

Nicholas Zachariou

List of Publications by Year in descending order

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Version: 2024-02-01

127
papers

2,798
citations

172457

29
h-index

206112

48
g-index

128
all docs

128
docs citations

128
times ranked

1457
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of charged-pion production in deep-inelastic scattering off nuclei with the CLAS detector. Physical Review C, 2022, 105, .	2.9	7
2	Multidimensional, High Precision Measurements of Beam Single Spin Asymmetries in Semi-inclusive Electroproduction off Protons in the Valence Region. Physical Review Letters, 2022, 128, 062005.	7.8	5
3	Electroproduction data in the resonance region at $Q^2 = 0.2$ GeV ² from Λ hyperon photoproduction off the neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136985.	2.9	1
4	Beam-spin asymmetry $\hat{\Sigma}$ for Λ hyperon photoproduction off the neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136985.	4.1	9
5	Measurement of Compton Scattering at MAMI for the Extraction of the Electric and Magnetic Polarizabilities of the Proton. Physical Review Letters, 2022, 128, 132503.	7.8	7
6	Beam-recoil transferred polarization in electroproduction in the nucleon resonance region with CLAS12. Physical Review C, 2022, 105, .	2.9	0
7	Differential cross sections for $\Lambda(1520)$ using photoproduction at CLAS. Physical Review C, 2021, 103, .	2.9	4
8	Beam Spin Asymmetry in Semi-Inclusive Electroproduction of Hadron Pairs. Physical Review Letters, 2021, 126, 062002.	7.8	9
9	Photoproduction of the $f_2(1270)$ Meson Using the CLAS Detector. Physical Review Letters, 2021, 126, 082002.	7.8	3
10	Measurement of the proton spin structure at long distances. Nature Physics, 2021, 17, 736-741.	16.7	14
11	Photon quantum entanglement in the MeV regime and its application in PET imaging. Nature Communications, 2021, 12, 2646.	12.8	24
12	Single π^0 production off neutrons bound in deuteron with linearly polarized photons. European Physical Journal A, 2021, 57, 205.	2.5	4
13	Double polarisation observable G for single pion photoproduction from the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 817, 136304.	4.1	7
14	Measurement of deeply virtual Compton scattering off ^4He with the CEBAF Large Acceptance Spectrometer at Jefferson Lab. Physical Review C, 2021, 104, .	2.9	2
15	$^{12}\text{C}(e,e'pN)$ measurements of short range correlations in the tensor-to-scalar interaction transition region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 820, 136523.	4.1	18
16	Electron-beam energy reconstruction for neutrino oscillation measurements. Nature, 2021, 599, 565-570.	27.8	27
17	Improved Λ Elastic Scattering Cross Sections between 0.9 and 2.0 GeV. Physical Review Letters, 2021, 127, 272303.	7.8	14
18	Model selection for Λ hyperon photoproduction within an isobar model. Physical Review C, 2021, 104, .	2.9	0

#	ARTICLE	IF	CITATIONS
19	First Measurement of Timelike Compton Scattering. Physical Review Letters, 2021, 127, 262501.	7.8	19
20	Beam-target helicity asymmetry E in $K^+\Lambda^0$ photoproduction on the neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135662.	4.1	8
21	<p>xmlns:mml="http://www.w3.org/1998/Math/MathML"</p> <p>display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>d</mml:mi></mml:mrow></mml:msup></mml:mrow></mml:mo></mml:math></p> <p>stretchy="false"></mml:mo><mml:mn>2380</mml:mn><mml:mo>Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 667 Td (stretchy="</p>		

#	ARTICLE	IF	CITATIONS
55	Differential cross sections and polarization observables from CLAS $K^+ \pi^0$ photoproduction and the search for new N^* states. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 142-150.	4.1	14
56	Target and double spin asymmetries of deeply virtual π^0 production with a longitudinally polarized proton target and CLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 768, 168-173.	4.1	14
57	Target and beam-target spin asymmetries in exclusive pion electroproduction for $Q^2 > 1 \text{ GeV}^2$. I. $e p \rightarrow e' \pi^+ n$. Physical Review C, 2017, 95, .	2.9	4
58	Differential cross section measurements for $\hat{\sigma}^{\pi^+ n}$ above the first nucleon resonance region. Physical Review C, 2017, 96, .	2.9	19
59	Measurements of cross sections with CLAS at $Q^2 > 1.40 \text{ GeV}^2$. Physical Review C, 2017, 96, .	2.9	29
60	Beam-Target Helicity Asymmetry for $\hat{\sigma}^{\pi^+ n}$ in the N^* Resonance Region. Physical Review Letters, 2017, 118, 242002.	7.8	26
61	Photon beam asymmetry $\hat{\Sigma}$ for $\hat{\sigma}$ and $\hat{\sigma}^2$ photoproduction from the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 213-221.	4.1	32
62	Exclusive electroproduction at $Q^2 > 1 \text{ GeV}^2$ with CLAS and transversity generalized parton distributions. Physical Review C, 2017, 95, .	2.9	16
63	Measurement of the helicity asymmetry $\hat{\Sigma}$ for $\hat{\sigma}^2$ photoproduction. Physical Review C, 2017, 96, .	7.8	30
64	Measurement of the differential and total cross sections of the $\hat{\sigma}^2$ reaction within the resonance region. Physical Review C, 2017, 96, .	2.9	26
65	Measurement of the helicity asymmetry $\hat{\Sigma}$ for $\hat{\sigma}^2$ photoproduction. Physical Review C, 2017, 96, .	4.1	11
66	Study of the Few Nucleon Systems at CLAS. Few-Body Systems, 2017, 58, 1.	1.5	1
67	Target and beam-target spin asymmetries in exclusive pion electroproduction for $Q^2 > 1 \text{ GeV}^2$. II. $e p \rightarrow e' \pi^+ n$. Physical Review C, 2017, 95, .	2.9	4
68	Measurement of two-photon exchange effect by comparing elastic cross sections. Physical Review C, 2017, 95, .	2.9	13
69	Measurement of the helicity asymmetry $\hat{\Sigma}$ for $\hat{\sigma}^2$ photoproduction. Physical Review C, 2017, 96, .	2.9	13
70	Determination of the proton spin structure functions for $0.05 < Q^2 < 5 \text{ GeV}^2$ using CLAS. Physical Review C, 2017, 96, .	2.9	30
71	Polarization observables in few nucleon systems with CLAS. Journal of Physics: Conference Series, 2017, 938, 012016.	0.4	0
72	Studies of $\gamma d \rightarrow K^+ \Lambda^0 n$ Interaction Through Polarization Observables for Final-State Interactions in the $(\vec{\gamma} d \rightarrow K^+ \Lambda^0 n)$ Reaction. , 2017, .		0

#	ARTICLE	IF	CITATIONS
91	Exclusive π^0 production off the proton at CLAS. Physical Review C, 2014, 90, .	2.9	30
92	Induced polarization of $\Lambda(1116)$ in kaon electroproduction. Physical Review C, 2014, 90, .	2.9	8
93	$\Lambda(1116)$ -meson photoproduction on hydrogen in the neutral decay mode. Physical Review C, 2014, 89, .	2.9	31
94	Precision measurements of g_1 of the proton and of the deuteron with 6 GeV electrons. Physical Review C, 2014, 90, .	2.9	33
95	Publisher's Note: Data analysis techniques, differential cross sections, and spin density matrix elements for the reaction $\bar{p} \rightarrow \pi^0 p$ [Phys. Rev. C89, 055208 (2014)]. Physical Review C, 2014, 90, .	2.9	15
96	Strangeness Suppression of Λ^0 Creation Observed in Exclusive Reactions. Physical Review Letters, 2014, 113, 152004.	7.8	14
97	Spin and parity measurement of the $\Lambda(1405)$ resonance. Physical Review Letters, 2014, 113, 152004.	7.8	43
98	Publisher's Note: Beam asymmetry measurements of the $\Lambda(1405)$ resonance on the proton for photon energies from 1.102 to 1.862 GeV [Phys. Rev. C88, 065203 (2013)]. Physical Review C, 2014, 89, .	2.9	19
99	Photodisintegration of Light Nuclei. Few-Body Systems, 2014, 55, 899-902.	1.5	0
100	Beam-spin asymmetries from semi-inclusive pion electroproduction. Physical Review D, 2014, 89, .	4.7	19
101	Momentum sharing in imbalanced Fermi systems. Science, 2014, 346, 614-617.	12.6	233
102	Data analysis techniques, differential cross sections, and spin density matrix elements for the reaction $\bar{p} \rightarrow \pi^0 p$. Physical Review C, 2014, 89, .	2.9	49
103	Deep exclusive π^0 electroproduction off the proton at CLAS. European Physical Journal A, 2013, 49, 1.	2.5	18
104	Demonstration of a novel technique to measure two-photon exchange effects in elastic π^0 electroproduction. Physical Review C, 2013, 88, .	2.9	21
105	Measurement of transparency ratios for protons from short-range correlated pairs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 722, 63-68.	4.1	23
106	First observation of the $\Lambda(1405)$ resonance in electroproduction. Physical Review C, 2013, 88, .	2.9	22
107	Measurement of the $\Lambda(1405)$ resonance in electroproduction. Physical Review C, 2013, 88, .	2.9	22
108	Hard Two-Body Photodisintegration of ^3He . Physical Review Letters, 2013, 110, 242301.	7.8	5

#	ARTICLE	IF	CITATIONS
109	<p> $K + \hat{b} \rightarrow \hat{b} + K$ </p> <p> $K + \hat{b} \rightarrow \hat{b} + K$ </p> <p> $K + \hat{b} \rightarrow \hat{b} + K$ </p> <p>Cross sections for the $K + \hat{b} \rightarrow \hat{b} + K$ reaction. Physical Review C, 2013, 87, .</p>	2.9	18
110	<p> $p + \hat{b} \rightarrow \hat{b} + p$ </p> <p> $p + \hat{b} \rightarrow \hat{b} + p$ </p> <p> $p + \hat{b} \rightarrow \hat{b} + p$ </p> <p>Physical Review C, 2013, 87, .</p>	2.9	17
111	<p> $p + \hat{b} \rightarrow \hat{b} + p$ </p> <p> $p + \hat{b} \rightarrow \hat{b} + p$ </p> <p> $p + \hat{b} \rightarrow \hat{b} + p$ </p> <p>Physical Review C, 2013, 87, .</p>	2.9	72
112	<p> $\hat{b} + \hat{b} \rightarrow \hat{b} + \hat{b}$ </p> <p> $\hat{b} + \hat{b} \rightarrow \hat{b} + \hat{b}$ </p> <p> $\hat{b} + \hat{b} \rightarrow \hat{b} + \hat{b}$ </p> <p>Transverse polarization of \hat{b} photoproduction on a hydrogen target in CLAS. Physical Review C, 2013, 87, .</p>	2.9	16
113	<p> $\hat{b} + \hat{b} \rightarrow \hat{b} + \hat{b}$ </p> <p> $\hat{b} + \hat{b} \rightarrow \hat{b} + \hat{b}$ </p> <p> $\hat{b} + \hat{b} \rightarrow \hat{b} + \hat{b}$ </p> <p>Measurement of the \hat{b} photoproduction line shapes near the \hat{b} resonance. Physical Review C, 2013, 87, .</p>	2.9	113
114	<p>Near-threshold neutral pion electroproduction at high momentum transfers and generalized form factors. Physical Review C, 2013, 87, .</p>	2.9	2
115	<p> $\hat{b} + \hat{b} \rightarrow \hat{b} + \hat{b}$ </p> <p> $\hat{b} + \hat{b} \rightarrow \hat{b} + \hat{b}$ </p> <p> $\hat{b} + \hat{b} \rightarrow \hat{b} + \hat{b}$ </p> <p>Beam asymmetry \hat{b} photoproduction on the proton for photon energies from 1.102 to 1.062 GeV. Physical Review C, 2013, 88, .</p>	2.9	10
116	<p>Upper limits for the photoproduction cross section for the \hat{b} (1860) pentaquark state off the deuteron. Physical Review C, 2012, 85, .</p>	2.9	2
117	<p> $H + \hat{b} \rightarrow \hat{b} + H$ </p> <p> $H + \hat{b} \rightarrow \hat{b} + H$ </p> <p> $H + \hat{b} \rightarrow \hat{b} + H$ </p> <p>Low structure in $H + \hat{b} \rightarrow \hat{b} + H$ reaction. Physical Review C, 2013, 87, .</p>		

#	ARTICLE	IF	CITATIONS
127	<p>Forward Neutral-Pion Transverse Single-Spin Asymmetries in p Collisions at $\sqrt{s} = 200$ GeV Physical Review Letters, 2008, 101, 222001.</p>	7.8	138