

Subir Sarkar

List of Publications by Year in descending order

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Version: 2024-02-01

946
papers

99,879
citations

1040

113
h-index

293

292
g-index

984
all docs

984
docs citations

984
times ranked

27581
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|------|-----------|
| 1 | Review of Particle Physics. Chinese Physics C, 2014, 38, 090001. | 1.5 | 5,997 |
| 2 | Review of Particle Physics. Physical Review D, 2018, 98, . | 1.6 | 5,390 |
| 3 | Review of Particle Physics. Physical Review D, 2012, 86, . | 1.6 | 5,054 |
| 4 | Review of Particle Physics. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 075021. | 1.4 | 4,745 |
| 5 | Review of Particle Physics. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 592, 1-5. | 1.5 | 4,599 |
| 6 | Review of Particle Physics. Chinese Physics C, 2016, 40, 100001. | 1.5 | 4,200 |
| 7 | Review of Particle Physics. Journal of Physics G: Nuclear and Particle Physics, 2006, 33, 1-1232. | 1.4 | 3,613 |
| 8 | Review of Particle Physics. Progress of Theoretical and Experimental Physics, 2020, 2020, . | 1.8 | 3,177 |
| 9 | Review of Particle Properties. Physical Review D, 2002, 66, . | 1.6 | 2,845 |
| 10 | Multi-messenger Observations of a Binary Neutron Star Merger [*] . Astrophysical Journal Letters, 2017, 848, L12. | 3.0 | 2,805 |
| 11 | Tests of quantum gravity from observations of $\hat{\Gamma}$ -ray bursts. Nature, 1998, 393, 763-765. | 13.7 | 1,134 |
| 12 | Evidence for High-Energy Extraterrestrial Neutrinos at the IceCube Detector. Science, 2013, 342, 1242856. | 6.0 | 1,048 |
| 13 | Observation of High-Energy Astrophysical Neutrinos in Three Years of IceCube Data. Physical Review Letters, 2014, 113, 101101. | 2.9 | 873 |
| 14 | Multimessenger observations of a flaring blazar coincident with high-energy neutrino IceCube-170922A. Science, 2018, 361, . | 6.0 | 654 |
| 15 | Correlation of the Highest-Energy Cosmic Rays with Nearby Extragalactic Objects. Science, 2007, 318, 938-943. | 6.0 | 647 |
| 16 | Design concepts for the Cherenkov Telescope Array CTA: an advanced facility for ground-based high-energy gamma-ray astronomy. Experimental Astronomy, 2011, 32, 193-316. | 1.6 | 640 |
| 17 | Neutrino emission from the direction of the blazar TXS 0506+056 prior to the IceCube-170922A alert. Science, 2018, 361, 147-151. | 6.0 | 601 |
| 18 | Search for neutral MSSM Higgs bosons at LEP. European Physical Journal C, 2006, 47, 547. | 1.4 | 592 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | First Observation of PeV-Energy Neutrinos with IceCube. <i>Physical Review Letters</i> , 2013, 111, 021103. | 2.9 | 578 |
| 20 | Precise determination of the mass of the Higgs boson and tests of compatibility of its couplings with the standard model predictions using proton collisions at 7 and 8 TeV. <i>European Physical Journal C</i> , 2015, 75, 212. | 1.4 | 541 |
| 21 | Introducing the CTA concept. <i>Astroparticle Physics</i> , 2013, 43, 3-18. | 1.9 | 504 |
| 22 | Observation of the Suppression of the Flux of Cosmic Rays above 10^{19} eV. <i>Physical Review Letters</i> , 2008, 101, 061101. | 2.8 | 500 |
| 23 | Event generator tunes obtained from underlying event and multiparton scattering measurements. <i>European Physical Journal C</i> , 2016, 76, 155. | 1.4 | 499 |
| 24 | Measurement of the Depth of Maximum of Extensive Air Showers above 10^{18} eV. <i>Physical Review Letters</i> , 2010, 104, 091101. | 2.9 | 429 |
| 25 | Big bang nucleosynthesis and physics beyond the standard model. <i>Reports on Progress in Physics</i> , 1996, 59, 1493-1609. | 8.1 | 422 |
| 26 | The IceCube Neutrino Observatory: instrumentation and online systems. <i>Journal of Instrumentation</i> , 2017, 12, P03012-P03012. | 0.5 | 390 |
| 27 | First year performance of the IceCube neutrino telescope. <i>Astroparticle Physics</i> , 2006, 26, 155-173. | 1.9 | 379 |
| 28 | Study of high- p_T charged particle suppression in PbPb compared to pp collisions at $\sqrt{s_{NN}}=2.76$ TeV. <i>European Physical Journal C</i> , 2012, 72, 1. | 1.4 | 369 |
| 29 | The cosmology of decaying gravitinos. <i>Nuclear Physics B</i> , 1985, 259, 175-188. | 0.9 | 361 |
| 30 | Measurement of the energy spectrum of cosmic rays above 1018 eV using the Pierre Auger Observatory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2010, 685, 239-246. | 1.5 | 357 |
| 31 | Combined measurements of Higgs boson couplings in proton-proton collisions at $\sqrt{s}=13$ TeV. <i>European Physical Journal C</i> , 2019, 79, 421. | 1.4 | 355 |
| 32 | Observation of the diphoton decay of the Higgs boson and measurement of its properties. <i>European Physical Journal C</i> , 2014, 74, 3076. | 1.4 | 342 |
| 33 | A COMBINED MAXIMUM-LIKELIHOOD ANALYSIS OF THE HIGH-ENERGY ASTROPHYSICAL NEUTRINO FLUX MEASURED WITH ICECUBE. <i>Astrophysical Journal</i> , 2015, 809, 98. | 1.6 | 337 |
| 34 | OBSERVATION AND CHARACTERIZATION OF A COSMIC MUON NEUTRINO FLUX FROM THE NORTHERN HEMISPHERE USING SIX YEARS OF ICECUBE DATA. <i>Astrophysical Journal</i> , 2016, 833, 3. | 1.6 | 336 |
| 35 | Astrophysical constraints on massive unstable neutral relic particles. <i>Nuclear Physics B</i> , 1992, 373, 399-437. | 0.9 | 328 |
| 36 | Observation of a new boson with mass near 125 GeV in pp collisions at $\sqrt{s}=7$ and 8 TeV. <i>Journal of High Energy Physics</i> , 2013, 2013, 1. | 1.6 | 320 |

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 37 | Search for dark matter, extra dimensions, and unparticles in monojet events in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 235. | 1.4 | 320 |
| 38 | The IceCube data acquisition system: Signal capture, digitization, and timestamping. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2009, 601, 294-316. | 0.7 | 312 |
| 39 | Correlation of the highest-energy cosmic rays with the positions of nearby active galactic nuclei. Astroparticle Physics, 2008, 29, 188-204. | 1.9 | 305 |
| 40 | 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 |
| 41 | An absence of neutrinos associated with cosmic-ray acceleration in $\hat{\nu}$ -ray bursts. Nature, 2012, 484, 351-354. | 13.7 | 272 |
| 42 | Update on the correlation of the highest energy cosmic rays with nearby extragalactic matter. Astroparticle Physics, 2010, 34, 314-326. | 1.9 | 270 |
| 43 | Simplified models for dark matter searches at the LHC. Physics of the Dark Universe, 2015, 9-10, 8-23. | 1.8 | 250 |
| 44 | Evidence for Astrophysical Muon Neutrinos from the Northern Sky with IceCube. Physical Review Letters, 2015, 115, 081102. | 2.9 | 247 |
| 45 | Searches for electroweak production of charginos, neutralinos, and sleptons decaying to leptons and W, Z, and Higgs bosons in pp collisions at 8 TeV. European Physical Journal C, 2014, 74, 3036. | 1.4 | 241 |
| 46 | Search for Dark Matter Annihilations in the Sun with the 79-String IceCube Detector. Physical Review Letters, 2013, 110, 131302. | 2.9 | 235 |
| 47 | Physics with the KLOE-2 experiment at the upgraded DAΦNE. European Physical Journal C, 2010, 68, 619-681. | 1.4 | 222 |
| 48 | The design and performance of IceCube DeepCore. Astroparticle Physics, 2012, 35, 615-624. | 1.9 | 222 |
| 49 | Time-Integrated Neutrino Source Searches with 10 Years of IceCube Data. Physical Review Letters, 2020, 124, 051103. | 2.9 | 221 |
| 50 | Measurement of the Proton-Air Cross Section at $\sqrt{s} = 57$ TeV with the Pierre Auger Observatory. Physical Review Letters, 2012, 109, 062002. | 2.9 | 212 |
| 51 | Calibration and characterization of the IceCube photomultiplier tube. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 618, 139-152. | 0.7 | 211 |
| 52 | Atmospheric and astrophysical neutrinos above 1 TeV interacting in IceCube. Physical Review D, 2015, 91, . | 1.6 | 209 |
| 53 | Suppression of non-prompt J/ψ , prompt J/ψ , and $\Upsilon(1S)$ in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 200 |
| 54 | All-sky Search for Time-integrated Neutrino Emission from Astrophysical Sources with 7 yr of IceCube Data. Astrophysical Journal, 2017, 835, 151. | 1.6 | 198 |

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|----|--|-----|-----------|
| 55 | Extraction and validation of a new set of CMS pythia8 tunes from underlying-event measurements. European Physical Journal C, 2020, 80, 4. | 1.4 | 198 |
| 56 | Measurement of the differential cross section for top quark pair production in pp collisions at $\sqrt{s} = 8, \text{ext } \{\text{TeV}\}$ $s = 8 \text{ TeV}$. European Physical Journal C, 2015, 75, 542. | 1.4 | 191 |
| 57 | THE CONTRIBUTION OF FERMI-2LAC BLAZARS TO DIFFUSE TEV-PEV NEUTRINO FLUX. Astrophysical Journal, 2017, 835, 45. | 1.6 | 186 |
| 58 | GZK neutrinos after the Fermi-LAT diffuse photon flux measurement. Astroparticle Physics, 2010, 34, 106-115. | 1.9 | 184 |
| 59 | Centrality dependence of dihadron correlations and azimuthal anisotropy harmonics in PbPb collisions at $\sqrt{s_{NN}} = 2.76 \text{ mbox}\{\text{TeV}\}$. European Physical Journal C, 2012, 72, 1. | 1.4 | 181 |
| 60 | Search for heavy neutrinos and \mathcal{W} bosons with right-handed couplings in proton-proton collisions at $\sqrt{s} = 8, \text{ext } \{\text{TeV}\}$ $s = 8 \text{ TeV}$. European Physical Journal C, 2014, 74, 3149. | 1.4 | 179 |
| 61 | On the cosmological domain wall problem for the minimally extended supersymmetric standard model. Nuclear Physics B, 1995, 454, 663-681. | 0.9 | 175 |
| 62 | Extremely high energy cosmic rays from relic particle decays. Astroparticle Physics, 1998, 9, 297-309. | 1.9 | 173 |
| 63 | | | |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 73 | Measurement of the inclusive W and Z production cross sections in pp collisions at $\sqrt{s} = 7$ TeV with the CMS experiment. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 158 |
| 74 | Measurement of the atmospheric neutrino energy spectrum from 100 GeV to 400 TeV with IceCube. Physical Review D, 2011, 83, . | 1.6 | 156 |
| 75 | Flavor Ratio of Astrophysical Neutrinos above 35 TeV in IceCube. Physical Review Letters, 2015, 114, 171102. | 2.9 | 156 |
| 76 | Study of the inclusive production of charged pions, kaons, and protons in pp collisions at $\sqrt{s} = 0.9, 2.76, \text{ and } 7\text{-}10$ TeV. European Physical Journal C, 2012, 72, 1. | 1.4 | 154 |
| 77 | 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 |
| 78 | SEARCHES FOR EXTENDED AND POINT-LIKE NEUTRINO SOURCES WITH FOUR YEARS OF ICECUBE DATA. Astrophysical Journal, 2014, 796, 109. | 1.6 | 149 |
| 79 | Search for supersymmetry in hadronic final states with missing transverse energy using the variables \hat{t} and b-quark multiplicity in pp collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2013, 73, 2568. | 1.4 | 147 |
| 80 | Probing the anisotropic local Universe and beyond with SNe Ia data. Monthly Notices of the Royal Astronomical Society, 2011, 414, 264-271. | 1.6 | 144 |
| 81 | The high energy neutrino cross-section in the Standard Model and its uncertainty. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 143 |
| 82 | IceCube high-energy starting event sample: Description and flux characterization with 7.5 years of data. Physical Review D, 2021, 104, . | 1.6 | 142 |
| 83 | 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 |
| 84 | The spin-dependent structure function of the proton $g_1^p(x, Q^2)$ and a test of the Bjorken sum rule. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 690, 466-472. | 1.4 | 141 |
| 85 | Evidence for anisotropy of cosmic acceleration. Astronomy and Astrophysics, 2019, 631, L13. | 2.1 | 141 |
| 86 | Searches for Sterile Neutrinos with the IceCube Detector. Physical Review Letters, 2016, 117, 071801. | 2.9 | 140 |
| 87 | Characteristics of the Diffuse Astrophysical Electron and Tau Neutrino Flux with Six Years of IceCube High Energy Cascade Data. Physical Review Letters, 2020, 125, 121104. | 2.9 | 137 |
| 88 | Dark matter annihilation and decay in dwarf spheroidal galaxies: the classical and ultrafaint dSphs. Monthly Notices of the Royal Astronomical Society, 2015, 453, 849-867. | 1.6 | 136 |
| 89 | A Test of the Cosmological Principle with Quasars. Astrophysical Journal Letters, 2021, 908, L51. | 3.0 | 136 |
| 90 | 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 |

| # | ARTICLE | IF | CITATIONS |
|-----|--|-----|-----------|
| 91 | An alternative to the cosmological Λ concordance model. Astronomy and Astrophysics, 2003, 412, 35-44. | 2.1 | 134 |
| 92 | Limits on a Muon Flux from Neutralino Annihilations in the Sun with the IceCube 22-String Detector. Physical Review Letters, 2009, 102, 201302. | 2.9 | 132 |
| 93 | Differential limit on the extremely-high-energy cosmic neutrino flux in the presence of astrophysical background from nine years of IceCube data. Physical Review D, 2018, 98, . | 1.6 | 131 |
| 94 | Resolving astrophysical uncertainties in dark matter direct detection. Journal of Cosmology and Astroparticle Physics, 2012, 2012, 024-024. | 1.9 | 130 |
| 95 | A search for a doubly-charged Higgs boson in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2012, 72, 1. | 1.4 | 129 |
| 96 | TIME-INTEGRATED SEARCHES FOR POINT-LIKE SOURCES OF NEUTRINOS WITH THE 40-STRING IceCube DETECTOR. Astrophysical Journal, 2011, 732, 18. | 1.6 | 126 |
| 97 | Dark Matter benchmark models for early LHC Run-2 Searches: Report of the ATLAS/CMS Dark Matter Forum. Physics of the Dark Universe, 2020, 27, 100371. | 1.8 | 126 |
| 98 | Measurement of differential top-quark-pair production cross sections in pp collisions at $\sqrt{s} = 7 \text{ TeV}$. European Physical Journal C, 2013, 73, 1. | 1.4 | 125 |
| 99 | SEARCH FOR PROMPT NEUTRINO EMISSION FROM GAMMA-RAY BURSTS WITH ICECUBE. Astrophysical Journal Letters, 2015, 805, L5. | 3.0 | 124 |
| 100 | Evidence for the 125 GeV Higgs boson decaying to a pair of \tilde{l} , leptons. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 123 |
| 101 | Marginal evidence for cosmic acceleration from Type Ia supernovae. Scientific Reports, 2016, 6, 35596. | 1.6 | 123 |
| 102 | Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, 14 \text{ TeV}$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800. | 1.4 | 123 |
| 103 | Measurement of South Pole ice transparency with the IceCube LED calibration system. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 711, 73-89. | 0.7 | 122 |
| 104 | IceCube sensitivity for low-energy neutrinos from nearby supernovae. Astronomy and Astrophysics, 2011, 535, A109. | 2.1 | 121 |
| 105 | CMS tracking performance results from early LHC operation. European Physical Journal C, 2010, 70, 1165-1192. | 1.4 | 120 |
| 106 | The high energy cosmic ray spectrum from relic particle decay. Nuclear Physics B, 2002, 621, 495-520. | 0.9 | 119 |
| 107 | MEASUREMENT OF THE ANISOTROPY OF COSMIC-RAY ARRIVAL DIRECTIONS WITH ICECUBE. Astrophysical Journal Letters, 2010, 718, L194-L198. | 3.0 | 119 |
| 108 | Searches for long-lived charged particles in pp collisions at $\sqrt{s} = 7$ and 8 TeV. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 118 |

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|-----|--|------|-----------|
| 109 | Upper limit on the cosmic-ray photon fraction at EeV energies from the Pierre Auger Observatory. <i>Astroparticle Physics</i> , 2009, 31, 399-406. | 1.9 | 117 |
| 110 | Search for a light charged Higgs boson in top quark decays in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1. | 1.6 | 117 |
| 111 | Remarks on the KARMEN anomaly. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1995, 352, 365-371. | 1.5 | 116 |
| 112 | The IceCube realtime alert system. <i>Astroparticle Physics</i> , 2017, 92, 30-41. | 1.9 | 116 |
| 113 | Extending the Search for Muon Neutrinos Coincident with Gamma-Ray Bursts in IceCube Data. <i>Astrophysical Journal</i> , 2017, 843, 112. | 1.6 | 116 |
| 114 | OBSERVATION OF ANISOTROPY IN THE GALACTIC COSMIC-RAY ARRIVAL DIRECTIONS AT 400 TeV WITH ICECUBE. <i>Astrophysical Journal</i> , 2012, 746, 33. | 1.6 | 115 |
| 115 | Measurement of the cosmic ray energy spectrum with IceTop-73. <i>Physical Review D</i> , 2013, 88, . | 1.6 | 114 |
| 116 | Search for heavy neutrino decays in the BEBC beam dump experiment. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1985, 160, 207-211. | 1.5 | 113 |
| 117 | Measurement of the multi-TeV neutrino interaction cross-section with IceCube using Earth absorption. <i>Nature</i> , 2017, 551, 596-600. | 13.7 | 113 |
| 118 | Observation of a J/ψ PC resonance in Diffractive Dissociation of $190 < \mathit{GeV} < /math>$. <i>Physical Review Letters</i> , 2010, 104, 241803. | 2.9 | 112 |
| 119 | Constraints on Ultrahigh-Energy Cosmic-Ray Sources from a Search for Neutrinos above 10^{10} PeV with IceCube. <i>Physical Review Letters</i> , 2016, 117, 241101. | 2.9 | 111 |
| 120 | Search for annihilating dark matter in the Sun with 3 years of IceCube data. <i>European Physical Journal C</i> , 2017, 77, 1. | 1.4 | 111 |
| 121 | AN ALL-SKY SEARCH FOR THREE FLAVORS OF NEUTRINOS FROM GAMMA-RAY BURSTS WITH THE ICECUBE NEUTRINO OBSERVATORY. <i>Astrophysical Journal</i> , 2016, 824, 115. | 1.6 | 109 |
| 122 | On the interpretation of dark matter self-interactions in Abell 3827. <i>Monthly Notices of the Royal Astronomical Society: Letters</i> , 2015, 452, L54-L58. | 1.2 | 107 |
| 123 | Testing Astrophysical Models for the PAMELA Positron Excess with Cosmic Ray Nuclei. <i>Physical Review Letters</i> , 2009, 103, 081104. | 2.9 | 106 |
| 124 | Cosmic ray acceleration in supernova remnants and the FERMI/PAMELA data. <i>Physical Review D</i> , 2009, 80, . | 1.6 | 104 |
| 125 | OBSERVATION OF ANISOTROPY IN THE ARRIVAL DIRECTIONS OF GALACTIC COSMIC RAYS AT MULTIPLE ANGULAR SCALES WITH IceCube. <i>Astrophysical Journal</i> , 2011, 740, 16. | 1.6 | 103 |
| 126 | Charged-particle nuclear modification factors in PbPb and pPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. <i>Journal of High Energy Physics</i> , 2017, 2017, 1. | 1.6 | 103 |

| # | ARTICLE | IF | CITATIONS |
|-----|---|-----|-----------|
| 127 | LHC and Tevatron bounds on the dark matter direct detection cross-section for vector mediators. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 101 |
| 128 | Measurements of properties of the Higgs boson decaying into the four-lepton final state in pp collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 101 |
| 129 | Thermalisation after inflation. Journal of High Energy Physics, 2000, 2000, 012-012. | 1.6 | 100 |
| 130 | Asymmetric Dark Matter and the Sun. Physical Review Letters, 2010, 105, 011301. | 2.9 | 100 |
| 131 | Search for new physics in the multijet and missing transverse momentum final state in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2014, 2014, 1. | 1.6 | 100 |
| 132 | Cosmological and experimental constraints on the tau neutrino. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1984, 148, 347-354. | 1.5 | 99 |
| 133 | Evading the cosmological domain wall problem. Physical Review D, 1997, 55, 5129-5135. | 1.6 | 99 |
| 134 | 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 |
| 135 | Dependence on pseudorapidity and on centrality of charged hadron production in PbPb collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 99 |
| 136 | Multiple inflation and the WMAP "glitches". Physical Review D, 2004, 70, . | 1.6 | 98 |
| 137 | Search for new phenomena with the $M_{\mathrm{T}2}$ variable in the all-hadronic final state produced in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2017, 77, 710. | 1.4 | 98 |
| 138 | Measurement of the underlying event activity at the LHC with $\sqrt{s} = 7$ TeV and comparison with $\sqrt{s} = 0.9$ TeV. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 97 |
| 139 | Antennas for the detection of radio emission pulses from cosmic-ray induced air showers at the Pierre Auger Observatory. Journal of Instrumentation, 2012, 7, P10011-P10011. | 0.5 | 95 |
| 140 | Search for supersymmetry in hadronic final states using $M_{\mathrm{T}2}$ in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 95 |
| 141 | Constraints on Galactic Neutrino Emission with Seven Years of IceCube Data. Astrophysical Journal, 2017, 849, 67. | 1.6 | 95 |
| 142 | Searches for invisible decays of the Higgs boson in pp collisions at $\sqrt{s} = 7, 8,$ and 13 TeV. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 95 |
| 143 | Fermi Gamma-Ray "Bubbles" from Stochastic Acceleration of Electrons. Physical Review Letters, 2011, 107, 091101. | 2.9 | 94 |
| 144 | IceCube sensitivity for low-energy neutrinos from nearby supernovae (<i>Corrigendum</i>). Astronomy and Astrophysics, 2014, 563, C1. | 2.1 | 94 |

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|-----|---|------|-----------|
| 145 | The physics programme of the MoEDAL experiment at the LHC. International Journal of Modern Physics A, 2014, 29, 1430050. | 0.5 | 93 |
| 146 | Multiyear search for a diffuse flux of muon neutrinos with AMANDA-II. Physical Review D, 2007, 76, . | 1.6 | 92 |
| 147 | Direct detection of dark matter in models with a light $Z\tilde{\nu}^2$. Journal of High Energy Physics, 2011, 2011, 1. | 1.6 | 92 |
| 148 | Search for a Higgs boson in the mass range from 145 to 1000 GeV decaying to a pair of W or Z bosons. Journal of High Energy Physics, 2015, 2015, 1. | 1.6 | 92 |
| 149 | High-energy neutrino follow-up search of gravitational wave event GW150914 with ANTARES and IceCube. Physical Review D, 2016, 93, . | 1.6 | 92 |
| 150 | Big bang nucleosynthesis limit on $N\tilde{\nu}^{1/2}$. Physical Review D, 1999, 59, . | 1.6 | 91 |
| 151 | The impact of heavy nuclei on the cosmogenic neutrino flux. Astroparticle Physics, 2005, 23, 11-17. | 1.9 | 91 |
| 152 | The unbearable lightness of being: CDMS versus XENON. Journal of Cosmology and Astroparticle Physics, 2013, 2013, 023-023. | 1.9 | 91 |
| 153 | An upper limit to the photon fraction in cosmic rays above 1019eV from the Pierre Auger Observatory. Astroparticle Physics, 2007, 27, 155-168. | 1.9 | 90 |
| 154 | The spin structure function $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll">\langle \text{mml:m} \text{mml:msubsup}>\langle \text{mml:m} \text{mml:mrow}>\langle \text{mml:m} \text{mml:mi}>g\langle \text{mml:m} \text{mml:mi}>\langle \text{mml:m} \text{mml:mrow}>\langle \text{mml:m} \text{mml:mrow}>\langle \text{mml:m} \text{mml:mn}>1\langle \text{mml:m} \text{mml:mn}>\langle \text{mml:m} \text{mml:mrow}>\text{mathvariant="normal"}>p\langle \text{mml:m} \text{mml:mi}>\langle \text{mml:m} \text{mml:mrow}>\langle \text{mml:m} \text{mml:msubsup}>\langle \text{mml:m} \text{mml:math}>\text{of the Bjorken sum rule. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 18-28.$ | 1.5 | 89 |
| 155 | Dark matter profiles and annihilation in dwarf spheroidal galaxies: perspectives for present and future $\tilde{\nu}^3$ -ray observatories - I. The classical dwarf spheroidal galaxies. Monthly Notices of the Royal Astronomical Society, 2011, 418, 1526-1556. | 1.6 | 88 |
| 156 | Measurements of differential and double-differential Drell-Yan cross sections in proton-proton collisions at $\sqrt{s} = 8$ TeV. European Physical Journal C, 2015, 75, 147. | 1.4 | 88 |
| 157 | Measurement of Atmospheric Neutrino Oscillations at ~ 56 GeV with IceCube DeepCore. Physical Review Letters, 2018, 120, 071801. | 2.9 | 88 |
| 158 | Search for a diffuse flux of astrophysical muon neutrinos with the IceCube 40-string detector. Physical Review D, 2011, 84, . | 1.6 | 87 |
| 159 | AMS-02 data confront acceleration of cosmic ray secondaries in nearby sources. Physical Review D, 2014, 90, . | 1.6 | 87 |
| 160 | Determining neutrino oscillation parameters from atmospheric muon neutrino disappearance with three years of IceCube DeepCore data. Physical Review D, 2015, 91, . | 1.6 | 86 |
| 161 | Search for high-mass resonances in dilepton final states in proton-proton collisions at $\sqrt{s}=13$ TeV. Journal of High Energy Physics, 2018, 2018, 1. | 1.6 | 86 |
| 162 | Detection of a particle shower at the Glashow resonance with IceCube. Nature, 2021, 591, 220-224. | 13.7 | 86 |

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|-----|--|-----|-----------|
| 163 | Limits on Neutrino Emission from Gamma-Ray Bursts with the 40 String IceCube Detector. <i>Physical Review Letters</i> , 2011, 106, 141101. | 2.9 | 85 |
| 164 | Measurement of jet fragmentation into charged particles in pp and PbPb collisions at $\sqrt{s_{\mathrm{NN}}} = 2.76$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1. | 1.6 | 85 |
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