Stefano Mastroianni

List of Publications by Year in descending order

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| | | 117453 | 98622 |
|----------|----------------|--------------|----------------|
| 111 | 4,580 | 34 | 67 |
| papers | citations | h-index | g-index |
| | | | |
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| 112 | 113 | 113 | 6271 |
| 115 | 115 | 115 | 0271 |
| all docs | docs citations | times ranked | citing authors |
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| # | Article | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Measurement of the Positive Muon Anomalous Magnetic Moment to 0.46Âppm. Physical Review Letters, 2021, 126, 141801. | 2.9 | 991 |
| 2 | Light Dark Matter Search with Ionization Signals in XENON1T. Physical Review Letters, 2019, 123, 251801. | 2.9 | 344 |
| 3 | Excess electronic recoil events in XENON1T. Physical Review D, 2020, 102, . | 1.6 | 302 |
| 4 | Constraining the Spin-Dependent WIMP-Nucleon Cross Sections with XENON1T. Physical Review Letters, 2019, 122, 141301. | 2.9 | 183 |
| 5 | Layout and performance of RPCs used in the Argo-YBJ experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 562, 92-96. | 0.7 | 160 |
| 6 | Projected WIMP sensitivity of the XENONnT dark matter experiment. Journal of Cosmology and Astroparticle Physics, 2020, 2020, 031-031. | 1.9 | 159 |
| 7 | Search for Light Dark Matter Interactions Enhanced by the Migdal Effect or Bremsstrahlung in XENON1T. Physical Review Letters, 2019, 123, 241803. | 2.9 | 158 |
| 8 | Measurement of the anomalous precession frequency of the muon in the Fermilab Muon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>g</mml:mi><mml:mo>â^^</mml:mo><mml:mn>2</mml:mn> Experiment. Physical Review D, 2021, 103, .</mml:math | 1.6 | 105 |
| 9 | Knee of the cosmic hydrogen and helium spectrum below 1ÂPeV measured by ARGO-YBJ and a Cherenkov telescope of LHAASO. Physical Review D, 2015, 92, . | 1.6 | 94 |
| 10 | Observation of two-neutrino double electron capture in 124Xe with XENON1T. Nature, 2019, 568, 532-535. | 13.7 | 89 |
| 11 | IDENTIFICATION OF THE TeV GAMMA-RAY SOURCE ARGO J2031+4157 WITH THE CYGNUS COCOON. Astrophysical Journal, 2014, 790, 152. | 1.6 | 73 |
| 12 | STUDY OF THE DIFFUSE GAMMA-RAY EMISSION FROM THE GALACTIC PLANE WITH ARGO-YBJ. Astrophysical Journal, 2015, 806, 20. | 1.6 | 69 |
| 13 | LONG-TERM MONITORING OF THE TeV EMISSION FROM Mrk 421 WITH THE ARGO-YBJ EXPERIMENT. Astrophysical Journal, 2011, 734, 110. | 1.6 | 67 |
| 14 | TeV GAMMA-RAY SURVEY OF THE NORTHERN SKY USING THE ARGO-YBJ DETECTOR. Astrophysical Journal, 2013, 779, 27. | 1.6 | 64 |
| 15 | Observation of the cosmic ray moon shadowing effect with the ARGO-YBJ experiment. Physical Review D, 2011, 84, . | 1.6 | 63 |
| 16 | Medium scale anisotropy in the TeV cosmic ray flux observed by ARGO-YBJ. Physical Review D, 2013, 88, . | 1.6 | 57 |
| 17 | Proton-air cross section measurement with the ARGO-YBJ cosmic ray experiment. Physical Review D, 2009, 80, . | 1.6 | 56 |
| 18 | XENON1T dark matter data analysis: Signal and background models and statistical inference. Physical Review D, 2019, 99, . | 1.6 | 56 |

| # | Article | IF | CITATIONS |
|----|--|----------------------|-------------------|
| 19 | Magnetic-field measurement and analysis for the Muon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> <mml:mrow> <mml:mi>g </mml:mi> <mml:mo>â^` Experiment at Fermilab. Physical Review A, 2021, 103, .</mml:mo></mml:mrow></mml:math | o si s o nml: | mn 5 4 |
| 20 | OBSERVATION OF TeV GAMMA RAYS FROM THE CYGNUS REGION WITH THE ARGO-YBJ EXPERIMENT. Astrophysical Journal Letters, 2012, 745, L22. | 3.0 | 51 |
| 21 | ARGO-YBJ OBSERVATION OF THE LARGE-SCALE COSMIC RAY ANISOTROPY DURING THE SOLAR MINIMUM BETWEEN CYCLES 23 AND 24. Astrophysical Journal, 2015, 809, 90. | 1.6 | 51 |
| 22 | XENON1T dark matter data analysis: Signal reconstruction, calibration, and event selection. Physical Review D, 2019, 100, . | 1.6 | 51 |
| 23 | xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> <mml:mrow><mml:mmultiscripts><mml:mrow><mml:mi mathvariant="normal">B</mml:mi </mml:mrow><mml:mprescripts></mml:mprescripts><mml:none< td=""><td>2.9</td><td>50</td></mml:none<></mml:mmultiscripts></mml:mrow> | 2.9 | 50 |
| 24 | Temperature effect on RPC performance in the ARGO-YBJ experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 608, 246-250. | 0.7 | 49 |
| 25 | Light-component spectrum of the primary cosmic rays in the multi-TeV region measured by the ARGO-YBJ experiment. Physical Review D, 2012, 85, . | 1.6 | 49 |
| 26 | LONG-TERM MONITORING OF MRK 501 FOR ITS VERY HIGH ENERGY Î ³ EMISSION AND A FLARE IN 2011 OCTOBE Astrophysical Journal, 2012, 758, 2. | R. _{1.6} | 49 |
| 27 | GAMMA-RAY FLARES FROM Mrk421 IN 2008 OBSERVED WITH THE ARGO-YBJ DETECTOR. Astrophysical Journal Letters, 2010, 714, L208-L212. | 3.0 | 46 |
| 28 | 4.5 YEARS OF MULTI-WAVELENGTH OBSERVATIONS OF MRK 421 DURING THE ARGO-YBJ AND FERMI COMMON OPERATION TIME. Astrophysical Journal, Supplement Series, 2016, 222, 6. | 3.0 | 46 |
| 29 | Software timing calibration of the ARGO-YBJ detector. Astroparticle Physics, 2009, 30, 287-292. | 1.9 | 40 |
| 30 | Energy resolution and linearity of XENON1T in the MeV energy range. European Physical Journal C, 2020, 80, 1. | 1.4 | 40 |
| 31 | Scaler mode technique for the ARGO-YBJ detector. Astroparticle Physics, 2008, 30, 85-95. | 1.9 | 39 |
| 32 | OBSERVATION OF THE TeV GAMMA-RAY SOURCE MGRO J1908+06 WITH ARGO-YBJ. Astrophysical Journal, 2012, 760, 110. | 1.6 | 38 |
| 33 | Studies of an array of PbF2 Cherenkov crystals with large-area SiPM readout. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 783, 12-21. | 0.7 | 36 |
| 34 | Detection of thermal neutrons with the PRISMA-YBJ array in extensive air showers selected by the ARGO-YBJ experiment. Astroparticle Physics, 2016, 81, 49-60. | 1.9 | 36 |
| 35 | Cosmic ray proton plus helium energy spectrum measured by the ARGO-YBJ experiment in the energy range 3–300ÂTeV. Physical Review D, 2015, 91, . | 1.6 | 34 |
| 36 | CRAB NEBULA: FIVE-YEAR OBSERVATION WITH ARGO-YBJ. Astrophysical Journal, 2015, 798, 119. | 1.6 | 33 |

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| 37 | Beam dynamics corrections to the Run-1 measurement of the muon anomalous magnetic moment at Fermilab. Physical Review Accelerators and Beams, 2021, 24, . | 0.6 | 32 |
| 38 | Emission of single and few electrons in XENON1T and limits on light dark matter. Physical Review D, 2022, 106, . | 1.6 | 32 |
| 39 | Energy spectrum of cosmic protons and helium nuclei by a hybrid measurement at 4300 m a.s.l Chinese Physics C, 2014, 38, 045001. | 1.5 | 31 |
| 40 | SEARCH FOR GAMMA RAY BURSTS WITH THE ARGO-YBJ DETECTOR IN SCALER MODE. Astrophysical Journal, 2009, 699, 1281-1287. | 1.6 | 29 |
| 41 | OBSERVATION OF TeV GAMMA RAYS FROM THE UNIDENTIFIED SOURCE HESS J1841–055 WITH THE ARGO-YBJ EXPERIMENT. Astrophysical Journal, 2013, 767, 99. | 1.6 | 25 |
| 42 | The analog Resistive Plate Chamber detector of the ARGO-YBJ experiment. Astroparticle Physics, 2015, 67, 47-61. | 1.9 | 25 |
| 43 | MEAN INTERPLANETARY MAGNETIC FIELD MEASUREMENT USING THE ARGO-YBJ EXPERIMENT. Astrophysical Journal, 2011, 729, 113. | 1.6 | 23 |
| 44 | High-Resolution Synthesizable Digitally-Controlled Delay Lines. IEEE Transactions on Nuclear Science, 2015, 62, 3163-3171. | 1.2 | 23 |
| 45 | First Results on the Scalar WIMP-Pion Coupling, Using the XENON1T Experiment. Physical Review Letters, 2019, 122, 071301. | 2.9 | 23 |
| 46 | The trigger system of the ARGO-YBJ experiment. IEEE Transactions on Nuclear Science, 2004, 51, 1835-1839. | 1.2 | 22 |
| 47 | Measurement of the cosmic ray antiproton/proton flux ratio at TeV energies with the ARGO-YBJ detector. Physical Review D, 2012, 85, . | 1.6 | 22 |
| 48 | Design and performance of SiPM-based readout of <i>PbF</i> ₂ crystals for high-rate, precision timing applications. Journal of Instrumentation, 2017, 12, P01009-P01009. | 0.5 | 22 |
| 49 | Galactic Cosmic-Ray Anisotropy in the Northern Hemisphere from the ARGO-YBJ Experiment during 2008–2012. Astrophysical Journal, 2018, 861, 93. | 1.6 | 22 |
| 50 | \$\$^{222}\$\$RnÂÂemanation measurements for the XENON1T experiment. European Physical Journal C, 2021, 81, 337. | 1.4 | 22 |
| 51 | Highlights from the ARGO-YBJ experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 661, S50-S55. | 0.7 | 20 |
| 52 | ARGO-YBJ constraints on very high energy emission from GRBs. Astroparticle Physics, 2009, 32, 47-52. | 1.9 | 17 |
| 53 | Calibration of the RPC charge readout in the ARGO-YBJ experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2012, 661, S56-S59. | 0.7 | 17 |
| 54 | The Measurement of the Anomalous Magnetic Moment of the Muon at Fermilab. Journal of Physical and Chemical Reference Data, 2015, 44, . | 1.9 | 17 |

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| 55 | The XENON1T data acquisition system. Journal of Instrumentation, 2019, 14, P07016-P07016. | 0.5 | 17 |
| 56 | Electron beam test of key elements of the laser-based calibration system for the muon g - 2 experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2017, 842, 86-91. | 0.7 | 14 |
| 57 | Observation of the thunderstorm-related ground cosmic ray flux variations by ARGO-YBJ. Physical Review D, 2018, 97, . | 1.6 | 14 |
| 58 | The laser-based gain monitoring system of the calorimeters in the Muon gâ^'2 experiment at Fermilab. Journal of Instrumentation, 2019, 14, P11025-P11025. | 0.5 | 14 |
| 59 | gSeaGen: The KM3NeT GENIE-based code for neutrino telescopes. Computer Physics Communications, 2020, 256, 107477. | 3.0 | 14 |
| 60 | Local Station: the data read-out basic unit for the ARGO-YBJ experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 518, 549-553. | 0.7 | 13 |
| 61 | Search for inelastic scattering of WIMP dark matter in XENON1T. Physical Review D, 2021, 103, . | 1.6 | 13 |
| 62 | rest of candidate light distributors for the muon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si0009.gif" overflow="scroll"><mml:mo stretchy="false">(<mml:mi>g</mml:mi><mml:mo>â^'</mml:mo><mml:mn>2</mml:mn><mml:mo)< td=""><td>Tj ETQq0 (</td><td>) 0 rgBT /Over</td></mml:mo)<></mml:mo </mml:math | Tj ETQq0 (|) 0 rgBT /Over |
| | in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, | | |
| 63 | 2015, 788, 43-48. Search for Gamma-Ray Bursts with the ARGO-YBJ Detector in Shower Mode. Astrophysical Journal, 2017, 842, 31. | 1.6 | 12 |
| 64 | SEARCH FOR GeV GAMMA-RAY BURSTS WITH THE ARGO-YBJ DETECTOR: SUMMARY OF EIGHT YEARS OF OBSERVATIONS. Astrophysical Journal, 2014, 794, 82. | 1.6 | 11 |
| 65 | ARGO-YBJ data acquisition system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 568, 847-853. | 0.7 | 10 |
| 66 | Integration of the Analog Readout in the ARGO-YBJ DAQ System. IEEE Transactions on Nuclear Science, 2011, 58, 1838-1844. | 1.2 | 10 |
| 67 | Performance of the Muon gâ^'2 calorimeter and readout systems measured with test beam data. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 945, 162558. | 0.7 | 10 |
| 68 | Search for Gamma-Ray Emission from the Sun during Solar Minimum with the ARGO-YBJ Experiment. Astrophysical Journal, 2019, 872, 143. | 1.6 | 9 |
| 69 | The Status of the ARGO Experiment at YBJ. Nuclear Physics, Section B, Proceedings Supplements, 2007, 166, 96-102. | 0.5 | 8 |
| 70 | Feasibility of measurements of cosmic ray composition by means of RPC digital read out in ARGO-YBJ. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2004, 533, 55-59. | 0.7 | 7 |
| 71 | The calibration system of the new gâ^'2 experiment at Fermilab. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 716-717. | 0.7 | 7 |
| 72 | EAS age determination from the study of the lateral distribution of charged particles near the shower axis with the ARGO-YBJ experiment. Astroparticle Physics, 2017, 93, 46-55. | 1.9 | 7 |

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| 73 | The laser control of the muon gâ^'2 experiment at Fermilab. Journal of Instrumentation, 2018, 13, T02009-T02009. | 0.5 | 7 |
| 74 | The Readout Controller for the Calibration System of the Muon g-2 Experiment. IEEE Transactions on Nuclear Science, 2018, 65, 1033-1039. | 1.2 | 5 |
| 75 | The DAQ System for the ARGO-YBJ experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 572, 376-377. | 0.7 | 4 |
| 76 | Evidence of a geomagnetic effect on extensive air showers detected with the ARGO-YBJ experiment. Physical Review D, 2014, 89, . | 1.6 | 4 |
| 77 | Calibration of the RPC charge readout in the ARGO-YBJ experiment with the iso-gradient method. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 783, 68-75. | 0.7 | 4 |
| 78 | Application and modeling of an online distillation method to reduce krypton and argon in XENON1T. Progress of Theoretical and Experimental Physics, 0, , . | 1.8 | 4 |
| 79 | Sensitivity of ARGO-YBJ to different composition models in the energy range 10 ÷ 500 TeV. Nuclear Physics, Section B, Proceedings Supplements, 2004, 136, 376-383. | 0.5 | 3 |
| 80 | The RPC charge readout system of the ARGO-YBJ experiment. , 2010, , . | | 3 |
| 81 | A time-to-digital converter based on a digitally controlled oscillator. , 2016, , . | | 3 |
| 82 | Geant4 simulations of the lead fluoride calorimeter. Nuclear Instruments & Methods in Physics Research B, 2017, 402, 256-262. | 0.6 | 3 |
| 83 | A Time-to-Digital Converter Based on a Digitally Controlled Oscillator. IEEE Transactions on Nuclear Science, 2017, , 1-1. | 1.2 | 3 |
| 84 | Intrinsic linearity of bakelite Resistive Plate Chambers operated in streamer mode. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 947, 162746. | 0.7 | 3 |
| 85 | The trigger supervisor of the ARGO-YBJ detector. IEEE Transactions on Nuclear Science, 2006, 53, 849-853. | 1.2 | 2 |
| 86 | The Argo YBJ Daq System and the GRID Based Data Transfer. IEEE Transactions on Nuclear Science, 2008, 55, 241-245. | 1.2 | 2 |
| 87 | Stability and calibration of the analog RPC readout in ARGO-YBJ. , 2011, , . | | 2 |
| 88 | Spatial correlations applied to gamma/hadron discrimination in the ARGO-YBJ experiment. Nuclear Physics, Section B, Proceedings Supplements, 2013, 239-240, 250-253. | 0.5 | 2 |
| 89 | A fully-digital and fully synthetizable TDC for high energy physics experiments. , 2016, , . | | 2 |
| 90 | The calorimeter system of the new muon g-2 experiment at Fermilab. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 824, 718-720. | 0.7 | 2 |

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| 91 | Absolute-energy-scale calibration of ARGO-YBJ for light primaries in multi-TeV region with the Moon shadow observation. Astroparticle Physics, 2017, 90, 20-27. | 1.9 | 2 |
| 92 | The Fermilab Muon g-2 experiment: laser calibration system. Journal of Instrumentation, 2017, 12, C08019-C08019. | 0.5 | 2 |
| 93 | The monitoring electronics of the laser calibration system in the Muon g-2 experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 372-373. | 0.7 | 2 |
| 94 | The monitoring system of the ARGO-YBJ data acquisition. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 294-295. | 0.7 | 1 |
| 95 | Early warning for VHE gamma-ray flares with the ARGO-YBJ detector. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 659, 428-433. | 0.7 | 1 |
| 96 | Radon contribution to single particle counts of the ARGO-YBJ detector. Radiation Measurements, 2014, 68, 42-48. | 0.7 | 1 |
| 97 | The Laser Control System for a Calibration Facility of a Light-Based Detector. IEEE Transactions on Nuclear Science, 2017, 64, 1179-1184. | 1.2 | 1 |
| 98 | CALPRO, an unconventional calorimetry approach. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 119-120. | 0.7 | 1 |
| 99 | Design and Performance of Data Acquisition and Control System for the Muon g-2 Laser Calibration. IEEE Transactions on Nuclear Science, 2020, 67, 832-839. | 1.2 | 1 |
| 100 | The trigger supervisor of the ARGO-YBJ detector. , 2005, , . | | 0 |
| 101 | Online software time calibration for a continuous air shower array. , 2012, , . | | Ο |
| 102 | The analog detector of the ARGO-YBJ experiment. , 2013, , . | | 0 |
| 103 | High-resolution synthesizable digitally-controlled delay lines. , 2014, , . | | Ο |
| 104 | Performance of a high-frequency synthesizable digitally-controlled oscillator. , 2014, , . | | 0 |
| 105 | Online Software Time Calibration for a Continuous Air Shower Array. IEEE Transactions on Nuclear Science, 2014, 61, 511-517. | 1.2 | 0 |
| 106 | The laser control system for a calibration facility of light detector. , 2016, , . | | 0 |
| 107 | CALPRO—a unconventional calorimetry project. Journal of Instrumentation, 2019, 14, C10001-C10001. | 0.5 | 0 |
| 108 | Design and performance of data acquisition and control system for the Muon g-2 laser calibration. , 2019, , . | | 0 |

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| 109 | Muon g-2 calibration system data flow. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 335-336. | 0.7 | 0 |
| 110 | The calibration system of the Muon g–2 experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2019, 936, 98-101. | 0.7 | 0 |
| 111 | An approach to light distribution for the calibration of high energy physics calorimeters. Journal of Instrumentation, 2020, 15, P09014-P09014. | 0.5 | 0 |