

Barbara KÅ,os

List of Publications by Year in descending order

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Version: 2024-02-01

101
papers

2,206
citations

279798

23
h-index

223800

46
g-index

103
all docs

103
docs citations

103
times ranked

2228
citing authors

#	ARTICLE	IF	CITATIONS
1	Neutron Density Distributions Deduced from Antiprotonic Atoms. Physical Review Letters, 2001, 87, 082501.	7.8	319
2	Abashian-Booth-Crowe Effect in Basic Double-Pionic Fusion: A New Resonance?. Physical Review Letters, 2011, 106, 242302.	7.8	210
3	Evidence for a New Resonance from Polarized Neutron-Proton Scattering. Physical Review Letters, 2014, 112.	7.8	150
4	Neutron density distributions from antiprotonic ^{208}Pb and ^{209}Bi 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.	2.9	119
5	Search for a dark photon in the ^{209}Bi decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 187-193.	4.1	114
6	Systematic study of three-nucleon force effects in the cross section of the deuteron-proton breakup at 130 MeV. Physical Review C, 2005, 72, .	2.9	87
7	NEUTRON DENSITY DISTRIBUTIONS FROM ANTIPROTONIC ATOMS COMPARED WITH HADRON SCATTERING DATA. International Journal of Modern Physics E, 2004, 13, 343-351.	1.0	81
9	Evidence of the Coulomb-force effects in the cross-sections of the deuteron-proton breakup at 130 MeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 641, 23-27.	4.1	64
10	Measurement of the ^{209}Bi in search for the recently observed resonance structure in ^{209}Bi Neutron-proton scattering in the context of the ^{209}Bi resonance. Physical Review C, 2014, 90, .	2.9	62
11	Vector and tensor analyzing powers in deuteron-proton breakup at 130 MeV. Physical Review C, 2010, 82, .	2.9	48
12	Correction factors for determination of annual average radon concentration in dwellings of Poland resulting from seasonal variability of indoor radon. Applied Radiation and Isotopes, 2011, 69, 1459-1465.	1.5	47
13	Search for ^4He with the WASA-at-COSY detector. Physical Review C, 2013, 87, .	2.9	40
14	Information on antiprotonic atoms and the nuclear periphery from the PS209 experiment. Nuclear Physics A, 2001, 692, 176-181.	1.5	37
15	Exclusive measurement of the ^{209}Bi in search for the recently observed resonance structure in ^{209}Bi Neutron-proton scattering in the context of the ^{209}Bi resonance. Physical Review C, 2014, 90, .	4.1	34
16	Composition of the nuclear periphery from antiproton absorption using short-lived residual nuclei. Physical Review C, 1999, 60, .	1.5	33
17		2.9	32

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19	Measurement of the $\pi^+\pi^0$ Dalitz plot distribution with the WASA detector at COSY. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 677, 24-29.	4.1	31
20	Abashian-Booth-Crowe resonance structure in the double pionic fusion to ^3He . Physical Review C, 2012, 86, .	2.9	30
21	ABC effect and resonance structure in the double-pionic fusion to ^3He . Physical Review C, 2015, 91, .	2.9	30
22	Isoscalar single-pion production in the region of Roper and $d^*(2380)$ resonances. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 774, 599-607.	4.1	24
23	Measurement of the $\pi^+\pi^0$ plot distribution. Physical Review C, 2014, 90, .	2.9	29
24	Mean annual ^{222}Rn concentration in homes located in different geological regions of Poland – first approach to whole country area. Journal of Environmental Radioactivity, 2011, 102, 735-741.	1.7	22
25	Nucleon density of ^{172}Yb and ^{176}Yb at the nuclear periphery determined with antiprotonic x rays. Physical Review C, 1998, 58, 3195-3204.	2.9	21
26	Measurement of the $\pi^+\pi^0$ reaction with polarized beam in the region of the $d^*(2380)$ resonance. European Physical Journal A, 2016, 52, 1.	2.5	21
27	Nuclear surface studies with antiprotonic atom x rays. Physical Review C, 2007, 76, .	2.9	20
28	Nucleon density in the nuclear periphery determined with antiprotonic x rays: Cadmium and tin isotopes. Physical Review C, 2003, 67, .	2.9	18
29	Precise set of tensor analyzing power T20 data for the deuteron-proton breakup at 130 MeV. European Physical Journal A, 2009, 42, 13.	2.5	16
30	Vector analyzing powers of deuteron-proton elastic scattering and breakup at 130 MeV. Physical Review C, 2012, 85, .	2.9	16
31	Isotensor Dibaryon in the $p\pi^0$ Reaction?. Physical Review Letters, 2018, 121, 052001.	7.8	15
32	Vector analyzing powers of the deuteron-proton elastic scattering and breakup at 100 MeV. European Physical Journal A, 2013, 49, 1.	2.5	14
33	Measurement of the $\pi^+\pi^0$ Dalitz plot distribution. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 418-425.	4.1	13
34	Cross section ratio and angular distributions of the reaction $p + d \rightarrow ^3\text{He} + \pi^+$ at 48.8 MeV and 59.8 MeV excess energy. European Physical Journal A, 2014, 50, 1.	2.5	12
35	Investigation of the Deuteron Breakup on Proton Target in the Forward Angular Region at 130 MeV. Few-Body Systems, 2015, 56, 665-690.	1.5	12
36	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

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37	Measurements of branching ratios for Λ decays into charged particles. Physical Review C, 2016, 94, .	2.9	12
38	Nucleon density in the nuclear periphery determined with antiprotonic x rays: Calcium isotopes. Physical Review C, 2001, 65, .	2.9	10
39	Intercomparison measurements of ^{222}Rn concentration in water samples in Poland. Radiation Measurements, 2012, 47, 89-95.	1.4	10
40	Total and differential cross sections of Λ -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
41	Strong interaction and E_2 effect in even-A antiprotonic Te atoms. Physical Review C, 2004, 69, .	2.9	9
42	THREE-NUCLEON INTERACTION DYNAMICS STUDIED VIA THE DEUTERON-PROTON BREAKUP. International Journal of Modern Physics A, 2009, 24, 515-520.	1.5	9
43	Charge symmetry breaking in ^4He with WASA-at-COSY. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 739, 44-49.	4.1	9
44	Antiprotonic investigation of the nuclear periphery. Nuclear Physics, Section B, Proceedings Supplements, 1997, 56, 108-113.	0.4	8
45	Investigation of Three Nucleon Force Effects in Deuteron-Proton Breakup Reaction. Acta Physica Polonica B, 2014, 45, 527.	0.8	8
46	Search for the Λ mesic ^3He in the p and d breakup reaction. Physical Review C, 2020, 102, .	2.9	8
47	Investigation of three nucleon force effects in deuteron-proton breakup reaction. EPJ Web of Conferences, 2014, 81, 06007.	4.1	8
48	Three-body breakup in deuteron-deuteron collisions at 160 MeV including quasifree scattering. Physical Review C, 2019, 100, .	2.9	6
49	Investigation of the cross section for p elastic scattering and d breakup reaction. Physical Review C, 2020, 102, .	2.9	6
50	Investigation of the ^3He reaction with the FZ ^4He WASA-at-COSY facility. Physical Review C, 2013, 88, .	2.9	5
51	Studies of Deuteron Breakup Reactions in Deuteron-Deuteron Collisions at 160 MeV with BINA. Few-Body Systems, 2019, 60, 1.	1.5	5
52	Differential cross sections for neutron-proton scattering in the region of the Δ dibaryon resonance. Physical Review C, 2020, 102, .	2.9	5
53	Three-nucleon dynamics in dp breakup collisions using the WASA detector at COSY ^4He . Physical Review C, 2020, 101, .	2.9	5

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55	Information on the nuclear periphery deduced from the properties of heavy antiprotonic atoms. Nuclear Instruments & Methods in Physics Research B, 2004, 214, 157-159.	1.4	4
56	Studies of the Three-Nucleon System Dynamics in the Deuteron-Proton Breakup Reaction. EPJ Web of Conferences, 2012, 37, 09011.	0.3	4
57	Measurement of differential cross sections for the deuteron-proton breakup reaction at 160 MeV. Physical Review C, 2020, 102, .	2.9	4
58	Search for C violation in the decay $\Lambda^0 \rightarrow \Lambda^+ e^- \bar{\nu}_e$ with WASA-at-COSY. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 784, 378-384.	4.1	3
59	Importance of d-wave contributions in the charge symmetry breaking reaction $dd \rightarrow 4\text{He}$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 781, 645-650.	4.1	3
60	Examination of the production of an isotensor dibaryon in the $pp \rightarrow pp\bar{p} + \bar{p}$ reaction. Physical Review C, 2019, 99, .	2.9	3
61	Nuclear interactions of antiprotons: theory. Nuclear Physics A, 1999, 655, c257-c262.	1.5	2
62	Cross Sections of the Deuteron-Proton Breakup at 130 MeV: A Probe of Three-Nucleon System Dynamics. Few-Body Systems, 2011, 50, 235-238.	1.5	2
63	THREE-NUCLEON INTERACTION DYNAMICS STUDIED VIA THE DEUTERON-PROTON BREAKUP. International Journal of Modern Physics A, 2011, 26, 725-727.	1.5	2
64	Few-Nucleon System Dynamics Studied via Deuteron-Deuteron Breakup Reactions at 160 MeV. Few-Body Systems, 2014, 55, 1035-1036.	1.5	2
65	Systematic Study of Three-Nucleon Systems Dynamics in the Cross Section of the Deuteron-Proton Breakup Reaction. Few-Body Systems, 2014, 55, 721-724.	1.5	2
66	Experimental Study of Three-Nucleon Dynamics in the Dp Breakup Collisions Using the WASA Detector. Few-Body Systems, 2017, 58, 1.	1.5	2
67	Spin Dependence of $\langle \sigma \rangle$ Meson Production in Proton-Proton Collisions Close to Threshold. Physical Review Letters, 2018, 120, 022002.	7.8	2
68	Measurement of Differential Cross Section for Proton-induced Deuteron Breakup at 108 MeV. Acta Physica Polonica B, 2019, 50, 361.	0.8	2
69	Analyzing power measurement in deuteron-proton breakup at 130 MeV. AIP Conference Proceedings, 2005, , .	0.4	1
70	Antiprotonic atoms as a tool for the investigation of the nuclear periphery. AIP Conference Proceedings, 2005, , .	0.4	1
71	Cross sections of the deuteron-proton breakup at 130 MeV. AIP Conference Proceedings, 2005, , .	0.4	1
72	Studies of the three-nucleon system dynamics: Cross sections of the deuteron-proton breakup at 130 MeV. Few-Body Systems, 2008, 44, 11-13.	1.5	1

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73	A large, precise set of polarization observables for deuteron-proton breakup at 130 MeV. AIP Conference Proceedings, 2008, , .	0.4	1
74	Experimental study of relativistic effects in the dp breakup reaction using the WASA detector. EPJ Web of Conferences, 2014, 66, 03045.	0.3	1
75	Experimental Investigation of the Few-Nucleon Dynamics in Deuteron-Deuteron Collision at 160 MeV. EPJ Web of Conferences, 2014, 81, 06006.	0.3	1
76	Contribution of three nucleon force investigated in deuteron-proton breakup reaction. EPJ Web of Conferences, 2016, 130, 07019.	0.3	1
77	Systematic Study of Three-Nucleon System Dynamics in Deuteron-Proton Breakup Reaction. Few-Body Systems, 2017, 58, 1.	1.5	1
78	Dynamics of Three-Nucleon System Studied in Deuteron-Proton Breakup Experiments. Few-Body Systems, 2017, 58, 1.	1.5	1
79	Three- and Four-nucleon Dynamics at Intermediate Energies. Acta Physica Polonica B, Proceedings Supplement, 2013, 6, 1167.	0.1	1
80	Deuteron-Deuteron Collision at 160 MeV. Acta Physica Polonica B, 2016, 47, 411.	0.8	1
81	Configuration Efficiency for Deuteron Breakup Reaction Investigation. Acta Physica Polonica B, Proceedings Supplement, 2017, 10, 149.	0.1	1
82	Experimental Study of Three-nucleon Dynamics in Proton-Deuteron Breakup Reaction. Acta Physica Polonica B, 2018, 49, 463.	0.8	1
83	Cross Sections of the Deuteron-Proton Breakup as a Probe of Three-Nucleon System Dynamics. AIP Conference Proceedings, 2008, , .	0.4	0
84	Analyzing Powers of the Deuteron-Proton Breakup in a Wide Phase Space Region. EPJ Web of Conferences, 2010, 3, 05009.	0.3	0
85	Vector and Tensor Analyzing Powers in Deuteron-Proton Breakup. Few-Body Systems, 2011, 50, 283-285.	1.5	0
86	Investigations of Few-Nucleon System Dynamics in Medium Energy Domain. Few-Body Systems, 2013, 54, 1301-1305.	1.5	0
87	Investigation of the Three-Nucleon System Dynamics in the Deuteron-Proton Breakup Reaction. Few-Body Systems, 2014, 55, 639-644.	1.5	0
88	Studies of the Three-Nucleon System Dynamics in the Deuteron-Proton Breakup Reaction. EPJ Web of Conferences, 2014, 66, 03019.	0.3	0
89	Systematic studies of the three-nucleon system dynamics in the deuteron-proton breakup reaction. AIP Conference Proceedings, 2015, , .	0.4	0
90	Experimental Investigation of Few-Nucleon Dynamics at Medium Energies. Acta Physica Polonica A, 2015, 127, 1529-1530.	0.5	0

#	ARTICLE	IF	CITATIONS
91	Coulomb Force Effects in Deuteron–Proton Breakup Reaction. Acta Physica Polonica B, 2015, 46, 459.	0.8	0
92	Experimental study of three-nucleon dynamics in the dp breakup collisions using the WASA detector. EPJ Web of Conferences, 2016, 130, 07010.	0.3	0
93	Experimental study of Three-Nucleon Dynamics in the dp breakup reaction. EPJ Web of Conferences, 2016, 113, 04004.	0.3	0
94	Experimental Studies of the Coulomb Force Effects in Deuteron-Proton Break-up Reaction at Medium Energy Regime. EPJ Web of Conferences, 2016, 113, 04003.	0.3	0
95	Backward single-pion production in the $p \rightarrow \text{He} \pi^0 p \rightarrow \text{He} \pi^0$. European Physical Journal A, 2018, 54, 1.	2.5	0
96	Experimental Studies of Few-Nucleon Systems. Acta Physica Polonica A, 2021, 139, 319-322.	0.5	0
97	Three-Nucleon Force Effects in Observables for $d \rightarrow p n$ Breakup at 130 MeV. , 2007, , .		0
98	Experimental Study of Three-nucleon Dynamics in Proton–Deuteron Breakup Reaction. Acta Physica Polonica B, 2017, 48, 485.	0.8	0
99	Study of Three-nucleon Dynamics in the dp Breakup Collisions Using the WASA Detector. Acta Physica Polonica B, Proceedings Supplement, 2018, 11, 57.	0.1	0
100	Simulation of Star Configurations in the BINA Detector. Acta Physica Polonica B, 2020, 51, 763.	0.8	0
101	Study of Three-Nucleon Dynamics in the dp Breakup Collisions Using the WASA Detector. Springer Proceedings in Physics, 2020, , 455-459.	0.2	0