
26	Proton Computed Tomography: iterative image reconstruction and dose evaluation. Journal of Instrumentation, 2017, 12, C01034-C01034.	0.5	6
27	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
28	NURE: An ERC project to study nuclear reactions for neutrinoless double beta decay. , 2017, , .		6
29	A real-time, large area, high space resolution particle radiography system. Journal of Instrumentation, 2014, 9, C06012-C06012.	0.5	5
30	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
31	Challenges for high rate signal processing for the NUMEN experiment. Journal of Physics: Conference Series, 2018, 1056, 012034.	0.3	5
32	The Muon Portal Project: Development of an innovative scanning portal based on muon tomography. , 2013, , .		4
33	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
34	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
35	A facility to validate photomultipliers for the upgrade of the Pierre Auger Observatory.. Journal of Instrumentation, 2020, 15, P07011-P07011.	0.5	3
36	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

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37	Development of a Real-Time, Large Area, High Spatial Resolution Particle Tracker Based on Scintillating Fibers. <i>Advances in High Energy Physics</i> , 2014, 2014, 1-13.	0.5	2
38	A study on large area Hamamatsu photomultipliers for Cherenkov neutrino detectors. <i>Journal of Instrumentation</i> , 2015, 10, T11003-T11003.	0.5	2
39	OFFSET3: A Real-Time Particle Tracker Based On Scintillating Optical Fibers. <i>IEEE Transactions on Nuclear Science</i> , 2015, 62, 1135-1141.	1.2	2
40	Proof-of-Principle results of proton computed tomography. , 2016, , .		2
41	A binary readout chip for silicon microstrip detector in proton imaging application. <i>Journal of Instrumentation</i> , 2017, 12, C01030-C01030.	0.5	2
42	Measurement of nearly horizontal cosmic muons at high altitudes with the MEV telescope. <i>European Physical Journal Plus</i> , 2019, 134, 1.	1.2	2
43	Proof-of-Principle of a Cherenkov-Tag Detector Prototype. <i>Sensors</i> , 2020, 20, 3437.	2.1	2
44	Multiparametric approach to the assessment of muon tomographic results for the inspection of a full-scale container. <i>European Physical Journal Plus</i> , 2021, 136, 1.	1.2	2
45	A real time, large area, high spatial resolution tracker based on square scintillating fibers. , 2012, , .		1
46	The muon portal double tracker to inspect travelling containers. , 2014, , .		1
47	NUMEN Project @ LNS : Heavy ions double charge exchange reactions towards the $0\nu\hat{1}/2\hat{1}^2\hat{1}^2$ nuclear matrix element determination. <i>AIP Conference Proceedings</i> , 2015, , .	0.3	1
48	Front-end electronics for the Muon Portal project. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2016, 833, 169-180.	0.7	1
49	The nuclear matrix elements of $0\nu\hat{1}^2\hat{1}^2$ decay and the NUMEN project at INFN-LNS. <i>Journal of Physics: Conference Series</i> , 2016, 730, 012006.	0.3	1
50	Design and characterization of a real time particle radiography system based on scintillating optical fibers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2017, 845, 486-489.	0.7	1
51	The NUMEN project @ LNS: Status and perspectives. <i>AIP Conference Proceedings</i> , 2017, , .	0.3	1
52	A laser-based system for a fast and accurate measurement of gain and linearity of photomultipliers. <i>Journal of Instrumentation</i> , 2018, 13, T01007-T01007.	0.5	1
53	The nuclear matrix elements of $0\nu\hat{1}/2\hat{1}^2\hat{1}^2$ decay and the NUMEN project at INFN-LNS. <i>EPJ Web of Conferences</i> , 2018, 194, 02001.	0.1	1
54	Measuring nuclear reaction cross sections to extract information on neutrinoless double beta decay. <i>Journal of Physics: Conference Series</i> , 2018, 966, 012021.	0.3	1

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55	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
56	The muon portal project: A dedicated muon detector for the inspection of shipping containers. , 2013, , .		0
57	Construction and characterization of the detection modules for the Muon Portal Project. , 2015, , .		0
58	NUMEN Project @ LNS : Heavy Ions Double Charge Exchange as a tool towards the $0^{1/2} \langle i \rangle \hat{I}^2 \langle /i \rangle$ Nuclear Matrix Element. Journal of Physics: Conference Series, 2016, 724, 012001.	0.3	0
59	Post-stripper study for the ($\langle \sup>20 \langle /sup>$ Ne, $\langle \sup>20 \langle /sup>$ O) double charge exchange reaction at zero degrees with the MAGNEX spectrometer. Journal of Physics: Conference Series, 2018, 1056, 012052.	0.3	0
60	Experimental challenges for the measurement of the $\langle \sup>116 \langle /sup>$ Cd($\langle \sup>20 \langle /sup>$ Ne, $\langle \sup>20 \langle /sup>$ O) $\langle \sup>116 \langle /sup>$ Sn double charge exchange reaction at 15 AMeV. Journal of Physics: Conference Series, 2018, 1023, 012006.	0.3	0
61	Data reduction for experimental measurements within the NUMEN project. Journal of Physics: Conference Series, 2018, 1056, 012010.	0.3	0
62	Focal plane detector optical readout. Journal of Physics: Conference Series, 2018, 1056, 012023.	0.3	0
63	The Front-end for the new focal plane detector for the NUMEN project. Journal of Physics: Conference Series, 2018, 1056, 012007.	0.3	0
64	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
65	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
66	Recent results on Heavy-Ion induced reactions of interest for $0^{1/2} \hat{I}^2$ decay. Journal of Physics: Conference Series, 2019, 1308, 012002.	0.3	0
67	New experimental campaign of NUMEN project. AIP Conference Proceedings, 2019, , .	0.3	0
68	Real-Time Particle Radiography by Means of Scintillating Fibers Tracker and Residual Range Detectors. , 0, , .		0
69	New Results from the NUMEN Project. , 2020, , .		0
70	NUMEN project @ LNS: Status and perspectives. , 2017, , .		0
71	New results from the NUMEN project. , 2019, , .		0