

# James Ritman

## List of Publications by Year in descending order

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207  
papers

4,420  
citations

109321

35  
h-index

128289

60  
g-index

210  
all docs

210  
docs citations

210  
times ranked

2961  
citing authors

#	ARTICLE	IF	CITATIONS
1	The high-acceptance dielectron spectrometer HADES. European Physical Journal A, 2009, 41, 243-277.	2.5	271
2	Abashian-Booth-Crowe Effect in Basic Double-Pionic Fusion: A New Resonance?. Physical Review Letters, 2011, 106, 242302.	7.8	210
3	Indication of a Deeply Bound and Compact $\pi\pi$ State Formed in the $K^+K^-$ System at 2.85 AGeV. Physical Review Letters, 2010, 104, 132502.	7.8	161
4	Central collisions of Au on Au at 150, 250 and 400 A MeV. Nuclear Physics A, 1997, 612, 493-556.	1.5	154
5	Evidence for a New Resonance from Polarized Neutron-Proton Scattering. Physical Review Letters, 2014, 112, .	7.8	150
6	First observation of the Coulomb-excited double giant dipole resonance in Pb208 via double- $\gamma$ decay. Physical Review Letters, 1993, 70, 533-536.	7.8	127
7	Isospin Tracing: A Probe of Nonequilibrium in Central Heavy-Ion Collisions. Physical Review Letters, 2000, 84, 1120-1123.	7.8	126
8	Dielectron Production in C12+C12 Collisions at 2 A GeV with the HADES Spectrometer. Physical Review Letters, 2007, 98, 052302.	7.8	115
9	Isospin decomposition of the basic double-pionic fusion in the region of the ABC effect. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 721, 229-236.	4.1	114
10	Search for a dark photon in the $\pi^+\pi^-$ decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 187-193.	4.1	105
11	$\eta$ and $\omega$ meson production in preactions at $\sqrt{s} = 3.67$ A GeV/c. Physical Review C, 2001, 63, .	2.9	92
12	Measurement of the $\pi^+\pi^-$ invariant mass spectrum in Au+Au collisions at 1.76 A GeV. Physical Review Letters, 2005, 95, 022301.	4.1	82
13	Technical design report for the ANDA (AntiProton Annihilations at Darmstadt) Straw Tube Tracker. European Physical Journal A, 2013, 49, 1.	2.5	71
14	Azimuthal asymmetry of neutral pion emission in Au+Au reactions at 1 GeV/nucleon. Physical Review Letters, 1993, 71, 835-838.	7.8	70
15	K+ production in the reaction $^{58}\text{Ni}+^{58}\text{Ni}$ at incident energies from 1 to 2 A GeV. Nuclear Physics A, 1997, 625, 307-324.	1.5	67
16	Stopping and radial flow in central $^{58}\text{Ni}+^{58}\text{Ni}$ collisions between 1 A and 2 A GeV. Physical Review C, 1998, 57, 244-253.	2.9	67
17	Measurement of the $\pi^+\pi^-$ invariant mass spectrum in Au+Au collisions at 1.76 A GeV in search for the recently observed $\omega(2380)$ resonance. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 325-332.	4.1	63
18	Measurement of the $\pi^+\pi^-$ invariant mass spectrum in Au+Au collisions at 1.76 A GeV in search for the recently observed resonance structure in $\pi^+\pi^-$ . Physical Review C, 2013, 88, .	2.9	62

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19	The FOPI Detector at SIS/GSI. Nuclear Physics, Section B, Proceedings Supplements, 1995, 44, 708-715.	0.4	59
20	How to Reach a Thousand-Second in-Plane Polarization Lifetime with $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \langle \text{mml:mrow} \langle \text{mml:mn} \rangle 0.97 \langle \text{mml:mn} \rangle \langle \text{mml:mtext} \rangle \hat{a} \text{mml:mtext} \rangle \langle \text{mml:mi} \rangle \text{GeV} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle / \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle 4 \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle \text{in a Storage Ring. Physical Review Letters, 2016, 117, 054801.$	7.8	57
21	Neutron-proton scattering in the context of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle d \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle * \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle 4 \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle$ resonance. Physical Review C, 2014, 90, .	2.9	54
22	New Method for a Continuous Determination of the Spin Tune in Storage Rings and Implications for Precision Experiments. Physical Review Letters, 2015, 115, 094801.	7.8	53
23	Mass dependence of $\hat{\pi}^0$ -production in heavy ion collisions at 1 A GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1994, 321, 20-25.	4.1	50
24	Transverse momentum distributions of $\hat{\pi}$ mesons in near-threshold relativistic heavy ion reactions. Physical Review Letters, 1994, 72, 977-980.	7.8	49
25	Production of $\hat{\pi}^+$ and $\hat{\pi}^0$ Mesons in Near-Threshold pp Reactions. Physical Review Letters, 1998, 81, 4572-4575.	7.8	46
26	Search for $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle \hat{\Lambda} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ -mesic nuclei in a recoil-free transfer reaction. Physical Review C, 2009, 79, .	2.9	43
27	Production of $\Lambda$ and $\Sigma^0_{\{0}_{\{}}$ hyperons in proton-proton collisions. European Physical Journal A, 2010, 46, 27-44.	2.5	41
28	Search for $\hat{\Lambda}$ -mesic $^4\text{He}$ with the WASA-at-COSY detector. Physical Review C, 2013, 87, .	2.9	40
29	Spin Transfer in Exclusive $\hat{\Lambda}$ Production from $p\hat{\pi}^+p$ Collisions at 3.67 GeV/c. Physical Review Letters, 1999, 83, 1534-1537.	7.8	39
30	Onset of nuclear matter expansion in Au+Au collisions. Nuclear Physics A, 1997, 624, 755-772.	1.5	38
31	Determination of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{display="inline"} \langle \text{mml:mrow} \langle \text{mml:msup} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{\Lambda} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \hat{\Lambda}^2 \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle 4 \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle$ Scattering Length in Free Space. Physical Review Letters, 2014, 113, 062004.	4.1	38
32	PANDA Phase One. European Physical Journal A, 2021, 57, 1.	2.5	38
33	Production of $\hat{\Lambda}$ mesons in the $pp\hat{\pi}^+pp\hat{\pi}^+$ reaction at 3.67 GeV/c. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2000, 491, 29-35.	4.1	36
34	Two-pion production in proton-proton collisions with a polarized beam. European Physical Journal A, 2008, 37, 267.	2.5	36
35	Production of $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{altimg="si1.gif"} \text{overflow="scroll"} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{a} \text{mml:mo} \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ -resonances on hyperon production in the channel $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{altimg="si2.gif"} \text{overflow="scroll"} \rangle \langle \text{mml:mi} \text{mathvariant="italic"} \rangle pp \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\Lambda} \text{mml:mo} \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle K \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle$ at 2.95, 3.20 and 3.30 GeV/c beam momentum. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 635, 23-29.	4.1	36
36	Kaon pair production close to threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 635, 23-29.	4.1	34

#	ARTICLE	IF	CITATIONS
37	Threshold hyperon production in proton-proton collisions at COSY-11. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 643, 251-256. Exclusive measurement of the $\Lambda(1520)$ resonance in the reaction $p + p \rightarrow p + \Lambda(1520) + p$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 643, 251-256.	4.1	34
38	Measurement of the $\Lambda(1520)$ resonance in the reaction $p + p \rightarrow p + \Lambda(1520) + p$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 643, 251-256.	4.1	34
39	High-resolution study of the $\Lambda(1520)$ final-state interaction in the reaction $p + p \rightarrow p + \Lambda(1520) + p$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 643, 251-256.	1.5	33
40	Measurement of the $\Lambda(1520)$ resonance in the reaction $p + p \rightarrow p + \Lambda(1520) + p$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 643, 251-256.	4.1	32
41	Measurement of the $\Lambda(1520)$ resonance in the reaction $p + p \rightarrow p + \Lambda(1520) + p$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 677, 24-29.	4.1	31
42	Feasibility studies of time-like proton electromagnetic form factors at FAIR. European Physical Journal A, 2016, 52, 1.	2.5	31
43	Abashian-Booth-Crowe resonance structure in the double pionic fusion to $^4\text{He}$ . Physical Review C, 2012, 86, .	2.9	30
44	ABC effect and resonance structure in the double-pionic fusion to $^4\text{He}$ . Physical Review C, 2015, 91, .	2.9	30
45	$K^0_S$ meson production in the proton-proton reaction at 3.67 GeV/c. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 468, 7-12. Improved study of a possible $\Lambda(1520)$ resonance in the reaction $p + p \rightarrow p + \Lambda(1520) + p$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 643, 251-256.	4.1	29
46	Experimental access to Transition Distribution Amplitudes with the $\Lambda(1520)$ , ANDA experiment at FAIR. European Physical Journal A, 2015, 51, 1.	4.1	29
47	Experimental access to Transition Distribution Amplitudes with the $\Lambda(1520)$ , ANDA experiment at FAIR. European Physical Journal A, 2015, 51, 1.	2.5	29
48	Precision resonance energy scans with the PANDA experiment at FAIR. European Physical Journal A, 2019, 55, 1.	2.5	27
49	Electron-beam energy reconstruction for neutrino oscillation measurements. Nature, 2021, 599, 565-570.	27.8	27
50	Neutral meson production in relativistic heavy ion collisions. Zeitschrift für Physik A, 1991, 340, 297-302.	0.9	24
51	Resonances in QCD. Nuclear Physics A, 2016, 948, 93-105.	1.5	24
52	Isoscalar single-pion production in the region of Roper and $d_{13}$ (2380) resonances. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 599-607.	4.1	24
53	DISTO: a large acceptance multiparticle spectrometer for $\sqrt{s} = 3\text{GeV}$ proton beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 426, 385-404.	1.6	23
54	Exclusive $\Lambda$ -production in proton-proton reactions. Physical Review C, 2004, 69, .	2.9	23

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55	Cross section and tensor analysing power of the reaction near threshold. Nuclear Physics A, 2009, 821, 193-209.	1.5	23
56	DISTO data on. Nuclear Physics A, 2010, 835, 43-50.	1.5	23
57	Measurement of the $\pi^0$ plot distribution. Physical Review C, 2014, 90, .	2.9	23
58	Probing of in-medium hadron structure with HADES. Nuclear Physics A, 2005, 749, 150-159.	1.5	22
59	Mechanism of Near-Threshold Production of the $\eta$ -Meson. Physical Review Letters, 2007, 98, 122003.	7.8	22
60	Study of doubly strange systems using stored antiprotons. Nuclear Physics A, 2016, 954, 323-340.	1.5	22
61	Formation of the $S = -1$ resonance $\chi(2265)$ in the reaction $pp \rightarrow X+K^+$ at 2.50 and 2.85 GeV. European Physical Journal A, 2012, 48, 1.	2.5	21
62	Measurement of the $\pi^0$ reaction with polarized beam in the region of the $d^*(2380)$ resonance. European Physical Journal A, 2016, 52, 1.	2.5	21
63	Near-threshold production of the $\eta$ -meson via the $pn \rightarrow pn\eta$ -reaction. Physical Review C, 2009, 79, .	2.9	20
64	First exclusive measurements of the $K^* \pi^0$ pp state populated in the $pp \rightarrow K^* \pi^0 p$ reaction at 2.85 GeV. Hyperfine Interactions, 2009, 193, 181-187.	0.5	20
65	Cross sections of the $p \rightarrow p \pi^+ \pi^0 K^+$ reaction close to threshold. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 692, 10-14.	4.1	20
66	Final-state interactions in the process $pp \rightarrow pK^+ + \Lambda$ . European Physical Journal A, 2013, 49, 1.	2.5	20
67	On the production of $\pi^+ \pi^-$ pairs in pp collisions at 0.8 GeV. European Physical Journal A, 2009, 42, 159.	2.5	19
68	On the $\Lambda N$ cusp in the $pp \rightarrow pK^+ \Lambda$ reaction. European Physical Journal A, 2013, 49, 1.	2.5	18
69	Comparison of isoscalar vector meson production cross sections in proton-proton collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 647, 351-357.	4.1	17
70	Study of the $\Lambda p$ interaction close to the and thresholds. Nuclear Physics A, 2013, 901, 65-88.	1.5	17
71	Exclusive photoproduction of $\pi^0$ up to large values of Mandelstam variables $s, t, u$ with CLAS.	2.1	17
72	A method to disentangle single- and multi-meson production in missing mass spectra from quasi-free $pp \rightarrow pn X$ reactions. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 629-642.	3.6	16

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73	Azimuthal anisotropies as stringent test for nuclear transport models. Nuclear Physics A, 1997, 627, 522-542.	1.5	15
74	Measurement of the invariant mass distributions for the reaction at excess energy of. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 684, 11-16.	4.1	15
75	Isotensor Dibaryon in the $pp \rightarrow p\pi^0$ Reaction?. Physical Review Letters, 2018, 121, 052001.	7.8	15
76	A highly selective dilepton trigger based on ring recognition. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 502, 270-274.	1.6	13
77	Study of spectator tagging in the reaction $np \rightarrow p\pi^0$ with a deuteron beam. European Physical Journal A, 2006, 29, 353-361.	2.5	13
78	Generalized Dalitz plot analysis of the near-threshold $pp \rightarrow p\pi^0$ in view of the $pp \rightarrow p\pi^0 K^+$ reaction. Physical Review C, 2009, 80, .	2.9	13
79	SEARCH FOR THE ${}^3\text{He} - \bar{\Lambda}$ BOUND STATE AT COSY-11. International Journal of Modern Physics A, 2009, 24, 576-580.	1.5	13
80	Measurement of the ${}^3\text{He} - \bar{\Lambda}$ Dalitz plot distribution. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 418-425.	4.1	13
81	The 2nd level trigger system of the HADES detector. IEEE Transactions on Nuclear Science, 2000, 47, 376-380.	2.0	12
82	$\bar{\Lambda}$ Meson Production in the $pp \rightarrow p\pi^0 \bar{\Lambda}$ Reaction at $3.67 \text{ GeV}/c$ . Physical Review Letters, 2002, 89, 092001.	2.0	12
83	Performance of the HADES ring recognition hardware. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 502, 261-265.	1.6	12
84	Study of $e^+e^- \rightarrow \pi^0$ production in elementary and nuclear collisions near the production threshold with HADES. Progress in Particle and Nuclear Physics, 2004, 53, 49-58.	14.4	12
85	The $pK^0$ final state in proton-proton collisions. European Physical Journal A, 2012, 48, 1.	2.5	12
86	Cross section ratio and angular distributions of the reaction $p + d \rightarrow {}^3\text{He} + \bar{\Lambda}$ at 48.8 MeV and 59.8 MeV excess energy. European Physical Journal A, 2014, 50, 1.	2.5	12
87	Search for an isospin $I = 3$ dibaryon. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 762, 455-461.	4.1	12
88	Measurements of branching ratios for $\bar{\Lambda}$ decays into charged particles. Physical Review C, 2016, 94, .	2.9	12
89	High-precision measurement of the associated strangeness production in proton-proton interactions. European Physical Journal A, 2016, 52, 1.	2.5	12
90	Determination of $N^*$ amplitudes from associated strangeness production in p+p collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 785, 574-580.	4.1	12

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91	Production and electromagnetic decay of hyperons: a feasibility study with HADES as a phase-0 experiment at FAIR. European Physical Journal A, 2021, 57, 1.	2.5	12
92	First Observation of the Coulomb-Excited Double Giant Dipole Resonance in Pb208 via Double- $\hat{1}^3$ Decay. Physical Review Letters, 1993, 70, 2659-2659.	7.8	11
93	Ring recognition in the HADES second-level trigger. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1999, 433, 268-273.	1.6	11
94	COSY-11: an Experimental Facility for Studying Meson Production in Free and Quasi-free Nucleon-Nucleon Collisions. AIP Conference Proceedings, 2005, , .	0.4	11
95	A large acceptance scintillator detector with wavelength shifting fibre readout for search of $\pi$ -nucleus bound states. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 198-206.	1.6	11
96	A threshold Cherenkov detector for separation using silica aerogel. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2008, 596, 311-316.	1.6	11
97	Systematic study of the $pp \rightarrow pp \pi^0$ reaction. European Physical Journal A, 2010, 44, 7-22.	2.5	11
98	Determination of the Total Width of the $\hat{1}^3$ Meson. Physical Review Letters, 2010, 105, 122001.	7.8	10
99	Determination of the spin-triplet scattering length from the final state interaction in the $\pi$ -nucleon scattering. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 198-206.	2.9	10
100	Total and differential cross sections of $\hat{1}^3$ -production in proton-deuteron fusion for excess energies between $Q = 13$ MeV and $Q = 81$ MeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 297-304.	4.1	10
101	Invariant-mass distributions for the $pp \rightarrow pp \pi^0$ reaction at $Q = 10$ MeV. European Physical Journal A, 2010, 43, 131-136.	2.5	9
102	Experimental study of the $p + \text{Li} \rightarrow \text{He} + \text{B}$ reaction 11.3 MeV above threshold. Physical Review C, 2010, 82, .	2.9	9
103	Charge symmetry breaking in $d + \text{He} \rightarrow \text{He} + \text{He}$ with WASA-at-COSY. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 739, 44-49.	4.1	9
104	Pressure stabilized straw tube modules for the PANDA Forward Tracker. Journal of Instrumentation, 2018, 13, P06009-P06009.	1.2	9
105	Two-proton correlation function for the $pp \rightarrow p + \hat{1}^3$ and $pp \rightarrow p + \pi^0$ reactions. Journal of Physics G: Nuclear and Particle Physics, 2010, 37, 055003.	3.6	8
106	Design of the forward straw tube tracker for the PANDA experiment. Journal of Instrumentation, 2017, 12, C06032-C06032.	1.2	8
107	Search for the $\pi$ -mesic $^3\text{He}$ with the WASA-at-COSY facility in the $pp \rightarrow p + \hat{1}^3$ reaction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 198-206.	2.9	8
108	Search for the $\pi$ -mesic $^3\text{He}$ with the WASA-at-COSY facility in the $pp \rightarrow p + \hat{1}^3$ reaction. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 578, 198-206.	4.1	8

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109	$\bar{\Lambda}$ AND $\bar{\Lambda}^*$ MESONS PRODUCTION AT COSY-11. International Journal of Modern Physics A, 2007, 22, 305-316.	1.5	7
110	Application of the time-dependent charge asymmetry method for longitudinal position determination in prototype proportional chambers for the PANDA experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2007, 574, 50-56.	1.6	7
111	Analyzing power $\langle \sigma_{\text{pol}} \rangle$ for $\bar{p}p \rightarrow \bar{\Lambda}^* p$ meson production in proton-proton collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 662, 14-18.	4.1	7
112	Upper limits for a narrow resonance in the reaction $p + \bar{p} \rightarrow K^+ + (\bar{\Lambda}^* p)$ . Physical Review D, 2011, 84, .	4.7	7
113	Feasibility studies for the measurement of time-like proton electromagnetic form factors from $p \rightarrow \mu^+ \mu^-$ at $\overline{\text{PANDA}}$ at FAIR. European Physical Journal A, 2021, 57, 1.	2.5	7
114	Conceptual design and simulation of the PANDA detector. Nuclear Instruments & Methods in Physics Research B, 2004, 214, 201-206.	1.4	6
115	Cryogenic target with very thin $\text{Au}$ finger-heat pipe. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2006, 556, 20-23.	1.6	6
116	Study of the $^3\text{He} \rightarrow \bar{\Lambda}$ system in $d \rightarrow p$ collisions. Nuclear Physics A, 2007, 790, 438c-441c.	1.5	6
117	Precision measurements of the $\bar{p}p \rightarrow \bar{\Lambda}^* p$ reactions: Importance of long-range and tensor force effects. Physical Review C, 2009, 79, .	2.9	6
118	A recoil detector for the measurement of antiproton-proton elastic scattering at angles close to $90^\circ$ . European Physical Journal A, 2014, 50, 1.	2.5	6
119	Measurement of polarization observables of the associated strangeness production in proton proton interactions. European Physical Journal A, 2016, 52, 1.	2.5	6
120	Pattern recognition in the HADES spectrometer: an application of FPGA technology in nuclear and particle physics. , 0, .		5
121	Upper limit of the total cross section for the $\bar{p}p \rightarrow \bar{\Lambda}^* p$ reaction. Physical Review C, 2010, 81, .	2.9	5
122	Particle identification using the time-over-threshold measurements in straw tube detectors. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2013, 718, 573-574.	1.6	5
123	Investigation of the $\bar{p}p \rightarrow \bar{\Lambda}^* p$ reaction with the FZ Jülich WASA-at-COSY facility. Physical Review C, 2013, 88, .	2.9	5
124	A free-running, time-based readout method for particle detectors. Journal of Instrumentation, 2014, 9, C03025-C03025.	1.2	5
125	Search for Polarization Effects in the Antiproton Production Process. Acta Physica Polonica B, 2015, 46, 191.	0.8	5
126	Differential cross sections for neutron-proton scattering in the region of the $\bar{p}p \rightarrow \bar{\Lambda}^* p$ dibaryon resonance. Physical Review C, 2020, 102, .	2.9	5



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127	The potential of $\Lambda$ and $\Xi$ studies with PANDA at FAIR. European Physical Journal A, 2021, 57, 1.	2.5	5
128	Antiproton physics at GSI: Studying the physics of hadronic matter. European Physical Journal A, 2003, 18, 177-180.	2.5	4
129	NEAR THRESHOLD $\Lambda$ MESON PRODUCTION IN dp COLLISIONS. International Journal of Modern Physics A, 2007, 22, 528-532.	1.5	4
130	Performance measurements of a 7mm-diameter hydrogen heat pipe. Cryogenics, 2007, 47, 158-165.	1.7	4
131	A thin gold coated hydrogen heat pipe-cryogenic target for external experiments at COSY. Cryogenics, 2009, 49, 192-197.	1.7	4
132	Single-pion production in pp collisions at 0.95 GeV/c (II). European Physical Journal A, 2009, 39, 281-289.	2.5	4
133	The pp $\Lambda^+ nK^+ \Lambda^+$ reaction at 2.95 GeV/c. European Physical Journal A, 2012, 48, 1.	2.5	4
134	A time-based front-end ASIC for the silicon micro strip sensors of the PANDA Micro Vertex Detector. Journal of Instrumentation, 2016, 11, C03017-C03017.	1.2	4
135	Deuterium heat pipes cryogenic targets for COSY experiments. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2005, 550, 61-69.	1.6	3
136	Di-electron measurements in C+C reactions at with HADES. Nuclear Physics A, 2005, 752, 433-438.	1.5	3
137	THE PANDA DETECTOR AT THE GSI-FAIR PROJECT. International Journal of Modern Physics A, 2005, 20, 567-569.	1.5	3
138	Single $\pi^+$ production in np collisions for excess energies up to 90 MeV. European Physical Journal A, 2008, 36, 7-16.	2.5	3
139	A versatile digital readout system for the PANDA MVD. , 2008, , .		3
140	The straw tube tracker of the ANDA experiment. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2010, 617, 148-150.	1.6	3
141	Development of a readout system for the PANDA Micro Vertex Detector. Journal of Instrumentation, 2013, 8, C01043-C01043.	1.2	3
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