

Sandra Parlati

List of Publications by Year in descending order

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Version: 2024-02-01

61
papers

9,856
citations

172386

29
h-index

189801

50
g-index

62
all docs

62
docs citations

62
times ranked

10662
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Geant4 developments and applications. IEEE Transactions on Nuclear Science, 2006, 53, 270-278. | 1.2 | 4,869 |
| 2 | Correlation of the Highest-Energy Cosmic Rays with Nearby Extragalactic Objects. Science, 2007, 318, 938-943. | 6.0 | 647 |
| 3 | Observation of the Suppression of the Flux of Cosmic Rays above 4×10^{19} eV. Physical Review Letters, 2008, 101, 061101. | 2.9 | 500 |
| 4 | Measurement of the Depth of Maximum of Extensive Air Showers above 10^{18} eV. Physical Review Letters, 2010, 104, 091101. | 2.9 | 429 |
| 5 | Measurement of the energy spectrum of cosmic rays above 1018 eV using the Pierre Auger Observatory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 685, 239-246. | 1.5 | 357 |
| 6 | Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei. Astroparticle Physics, 2008, 29, 188-204. | 1.9 | 305 |
| 7 | The fluorescence detector of the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 620, 227-251. | 0.7 | 275 |
| 8 | Upper limit on the cosmic-ray photon flux above 1019eV using the surface detector of the Pierre Auger Observatory. Astroparticle Physics, 2008, 29, 243-256. | 1.9 | 161 |
| 9 | Comparison of Geant4 electromagnetic physics models against the NIST reference data. IEEE Transactions on Nuclear Science, 2005, 52, 910-918. | 1.2 | 160 |
| 10 | The XENON1T dark matter experiment. European Physical Journal C, 2017, 77, 1. | 1.4 | 157 |
| 11 | Trigger and aperture of the surface detector array of the Pierre Auger Observatory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 613, 29-39. | 0.7 | 151 |
| 12 | Vertical muon intensity measured with MACRO at the Gran Sasso laboratory. Physical Review D, 1995, 52, 3793-3802. | 1.6 | 149 |
| 13 | Upper Limit on the Diffuse Flux of Ultrahigh Energy Tau Neutrinos from the Pierre Auger Observatory. Physical Review Letters, 2008, 100, 211101. | 2.9 | 141 |
| 14 | First supermodule of the MACRO detector at Gran Sasso. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1993, 324, 337-362. | 0.7 | 137 |
| 15 | Upper limit on the cosmic-ray photon fraction at EeV energies from the Pierre Auger Observatory. Astroparticle Physics, 2009, 31, 399-406. | 1.9 | 117 |
| 16 | Seasonal variations in the underground muon intensity as seen by MACRO. Astroparticle Physics, 1997, 7, 109-124. | 1.9 | 107 |
| 17 | Limit on the diffuse flux of ultrahigh energy tau neutrinos with the surface detector of the Pierre Auger Observatory. Physical Review D, 2009, 79, . | 1.6 | 99 |
| 18 | Geant4 low energy electromagnetic physics. , 0, , . | | 93 |

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|----|--|-----|-----------|
| 19 | An upper limit to the photon fraction in cosmic rays above 1019eV from the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2007, 27, 155-168. | 1.9 | 90 |
| 20 | A goodness-of-fit statistical toolkit. <i>IEEE Transactions on Nuclear Science</i> , 2004, 51, 2056-2063. | 1.2 | 88 |
| 21 | A study of the effect of molecular and aerosol conditions in the atmosphere on air fluorescence measurements at the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2010, 33, 108-129. | 1.9 | 84 |
| 22 | Atmospheric neutrino flux measurement using upgoing muons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 357, 481-486. | 1.5 | 83 |
| 23 | The MACRO detector at Gran Sasso. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2002, 486, 663-707. | 0.7 | 60 |
| 24 | Anisotropy studies around the galactic centre at EeV energies with the Auger Observatory. <i>Astroparticle Physics</i> , 2007, 27, 244-253. | 1.9 | 51 |
| 25 | Geant4 and its validation. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 2006, 150, 44-49. | 0.5 | 46 |
| 26 | Atmospheric effects on extensive air showers observed with the surface detector of the Pierre Auger observatory. <i>Astroparticle Physics</i> , 2009, 32, 89-99. | 1.9 | 43 |
| 27 | Study of the ultrahigh-energy primary-cosmic-ray composition with the MACRO experiment. <i>Physical Review D</i> , 1992, 46, 895-902. | 1.6 | 37 |
| 28 | Calibration of BC501A liquid scintillator cells with monochromatic neutron beams. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998, 418, 285-299. | 0.7 | 36 |
| 29 | Study of the primary cosmic ray composition around the knee of the energy spectrum. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1994, 337, 376-382. | 1.5 | 34 |
| 30 | Search for nuclearites using the MACRO detector. <i>Physical Review Letters</i> , 1992, 69, 1860-1863. | 2.9 | 32 |
| 31 | Measurement of the decoherence function with the MACRO detector at Gran Sasso. <i>Physical Review D</i> , 1992, 46, 4836-4845. | 1.6 | 29 |
| 32 | Search for slowly moving magnetic monopoles with the MACRO detector. <i>Physical Review Letters</i> , 1994, 72, 608-612. | 2.9 | 29 |
| 33 | Muon astronomy with the MACRO detector. <i>Astrophysical Journal</i> , 1993, 412, 301. | 1.6 | 28 |
| 34 | Magnetic monopole search with the MACRO detector at Gran Sasso. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997, 406, 249-255. | 1.5 | 27 |
| 35 | Performance of the MACRO streamer tube system in the search for magnetic monopoles. <i>Astroparticle Physics</i> , 1995, 4, 33-43. | 1.9 | 26 |
| 36 | High energy cosmic ray physics with underground muons in MACRO. II. Primary spectra and composition. <i>Physical Review D</i> , 1997, 56, 1418-1436. | 1.6 | 26 |

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|----|---|-----|-----------|
| 37 | Search for neutrino bursts from collapsing stars with the MACRO detector. <i>Astroparticle Physics</i> , 1992, 1, 11-25. | 1.9 | 25 |
| 38 | The performance of MACRO liquid scintillator in the search for magnetic monopoles with $10\hat{a}^{\wedge}3 < \hat{I}^2 < 1$. <i>Astroparticle Physics</i> , 1997, 6, 113-128. | 1.9 | 18 |
| 39 | High energy cosmic ray physics with underground muons in MACRO. I. Analysis methods and experimental results. <i>Physical Review D</i> , 1997, 56, 1407-1417. | 1.6 | 17 |
| 40 | Real time supernova neutrino burst detection with MACRO. <i>Astroparticle Physics</i> , 1998, 8, 123-133. | 1.9 | 17 |
| 41 | The photomultiplier test facility for the reactor neutrino oscillation experiment CHOOZ and the measurements of 250 8-in. EMI 9356KA B53 photomultipliers. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1996, 372, 207-221. | 0.7 | 14 |
| 42 | Precision validation of Geant4 electromagnetic physics. , 2003, , . | | 12 |
| 43 | Validation of Geant4 electromagnetic physics versus protocol data. , 0, , . | | 11 |
| 44 | The liquid argon TPC for the ICARUS experiment. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1997, 54, 95-104. | 0.5 | 8 |
| 45 | ICARUS. A status report. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1999, 70, 453-457. | 0.5 | 7 |
| 46 | Performance evaluation of a hit finding algorithm for the ICARUS detector. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 1998, 412, 440-453. | 0.7 | 6 |
| 47 | The measurement of the decorrelation function in underground muon pairs as a probe of primary cosmic ray interactions. <i>Astroparticle Physics</i> , 1994, 2, 335-346. | 1.9 | 4 |
| 48 | U-LITE, a Private Cloud Approach for Particle Physics Computing. <i>International Journal of Cloud Applications and Computing</i> , 2019, 9, 1-15. | 1.1 | 4 |
| 49 | Coincident observation of air Œerenkov light by a surface array and muon bundles by a deep underground detector. <i>Physical Review D</i> , 1994, 50, 3046-3058. | 1.6 | 2 |
| 50 | Systematic comparison of electromagnetic physics between Geant4 and EGS4 with respect to protocol data. , 0, , . | | 2 |
| 51 | Accurate GPS-based timestamp facility for Gran Sasso National Laboratory. <i>Journal of Instrumentation</i> , 2019, 14, P04001-P04001. | 0.5 | 2 |
| 52 | Search for neutrinos from the Sun and the Earth with the MACRO detector. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1996, 48, 87-90. | 0.5 | 1 |
| 53 | Performance of the MACRO detector at gran sasso: Moon shadow and seasonal variations. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1998, 61, 180-184. | 0.5 | 1 |
| 54 | Search for stellar gravitational collapse by MACRO: Characteristics and results. <i>Nuclear Physics, Section B, Proceedings Supplements</i> , 1992, 28, 61-64. | 0.5 | 0 |

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|----|---|-----|-----------|
| 55 | Measurement of electromagnetic and TEV muon components of extensive air showers by eas-top and MACRO experiments. Nuclear Physics, Section B, Proceedings Supplements, 1992, 28, 393-396. | 0.5 | 0 |
| 56 | Muon astrophysics with the MACRO detector. Nuclear Physics, Section B, Proceedings Supplements, 1994, 35, 229-234. | 0.5 | 0 |
| 57 | Searches for magnetic monopoles with the MACRO detector at Gran Sasso. Nuclear Physics, Section B, Proceedings Supplements, 1996, 48, 453-459. | 0.5 | 0 |
| 58 | High energy cosmic ray physics with the MACRO experiment at Gran Sasso. Nuclear Physics, Section B, Proceedings Supplements, 1997, 52, 172-175. | 0.5 | 0 |
| 59 | Correction to "A Goodness-of-Fit Statistical Toolkit", IEEE Transactions on Nuclear Science, 2004, 51, 3118-3118. | 1.2 | 0 |
| 60 | INFN towards Cloud Computing. , 2014, , . | | 0 |
| 61 | Electromagnetic data libraries: recent evolutions and new perspectives. Journal of Instrumentation, 2020, 15, C03032-C03032. | 0.5 | 0 |