

Ryugo Hayano

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523
papers

22,823
citations

76
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134
g-index

559
ext. papers

24,468
ext. citations

3.6
avg, IF

5.34
L-index

#	Paper	IF	Citations
523	Formation of dense partonic matter in relativistic nucleus-nucleus collisions at RHIC: Experimental evaluation by the PHENIX Collaboration. <i>Nuclear Physics A</i> , 2005 , 757, 184-283	1.3	2088
522	Zero-and low-field spin relaxation studied by positive muons. <i>Physical Review B</i> , 1979 , 20, 850-859	3.3	667
521	Production and detection of cold antihydrogen atoms. <i>Nature</i> , 2002 , 419, 456-9	50.4	630
520	Identified charged particle spectra and yields in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2004 , 69,	2.7	621
519	Cesium-137 deposition and contamination of Japanese soils due to the Fukushima nuclear accident. <i>Proceedings of the National Academy of Sciences of the United States of America</i> , 2011 , 108, 19530-4	11.5	473
518	Energy Loss and Flow of Heavy Quarks in Au+Au Collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review Letters</i> , 2007 , 98,	7.4	448
517	PHENIX detector overview. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003 , 499, 469-479	1.2	395
516	Enhanced production of direct photons in Au + Au collisions at square root($\sqrt{s_{NN}}$) = 200 GeV and implications for the initial temperature. <i>Physical Review Letters</i> , 2010 , 104, 132301	7.4	274
515	Scaling properties of azimuthal anisotropy in Au+Au and Cu+Cu Collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review Letters</i> , 2007 , 98, 162301	7.4	272
514	Dense-medium modifications to jet-induced hadron pair distributions in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review Letters</i> , 2006 , 97, 052301	7.4	250
513	A new measurement of kaonic hydrogen X-rays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 704, 113-117	4.2	245
512	Detailed measurement of the e^+e^- pair continuum in p+p and Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV and implications for direct photon production. <i>Physical Review C</i> , 2010 , 81,	2.7	237
511	Nuclear modification of electron spectra and implications for heavy quark energy loss in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review Letters</i> , 2006 , 96, 032301	7.4	234
510	Dihadron azimuthal correlations in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2008 , 78,	2.7	228
509	Suppression pattern of neutral pions at high transverse momentum in Au + Au collisions at $\sqrt{s_{NN}}=200$ GeV and constraints on medium transport coefficients. <i>Physical Review Letters</i> , 2008 , 101, 232301	7.4	224
508	High- p_T charged hadron suppression in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2004 , 69,	2.7	224
507	Centrality dependence of charged particle multiplicity in Au-Au collisions at square root of ($\sqrt{s_{NN}}$) = 130 GeV. <i>Physical Review Letters</i> , 2001 , 86, 3500-5	7.4	215

506	Measurements of higher order flow harmonics in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review Letters</i> , 2011 , 107, 252301	7.4	213
505	Discovery of antiproton trapping by long-lived metastable states in liquid helium. <i>Physical Review Letters</i> , 1991 , 67, 1246-1249	7.4	205
504	Confinement of antihydrogen for 1,000 seconds. <i>Nature Physics</i> , 2011 , 7, 558-564	16.2	198
503	Quadrupole anisotropy in dihadron azimuthal correlations in central d+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review Letters</i> , 2013 , 111, 212301	7.4	196
502	Systematic studies of the centrality and sNN dependence of the $dE_T/d\eta$ and $dN_{ch}/d\eta$ in heavy ion collisions at midrapidity. <i>Physical Review C</i> , 2005 , 71,	2.7	193
501	Two-photon laser spectroscopy of antiprotonic helium and the antiproton-to-electron mass ratio. <i>Nature</i> , 2011 , 475, 484-8	50.4	187
500	Heavy-quark production in p + p and energy loss and flow of heavy quarks in Au + Au collisions at $s_{NN}=200$ GeV. <i>Physical Review C</i> , 2011 , 84,	2.7	182
499	Measurement of high-pT single electrons from heavy-flavor decays in p + p collisions at square root of s = 200 GeV. <i>Physical Review Letters</i> , 2006 , 97, 252002	7.4	177
498	Measurement of neutral mesons in p+p collisions at s=200 GeV and scaling properties of hadron production. <i>Physical Review D</i> , 2011 , 83,	4.9	162
497	Observation of direct-photon collective flow in Au + Au collisions at $\sqrt{s_{NN}} = 200$ GeV. <i>Physical Review Letters</i> , 2012 , 109, 122302	7.4	155
496	Antiprotonic helium. <i>Physics Reports</i> , 2002 , 366, 183-329	27.7	155
495	Inclusive cross section and double helicity asymmetry for \bar{D} production in p+p collisions at s=200 GeV: Implications for the polarized gluon distribution in the proton. <i>Physical Review D</i> , 2007 , 76,	4.9	147
494	Identified charged hadron production in p+p collisions at s=200 and 62.4 GeV. <i>Physical Review C</i> , 2011 , 83,	2.7	146
493	J/psi production versus transverse momentum and rapidity in p+p collisions at square root s=200 GeV. <i>Physical Review Letters</i> , 2007 , 98, 232002	7.4	143
492	Bose-Einstein correlations of charged pion pairs in Au + Au collisions at square root sNN = 200 GeV. <i>Physical Review Letters</i> , 2004 , 93, 152302	7.4	143
491	Evidence for a bound state of the He hypernucleus. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1989 , 231, 355-358	4.2	140
490	Hadron properties in the nuclear medium. <i>Reviews of Modern Physics</i> , 2010 , 82, 2949-2990	40.5	138
489	Excitation function of K+ and $\bar{\Lambda}$ production in Au+Au reactions at $2\sqrt{10}$ AGeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 476, 1-8	4.2	136

488	First observation of laser-induced resonant annihilation in metastable antiprotonic helium atoms. <i>Physical Review Letters</i> , 1994 , 72, 1180-1183	7.4	132
487	Centrality Dependence of \bar{D} and $\bar{\Lambda}$ Production at Large Transverse Momentum in sNN=200 GeV d+Au Collisions. <i>Physical Review Letters</i> , 2007 , 98,	7.4	128
486	Determination of the antiproton-to-electron mass ratio by precision laser spectroscopy of pHe+. <i>Physical Review Letters</i> , 2006 , 96, 243401	7.4	127
485	J/ψ suppression at forward rapidity in Au + Au collisions at sNN=200 GeV. <i>Physical Review C</i> , 2011 , 84,	2.7	123
484	Discovery of a strange tribaryon S ₀ (3115) in 4He(stopped K \bar{p}) reaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004 , 597, 263-269	4.2	123
483	Structure and formation of deeply-bound pionic atoms. <i>Nuclear Physics A</i> , 1989 , 501, 653-671	1.3	118
482	Measurement of Long-Range Angular Correlation and Quadrupole Anisotropy of Pions and (Anti)Protons in Central d+Au Collisions at sqrt[s _{NN}]=200 GeV. <i>Physical Review Letters</i> , 2015 , 114, 192301	7.4	114
481	Measurement of direct photon production in p+p collisions at sqrt[s] = 200 GeV. <i>Physical Review Letters</i> , 2007 , 98, 012002	7.4	111
480	J/ψ production and nuclear effects for d + Au and p + p collisions at square root of S(NN) = 200 GeV. <i>Physical Review Letters</i> , 2006 , 96, 012304	7.4	109
479	An excitation function of K \bar{K} and K ⁺ production in Au+Au reactions at the AGS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2000 , 490, 53-60	4.2	107
478	Measurements of Elliptic and Triangular Flow in High-Multiplicity 3He+Au Collisions at sqrt[s(NN)]=200 GeV. <i>Physical Review Letters</i> , 2015 , 115, 142301	7.4	104
477	Sub-ppm laser spectroscopy of antiprotonic helium and a CPT-violation limit on the antiprotonic charge and mass. <i>Physical Review Letters</i> , 2001 , 87, 093401	7.4	102
476	J/ψ production in sqrt s _{NN} =200 GeV Cu+Cu collisions. <i>Physical Review Letters</i> , 2008 , 101, 122301	7.4	97
475	Heavy-Neutrino Search Using K \bar{K} Decay. <i>Physical Review Letters</i> , 1982 , 49, 1305-1309	7.4	97
474	Internal radiocesium contamination of adults and children in Fukushima 7 to 20 months after the Fukushima NPP accident as measured by extensive whole-body-counter surveys. <i>Proceedings of the Japan Academy Series B: Physical and Biological Sciences</i> , 2013 , 89, 157-63	4	95
473	Elliptic flow for phi mesons and (anti)deuterons in Au+Au collisions at square root of sNN=200 GeV. <i>Physical Review Letters</i> , 2007 , 99, 052301	7.4	94
472	Kaonic hydrogen X-ray measurement in SIDDHARTA. <i>Nuclear Physics A</i> , 2012 , 881, 88-97	1.3	93
471	Cold nuclear matter effects on J/ψ yields as a function of rapidity and nuclear geometry in d+A collisions at sqrt[s(NN)]=200 GeV. <i>Physical Review Letters</i> , 2011 , 107, 142301	7.4	92

470	Cold nuclear matter effects on J/ψ production as constrained by deuteron-gold measurements at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2008 , 77,	2.7	90
469	Formation of A=12 Sigma - hypernucleus from K- absorption at rest; Observation of a Sigma - spin-orbit doublet of narrow widths. <i>Physical Review Letters</i> , 1985 , 54, 102-105	7.4	90
468	Zero-Field Spin Relaxation of μ as a Probe of the Spin Dynamics of AuFe and CuMn Spin-Glasses. <i>Physical Review Letters</i> , 1980 , 45, 583-587	7.4	89
467	Production of η mesons at midrapidity in $\sqrt{s_{NN}}=200$ GeV Au+Au collisions at relativistic energies. <i>Physical Review C</i> , 2005 , 72,	2.7	88
466	Search for heavy neutrinos in the beta decay of ^{35}S . Evidence against the 17 keV heavy neutrino. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1985 , 160, 322-324	4.2	88
465	Azimuthal anisotropy of ψ production in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV: path-length dependence of jet quenching and the role of initial geometry. <i>Physical Review Letters</i> , 2010 , 105, 142301	7.4	87
464	Spectra and ratios of identified particles in Au+Au and d+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2013 , 88,	2.7	85
463	Elliptic and hexadecapole flow of charged hadrons in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review Letters</i> , 2010 , 105, 062301	7.4	84
462	Photoproduction of J/ψ and of high mass e^+e^- in ultra-peripheral Au + Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009 , 679, 321-329	4.2	84
461	Antiprotonic helium and CPT invariance. <i>Reports on Progress in Physics</i> , 2007 , 70, 1995-2065	14.4	84
460	New source of dense, cryogenic positron plasmas. <i>Physical Review Letters</i> , 2005 , 95, 025002	7.4	84
459	Quantitative constraints on the transport properties of hot partonic matter from semi-inclusive single high transverse momentum pion suppression in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2008 , 77,	2.7	83
458	Nuclear effects on hadron production in d+Au collisions at $\sqrt{s_{NN}}=200$ GeV revealed by comparison with p+p data. <i>Physical Review C</i> , 2006 , 74,	2.7	83
457	Centrality dependence of low-momentum direct-photon production in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2015 , 91,	2.7	81
456	Detailed study of high-pT neutral pion suppression and azimuthal anisotropy in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2007 , 76,	2.7	81
455	Spatial distribution of cold antihydrogen formation. <i>Physical Review Letters</i> , 2005 , 94, 033403	7.4	81
454	Charged hadron distributions in central and peripheral Si+A collisions at 14.6A GeV/c. <i>Physical Review C</i> , 1994 , 50, 1024-1047	2.7	80
453	Neutral pion production with respect to centrality and reaction plane in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2013 , 87,	2.7	78

452	Evaporative cooling of antiprotons to cryogenic temperatures. <i>Physical Review Letters</i> , 2010 , 105, 013003.4	7.4	78
451	Measurement of particle production in proton-induced reactions at 14.6 GeV/c. <i>Physical Review D</i> , 1992 , 45, 3906-3920	4.9	78
450	Systematic studies of elliptic flow measurements in Au+Au collisions at sNN=200 GeV. <i>Physical Review C</i> , 2009 , 80,	2.7	76
449	Suppression of back-to-back hadron pairs at forward rapidity in d+Au collisions at $\sqrt{s(NN)}$ =200 GeV. <i>Physical Review Letters</i> , 2011 , 107, 172301	7.4	76
448	Measurements at 0 degrees of negatively charged particles and antinuclei produced in collisions of 14.6A GeV/c Si on Al, Cu, and Au targets. <i>Physical Review Letters</i> , 1992 , 69, 2345-2348	7.4	76
447	Jet properties from dihadron correlations in p+p collisions at s=200 GeV. <i>Physical Review D</i> , 2006 , 74,	4.9	74
446	Comparison of p+A and Si+Au collisions at 14.6 GeV/c. <i>Physical Review Letters</i> , 1991 , 66, 1567-1570	7.4	74
445	Nuclear modification of ρ , η , and J/ψ production in d+Au collisions at $\sqrt{s(NN)}$ =200 GeV. <i>Physical Review Letters</i> , 2013 , 111, 202301	7.4	73
444	High transverse momentum ρ meson production in p+p, d+Au, and Au+Au collisions at sNN=200 GeV. <i>Physical Review C</i> , 2007 , 75,	2.7	73
443	Measurement of nonrandom event-by-event fluctuations of average transverse momentum in square root of (sNN)=200 GeV Au+Au and p+p collisions. <i>Physical Review Letters</i> , 2004 , 93, 092301	7.4	73
442	Inclusive cross section and double helicity asymmetry for ρ production in p+p collisions at s=62.4 GeV. <i>Physical Review D</i> , 2009 , 79,	4.9	72
441	Dilepton mass spectra in . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009 , 670, 313-320	4.2	72
440	Kaonic helium-4 X-ray measurement in SIDDHARTA. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2009 , 681, 310-314	4.2	72
439	Measurement of direct photons in Au+Au collisions at $\sqrt{s(NN)}$ =200 GeV. <i>Physical Review Letters</i> , 2012 , 109, 152302	7.4	72
438	Precision measurement of the 3d->2p x-ray energy in kaonic 4He. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2007 , 653, 387-391	4.2	71
437	Antimatter plasmas in a multipole trap for antihydrogen. <i>Physical Review Letters</i> , 2007 , 98, 023402	7.4	70
436	High rate production of antihydrogen. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004 , 578, 23-32	4.2	70
435	Cold-nuclear-matter effects on heavy-quark production in d+Au collisions at $\sqrt{s(NN)}$ =200 GeV. <i>Physical Review Letters</i> , 2012 , 109, 242301	7.4	68

434	Centrality dependence of the high p_T charged hadron suppression in Au+Au collisions at $\sqrt{s_{NN}}=130$ GeV. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2003 , 561, 82-92	4.2	66
433	Measurement of bottom versus charm as a function of transverse momentum with electron-hadron correlations in $p + p$ collisions at square root of $s = 200$ GeV. <i>Physical Review Letters</i> , 2009 , 103, 082002	7.4	64
432	Publisher's Note: Systematic studies of the centrality and $\sqrt{s_{NN}}$ dependence of the $dET/d\eta$ and $dN_{ch}/d\eta$ in heavy ion collisions at midrapidity [Phys. Rev. C 71, 034908 (2005)]. <i>Physical Review C</i> , 2005 , 71,	2.7	64
431	Formation of Λ mesic nuclei using the recoilless (d,3He) reaction. <i>European Physical Journal A</i> , 1999 , 6, 99-105	2.5	63
430	Ground and excited state charmonium production in $p+p$ collisions at $\sqrt{s}=200$ GeV. <i>Physical Review D</i> , 2012 , 85,	4.9	62
429	Buffer-gas cooling of antiprotonic helium to 1.5 to 1.7 K, and antiproton-to-electron mass ratio. <i>Science</i> , 2016 , 354, 610-614	33.3	61
428	Transverse-energy distributions at midrapidity in $p+p$, $d+Au$, and $Au+Au$ collisions at $\sqrt{s_{NN}}=62.4$ to 200 GeV and implications for particle-production models. <i>Physical Review C</i> , 2014 , 89,	2.7	61
427	Onset of $\pi(0)$ suppression studied in $Cu+Cu$ collisions at $\sqrt{s_{NN}}=22.4, 62.4,$ and 200 GeV. <i>Physical Review Letters</i> , 2008 , 101, 162301	7.4	61
426	The ATHENA antihydrogen apparatus. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2004 , 518, 679-711	1.2	61
425	Analog Cherenkov detectors used in laser spectroscopy experiments on antiprotonic helium. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003 , 496, 102-122	1.2	61
424	Trapping of negative kaons by metastable states during the atomic cascade in liquid helium. <i>Physical Review Letters</i> , 1989 , 63, 1590-1592	7.4	61
423	Transverse energy production and charged-particle multiplicity at midrapidity in various systems from $\sqrt{s_{NN}}=7.7$ to 200 GeV. <i>Physical Review C</i> , 2016 , 93,	2.7	60
422	Gluon-spin contribution to the proton spin from the double-helicity asymmetry in inclusive $\pi(0)$ production in polarized $p+p$ collisions at $[\sqrt{s}]=200$ GeV. <i>Physical Review Letters</i> , 2009 , 103, 012003	7.4	58
421	Nuclear modification factors of η mesons in $d+Au$, $Cu+Cu$, and $Au+Au$ collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2011 , 83,	2.7	58
420	Deviation from quark number scaling of the anisotropy parameter v_2 of pions, kaons, and protons in $Au+Au$ collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2012 , 85,	2.7	58
419	Measurement of single electron event anisotropy in $Au+Au$ collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2005 , 72,	2.7	58
418	Photon-hadron jet correlations in $p+p$ and $Au+Au$ collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2009 , 80,	2.7	57
417	Jet structure of baryon excess in $Au+Au$ collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2005 , 71,	2.7	57

4 ¹⁶	Measurement of higher cumulants of net-charge multiplicity distributions in Au+Au collisions at $\sqrt{s_{NN}}=7.7\text{--}200\text{ GeV}$. <i>Physical Review C</i> , 2016 , 93,	2.7	56
4 ¹⁵	Transition in yield and azimuthal shape modification in dihadron correlations in relativistic heavy ion collisions. <i>Physical Review Letters</i> , 2010 , 104, 252301	7.4	56
4 ¹⁴	Transverse momentum dependence of J/ψ polarization at midrapidity in p+p collisions at $\sqrt{s}=200\text{ GeV}$. <i>Physical Review D</i> , 2010 , 82,	4.9	56
4 ¹³	Charged hadron multiplicity fluctuations in Au+Au and Cu+Cu collisions from $\sqrt{s_{NN}}=22.5\text{ to }200\text{ GeV}$. <i>Physical Review C</i> , 2008 , 78,	2.7	56
4 ¹²	Antihydrogen production temperature dependence. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2004 , 583, 59-67	4.2	56
4 ¹¹	Laser studies of the decay chain of metastable antiprotonic helium atoms. <i>Physical Review Letters</i> , 1994 , 73, 1485-1488	7.4	56
4 ¹⁰	Transverse-momentum dependence of the J/ψ nuclear modification in d+Au collisions at $\sqrt{s_{NN}}=200\text{ GeV}$. <i>Physical Review C</i> , 2013 , 87,	2.7	55
4 ⁰⁹	Transverse momentum and centrality dependence of dihadron correlations in Au+Au collisions at $\sqrt{s_{NN}}=200\text{ GeV}$: Jet quenching and the response of partonic matter. <i>Physical Review C</i> , 2008 , 77,	2.7	54
4 ⁰⁸	System size and energy dependence of jet-induced hadron pair correlation shapes in Cu+Cu and Au+Au collisions at square root $\sqrt{s_{NN}}=200\text{ and }62.4\text{ GeV}$. <i>Physical Review Letters</i> , 2007 , 98, 232302	7.4	53
4 ⁰⁷	A magnetic trap for antihydrogen confinement. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2006 , 566, 746-756 ^{1,2}		53
4 ⁰⁶	Phase and density dependence of the delayed annihilation of metastable antiprotonic helium atoms in gas, liquid, and solid helium. <i>Physical Review A</i> , 1995 , 51, 2870-2880	2.6	52
4 ⁰⁵	Cross section and parity-violating spin asymmetries of W^- boson production in polarized p + p collisions at $\sqrt{s}=500\text{ GeV}$. <i>Physical Review Letters</i> , 2011 , 106, 062001	7.4	51
4 ⁰⁴	Effective pion mass in the nuclear medium deduced from deeply bound pionic states in ^{207}Pb . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1998 , 418, 246-251	4.2	51
4 ⁰³	Laser-induced resonant transition at 470.724 nm in the $\nu=n-l-1=2$ cascade of metastable antiprotonic helium atoms. <i>Physical Review A</i> , 1995 , 52, 4266-4269	2.6	51
4 ⁰²	High- p_T D production with respect to the reaction plane in Au+Au collisions at $\sqrt{s_{NN}}=200\text{ GeV}$. <i>Physical Review C</i> , 2009 , 80,	2.7	50
4 ⁰¹	Jet structure from dihadron correlations in d+Au collisions at $\sqrt{s_{NN}}=200\text{ GeV}$. <i>Physical Review C</i> , 2006 , 73,	2.7	50
4 ⁰⁰	Double helicity asymmetry in inclusive midrapidity π^0 production for polarized p+p collisions at square root $s = 200\text{ GeV}$. <i>Physical Review Letters</i> , 2004 , 93, 202002	7.4	49
399	Observation of the $T(T_{II}c)$ Divergence of the μ Spin-Lattice Relaxation Rate in MnSi near T_c . <i>Physical Review Letters</i> , 1978 , 41, 1743-1746	7.4	49

398	PHENIX central arm particle ID detectors. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003 , 499, 508-520	1.2	48
397	Coulomb-assisted hybrid bound states of π in medium nuclei populated by K^{\pm} absorption at rest. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1988 , 207, 393-396	4.2	48
396	Hyperfine field and diffusion of μ in Fe single crystals. <i>Solid State Communications</i> , 1977 , 22, 235-239	1.6	48
395	Centrality categorization for $Rp(d)+A$ in high-energy collisions. <i>Physical Review C</i> , 2014 , 90,	2.7	47
394	Limited internal radiation exposure associated with resettlements to a radiation-contaminated homeland after the Fukushima Daiichi nuclear disaster. <i>PLoS ONE</i> , 2013 , 8, e81909	3.7	47
393	First measurement of kaonic helium-3 X-rays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2011 , 697, 199-202	4.2	47
392	Mesonic and non-mesonic decay widths of \bar{K}^0 H and \bar{K}^0 He. <i>Nuclear Physics A</i> , 1998 , 639, 251c-260c	1.3	47
391	Complete nondestructive diagnostic of nonneutral plasmas based on the detection of electrostatic modes. <i>Physics of Plasmas</i> , 2003 , 10, 3056-3064	2.1	47
390	A search for deeply bound kaonic nuclear states. <i>Nuclear Physics A</i> , 2005 , 754, 375-382	1.3	47
389	Search for a Neutral Boson in a Two-Body Decay of $K^{*0} \rightarrow \pi^0 X^0$. <i>Physical Review Letters</i> , 1984 , 52, 1089-1091	7.4	46
388	Search for strange tribaryon states in the inclusive $4\text{He}(\pi^+)$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2008 , 659, 107-112	4.2	45
387	Single electrons from heavy-flavor decays in collisions at. <i>Physical Review Letters</i> , 2006 , 96, 032001	7.4	45
386	Compression of antiproton clouds for antihydrogen trapping. <i>Physical Review Letters</i> , 2008 , 100, 203401	7.4	45
385	Azimuthally anisotropic emission of low-momentum direct photons in Au + Au collisions at $\sqrt{s_{NN}}=200$ GeV. <i>Physical Review C</i> , 2016 , 94,	2.7	44
384	The ALPHA antihydrogen trapping apparatus. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2014 , 735, 319-340	1.2	44
383	Hyperfine structure of the metastable $p\text{He}^+$ atomcule revealed by a laser-induced $(n, l) = (37, 35) \rightarrow (38, 34)$ transition. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 1997 , 404, 15-19	4.2	44
382	Measurement of identified and inclusive photon second-harmonic parameter and implications for direct photon production in [FORMULA: SEE TEXT] Au+Au. <i>Physical Review Letters</i> , 2006 , 96, 032302	7.4	44
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