# Danilo Bonanno

List of Publications by Year
in descending order



| 71 | 641 | 686830 13 | 610482 24 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 73 | 73 | 73 | 448 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | 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 |
| 2 | 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 |
| 3 | New Results from the NUMEN Project. , 2020, , . | | 0 |
| 4 | Analysis of two-nucleon transfer reactions in the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Ne</mml:mi><mml:mprescripts /><mml:none /><mml:mn>20</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mi>Cd</mml:mi><mml:mprescripts /><mml:none /><mml:mn>116</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> system at 306 MeV. Physical Review C, 2020, 102, . | 1.1 | 42 |
| 5 | A facility to validate photomultipliers for the upgrade of the Pierre Auger Observatory.. Journal of Instrumentation, 2020, 15, P07011-P07011. | 0.5 | 3 |
| 6 | Muographic monitoring of the volcano-tectonic evolution of Mount Etna. Scientific Reports, 2020, 10, 11351. | 1.6 | 31 |
| 7 | Analysis of the background on cross section measurements with the MAGNEX spectrometer: The (20Ne, 20O) 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 |
| 8 | Neutron radiation effects on an electronic system on module. Review of Scientific Instruments, 2020, 91, 083301. | 0.6 | 7 |
| 9 | 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 |
| 10 | Investigation of the cosmic ray angular distribution and the Eastâ€“West effect near the top of Etna volcano with the MEV telescope. European Physical Journal Plus, 2020, 135, 1. | 1.2 | 6 |
| 11 | Proof-of-Principle of a Cherenkov-Tag Detector Prototype. Sensors, 2020, 20, 3437. | 2.1 | 2 |
| 12 | Recent results on Heavy-Ion induced reactions of interest for 0Î½Î²Î² decay. Journal of Physics: Conference Series, 2019, 1308, 012002. | 0.3 | 0 |
| 13 | New experimental campaign of NUMEN project. AIP Conference Proceedings, 2019, , . | 0.3 | 0 |
| 14 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:mmultiscripts><mml:mi>Ne</mml:mi><mml:mprescripts /><mml:none /><mml:mn>20</mml:mn></mml:mmultiscripts><mml:mo>+</mml:mo><mml:mmultiscripts><mml:mi>Ge</mml:mi><mml:mprescripts /><mml:none /><mml:mn>76</mml:mn></mml:mmultiscripts></mml:mrow></mml:math> elastic and inelastic scattering at 306 MeV. Physical Review C, 2019, 100, . | 1.1 | 36 |
| 15 | Measurement of nearly horizontal cosmic muons at high altitudes with the MEV telescope. European Physical Journal Plus, 2019, 134, 1. | 1.2 | 2 |
| 16 | Charge-state distributions of 20Ne ions emerging from thin foils. Results in Physics, 2019, 13, 102191. | 2.0 | 22 |
| 17 | Feasibility Study of a New Cherenkov Detector for Improving Volcano Muography. Sensors, 2019, 19, 1183. | 2.1 | 8 |
| 18 | New results from the NUMEN project. , 2019, , . | | 0 |

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|---|---|---|---|
| 19 | 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 |
| 20 | 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 |
| 21 | 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 |
| 22 | The nuclear matrix elements of 0Î½Î²Î² decay and the NUMEN project at INFN-LNS. EPJ Web of Conferences, 2018, 194, 02001. | 0.1 | 1 |
| 23 | Post-stripper study for the (<sup>20</sup>Ne, <sup>20</sup>O) double charge exchange reaction at zero degrees with the MAGNEX spectrometer. Journal of Physics: Conference Series, 2018, 1056, 012052. | 0.3 | 0 |
| 24 | Experimental challenges for the measurement of the <sup>116</sup>Cd(<sup>20</sup>Ne,<sup>20</sup>O)<sup>116</sup>Sn double charge exchange reaction at 15 AMeV. Journal of Physics: Conference Series, 2018, 1023, 012006. | 0.3 | 0 |
| 25 | Data reduction for experimental measurements within the NUMEN project. Journal of Physics: Conference Series, 2018, 1056, 012010. | 0.3 | 0 |
| 26 | 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 |
| 27 | Focal plane detector optical readout. Journal of Physics: Conference Series, 2018, 1056, 012023. | 0.3 | 0 |
| 28 | Measuring nuclear reaction cross sections to extract information on neutrinoless double beta decay. Journal of Physics: Conference Series, 2018, 966, 012021. | 0.3 | 1 |
| 29 | The Front-end for the new focal plane detector for the NUMEN project. Journal of Physics: Conference Series, 2018, 1056, 012007. | 0.3 | 0 |
| 30 | 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 |
| 31 | 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 |
| 32 | Heavyâ€“ion particle identification for the transfer reaction channels for the system 18O + 116Sn under the NUMEN Project. Journal of Physics: Conference Series, 2018, 1056, 012015. | 0.3 | 0 |
| 33 | Challenges for high rate signal processing for the NUMEN experiment. Journal of Physics: Conference Series, 2018, 1056, 012034. | 0.3 | 5 |
| 34 | The NUMEN project: NUclear Matrix Elements for Neutrinoless double beta decay. European Physical Journal A, 2018, 54, 1. | 1.0 | 146 |
| 35 | 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 |
| 36 | First Measurement of the $^{116}$Cd($^{20}$Ne,$^{20}$O)$^{116}$Sn Reaction at 15,$A$,MeV. Acta Physica Polonica B, 2018, 49, 275. | 0.3 | 37 |

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|---|---|---|---|
| 37 | 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 |
| 38 | 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 |
| 39 | Proton Computed Tomography: iterative image reconstruction and dose evaluation. Journal of Instrumentation, 2017, 12, C01034-C01034. | 0.5 | 6 |
| 40 | A binary readout chip for silicon microstrip detector in proton imaging application. Journal of Instrumentation, 2017, 12, C01030-C01030. | 0.5 | 2 |
| 41 | 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 |
| 42 | 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 |
| 43 | The NUMEN project @ LNS: Status and perspectives. AIP Conference Proceedings, 2017, , . | 0.3 | 1 |
| 44 | NURE: An ERC project to study nuclear reactions for neutrinoless double beta decay. , 2017, , . | | 6 |
| 45 | NUMEN project @ LNS: Status and perspectives. , 2017, , . | | 0 |
| 46 | NUMEN Project @ LNS : Heavy Ions Double Charge Exchange as a tool towards the 0Î½Î²Î²Nuclear Matrix Element. Journal of Physics: Conference Series, 2016, 724, 012001. | 0.3 | 0 |
| 47 | Proof-of-Principle results of proton computed tomography. , 2016, , . | | 2 |
| 48 | Silicon carbide detectors study for NUMEN project. EPJ Web of Conferences, 2016, 117, 10006. | 0.1 | 27 |
| 49 | QBeRT: an innovative instrument for qualification of particle beam in real-time. Journal of Instrumentation, 2016, 11, C11014-C11014. | 0.5 | 6 |
| 50 | 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 |
| 51 | 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 |
| 52 | The nuclear matrix elements of 0νÎ²Î² decay and the NUMEN project at INFN-LNS. Journal of Physics: Conference Series, 2016, 730, 012006. | 0.3 | 1 |
| 53 | NUMEN Project @ LNS : Heavy ions double charge exchange reactions towards the 0Î½Î²Î²Î² nuclear matrix element determination. AIP Conference Proceedings, 2015, , . | 0.3 | 1 |
| 54 | Construction and characterization of the detection modules for the Muon Portal Project. , 2015, , . | | 0 |

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| 55 | A study on large area Hamamatsu photomultipliers for Cherenkov neutrino detectors. Journal of Instrumentation, 2015, 10, T11003-T11003. | 0.5 | 2 |
| 56 | 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 |
| 57 | OFFSET3: A Real-Time Particle Tracker Based On Scintillating Optical Fibers. IEEE Transactions on Nuclear Science, 2015, 62, 1135-1141. | 1.2 | 2 |
| 58 | 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 |
| 59 | A real-time, large area, high space resolution particle radiography system. Journal of Instrumentation, 2014, 9, C06012-C06012. | 0.5 | 5 |
| 60 | The muon portal double tracker to inspect travelling containers. , 2014, , . | | 1 |
| 61 | Search for hidden high-Z materials inside containers with the Muon Portal Project. Journal of Instrumentation, 2014, 9, C01056-C01056. | 0.5 | 24 |
| 62 | 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 |
| 63 | Strip detectors for a portal monitor application. Journal of Instrumentation, 2014, 9, P11008-P11008. | 0.5 | 12 |
| 64 | Design of a muonic tomographic detector to scan travelling containers. Journal of Instrumentation, 2014, 9, C05029-C05029. | 0.5 | 6 |
| 65 | The muon portal project: A dedicated muon detector for the inspection of shipping containers. , 2013, , . | | 0 |
| 66 | The Muon Portal Project: Development of an innovative scanning portal based on muon tomography. , 2013, , . | | 4 |
| 67 | Development of a scintillation-fiber detector for real-time particle tracking. Journal of Instrumentation, 2013, 8, P04015-P04015. | 0.5 | 8 |
| 68 | 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 |
| 69 | A real time, large area, high spatial resolution tracker based on square scintillating fibers. , 2012, , . | | 1 |
| 70 | Design of a large area tomograph to search for high-Z materials inside containers by cosmic muons. , 2012, , . | | 8 |
| 71 | Real-Time Particle Radiography by Means of Scintillating Fibers Tracker and Residual Range Detectors. , 0, , . | | 0 |