

# Nicholas Zachariou

## List of Publications by Year in descending order

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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	Momentum sharing in imbalanced Fermi systems. <i>Science</i> , 2014, 346, 614-617.	12.6	233
2	Forward Neutral-Pion Transverse Single-Spin Asymmetries in $p\bar{p}$ Collisions at $\sqrt{s} = 200$ GeV. <i>Physical Review Letters</i> , 2008, 101, 222001.	7.8	138
3	Probing high-momentum protons and neutrons in neutron-rich nuclei. <i>Nature</i> , 2018, 560, 617-621.	27.8	127
4	Measurement of the $\Lambda$ photoproduction line shapes near the $\Lambda(1405)$ resonance. <i>Physical Review Letters</i> , 2011, 106, 252001.	2.9	113
5	Experimental study of the $11\text{D}$ resonance. <i>Physical Review C</i> , 2012, 86, .	2.9	108
6	Direct Observation of Proton-Neutron Short-Range Correlation Dominance in Heavy Nuclei. <i>Physical Review Letters</i> , 2019, 122, 172502.	7.8	80
7	The CLAS12 Spectrometer at Jefferson Laboratory. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 959, 163419.	1.6	75
8	Cross Sections for the Exclusive Photon Electroproduction on the Proton and Generalized Parton Distributions. <i>Physical Review Letters</i> , 2015, 115, 212003.	7.8	73
9	Differential photon production cross sections of the $\Lambda$ and $\Lambda(1405)$ . <i>Physical Review C</i> , 2013, 88, .	2.9	72
10	Towards a Resolution of the Proton Form Factor Problem: New Electron and Positron Scattering Data. <i>Physical Review Letters</i> , 2015, 114, 062003.	7.8	71
11	Measurement of Exclusive $\Lambda$ Electroproduction Structure Functions and their Relationship to Transverse Generalized Parton Distributions. <i>Physical Review Letters</i> , 2012, 109, 112001.	7.8	50
12	Data analysis techniques, differential cross sections, and spin density matrix elements for the reaction $\gamma p \rightarrow \Lambda^0 p$ . <i>Physical Review C</i> , 2014, 89, .	2.9	49
13	Measurements of $e p \rightarrow e' \Lambda^0 p$ and extraction of nucleon. <i>Physical Review C</i> , 2015, 91, .	2.9	48
14	Photoproduction of $\Lambda$ and $\Lambda(1405)$ hyperons using linearly polarized photons. <i>Physical Review C</i> , 2016, 93, .	2.9	46
15	Spin and parity measurement of the $\Lambda(1405)$ resonance. <i>Physical Review Letters</i> , 2015, 114, 032001.	7.8	43
16	Center of Mass Motion of Short-Range Correlated Nucleon Pairs studied via the $A(e, e')A'$ reaction. <i>Physical Review Letters</i> , 2019, 122, 172502.	7.8	42
17	Single and double spin asymmetries for deeply virtual Compton scattering measured with CLAS and a longitudinally polarized proton target. <i>Physical Review D</i> , 2015, 91, .	4.7	41
18	Longitudinal Target-Spin Asymmetries for Deeply Virtual Compton Scattering. <i>Physical Review Letters</i> , 2015, 114, 032001.	7.8	40

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19	Evidence for the onset of color transparency in $\pi^0$ electroproduction off nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 88, .	4.1	33
20	Beam asymmetry $\Sigma$ for $\pi^0$ production on the proton for photon energies from 1.102 to 1.862 GeV. Physical Review C, 2013, 88, .	2.9	33
21	Measurement of two-photon exchange effect by comparing elastic $\pi^0$ cross sections. Physical Review C, 2017, 95, .	4.1	32
22	Precision measurements of $\sigma_{\pi^0}$ of the proton and of the deuteron with 6 GeV electrons. Physical Review C, 2014, 90, .	2.9	33
23	First measurement of the helicity asymmetry $E$ in photoproduction on the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 755, 64-69.	4.1	33
24	Photon beam asymmetry $\Sigma$ for $\pi^0$ and $\pi^+$ photoproduction from the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 213-221.	4.1	32
25	$\pi^0$ -meson photoproduction on hydrogen in the neutral decay mode. Physical Review C, 2014, 89, .	2.9	31
26	Exclusive $\pi^0$ production at $W^2 < 2$ GeV <sup>2</sup> with CLAS. Physical Review C, 2014, 90, .	2.9	30
27	Measurement of the polarization observable $E$ in the $\pi^0$ production on $^4\text{He}$ . Physical Review Letters, 2017, 119, 202004.	7.8	30
28	Determination of the proton spin structure functions for $0.05 < Q^2 < 5$ GeV <sup>2</sup> using CLAS. Physical Review C, 2017, 96, .	2.9	30
29	Measurement of the polarization observable $E$ in the $\pi^0$ production on $^4\text{He}$ . Physical Review Letters, 2017, 119, 202004.		

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37	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
38	First observation of the $\Lambda(1405)$ shape in electroproduction. Physical Review C, 2013, 88, .	2.9	22
39	Electromagnetic decay of the $\Lambda(1405)$	2.9	22
40	Demonstration of a novel technique to measure two-photon exchange effects in elastic $\Lambda$ electroproduction. Physical Review C, 2013, 88, .	4.7	21
41	First results on nucleon resonance photocouplings from the $\Lambda^3\text{p}\pi^+\text{K}^-\text{K}^+\text{p}$ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 788, 371-379.	4.1	20
42	Beam-spin asymmetries from semi-inclusive pion electroproduction. Physical Review D, 2014, 89, .	4.7	19
43	Differential cross section measurements for $\Lambda^3\text{n}\pi^+\text{K}^-\text{K}^+\text{p}$ above the first nucleon resonance region. Physical Review C, 2017, 96, .	2.9	19
44	First Measurement of Timelike Compton Scattering. Physical Review Letters, 2021, 127, 262501.	7.8	19
45	Deep exclusive $\text{K}^+$ electroproduction off the proton at CLAS. European Physical Journal A, 2013, 49, 1.	2.5	18
46	Separated structure functions for exclusive $\text{K}^+$ electroproduction at 5.5 GeV measured with CLAS. Physical Review C, 2013, 87, .	2.9	18
47	Cross section for $\Lambda^3\text{n}\pi^+\text{K}^0$ measured at the Mainz A2 experiment. Physical Review C, 2019, 100, .	2.9	18
48	$^{12}\text{C}(e,e'pN)$ 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
49	Cross sections for the $\Lambda^3\text{p}$ and $\Lambda^3\text{n}$ up to large values of Mandelstam variables $s$ and $t$ and Exclusive $\Lambda^3\text{p}$ electroproduction at $W > 2$ GeV with CLAS and transversity generalized parton distributions. Physical Review C, 2017, 95, .	2.9	17
50	Physics Review C, 2010, 83, .	2.9	17
51	Exclusive $\Lambda^3\text{p}$ electroproduction at $W > 2$ GeV with CLAS and transversity generalized parton distributions. Physical Review C, 2017, 95, .	2.9	16
52	Publisher's Note: Data analysis techniques, differential cross sections, and spin density matrix elements for the reaction $\Lambda^3\text{p}\pi^+\text{K}^0$ [Phys. Rev. C89, 055208 (2014)]. Physical Review C, 2014, 90, .	2.9	15
53	Search for baryon-number and lepton-number violating decays of $\Lambda$ hyperons using the CLAS detector at Jefferson Laboratory. Physical Review D, 2015, 92, .	4.7	15



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73	Beam Spin Asymmetry in Semi-Inclusive Electroproduction of Hadron Pairs. Physical Review Letters, 2021, 126, 062002.	7.8	9
74	Beam-spin asymmetry $\hat{\Sigma}$ for $\hat{\Sigma}^{\ast}$ hyperon photoproduction off the neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136985.	4.1	9
75	Measurement of the nuclear multiplicity ratio for $K^{\ast}$ hadronization at CLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 706, 26-31.	2.9	6
76	Induced polarization of $\Lambda(1116)$ in kaon electroproduction. Physical Review C, 2014, 90, .	2.9	8
77	Measurement of unpolarized and polarized cross sections for deeply virtual Compton scattering on the proton at Jefferson Laboratory with CLAS. Physical Review C, 2018, 98, .	2.9	8
78	Beam-target helicity asymmetry E in $K^{\ast}$ and $K^{\ast}0$ photoproduction on the neutron. Physical Review C, 2018, 98, .	2.9	8
79	Beam-target helicity asymmetry E in $K^{\ast}$ photoproduction on the neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135662.	4.1	8
80	Measurement of the beam asymmetry $\hat{\Sigma}$ and the target asymmetry T in the photoproduction of $\eta$ mesons off the proton using CLAS at Jefferson Laboratory. Physical Review C, 2018, 97, .	2.9	7
81	Measurement of the beam asymmetry $\hat{\Sigma}$ and the target asymmetry T in the photoproduction of $\eta$ mesons off the proton using CLAS at Jefferson Laboratory. Physical Review C, 2018, 97, .	7.8	7
82	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
83	Measurement of charged-pion production in deep-inelastic scattering off nuclei with the CLAS detector. Physical Review C, 2022, 105, .	2.9	7
84	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
85	Publisher's Note: Exclusive $\eta$ production at $W > 2$ GeV. Physical Review C, 2021, 103, 044907.	2.9	6
86	Measurement of target and double-spin asymmetries for the $\eta$ meson on the proton for photon energies from 1.102 to 1.862 GeV [Phys. Rev. C <b>88</b> , 065203 (2013)]. Physical Review C, 2014, 89, .	2.9	6
87	Measurement of target and double-spin asymmetries for the $\eta$ meson in the nucleon resonance region at low $Q^2$ . Physical Review C, 2016, 94, .	2.9	6
88	Double $K^{\ast}$ photoproduction off the proton at CLAS. Physical Review C, 2018, 97, .	2.9	6
89	Model selection for $K^{\ast}$ photoproduction within an isobar model. Physical Review C, 2021, 104, .	2.9	6
90	Hard Two-Body Photodisintegration of $^3\text{He}$ . Physical Review Letters, 2013, 110, 242301.	7.8	5



#	ARTICLE	IF	CITATIONS
91	Transverse polarization of $\pi^0$ photoproduction on a hydrogen target in CLAS. Physical Review C, 2013, 87, .	2.9	5
92	Determination of the beam-spin asymmetry of deuteron photodisintegration in the energy region $E^3 = 1.1$ to $2.3$ GeV. Physical Review C, 2015, 91, .	2.9	5
93	Target and beam-target spin asymmetries in exclusive $\pi^0$ and $\pi^+$ electroproduction with 1.6- to 5.7-GeV electrons. Physical Review C, 2016, 94, .	2.9	5
94	Beam-target double-spin asymmetry in quasielastic electron scattering off the deuteron with CLAS. Physical Review C, 2017, 95, .	2.9	5
95	Measurement of the beam spin asymmetry of $\pi^0$ photoproduction from threshold to $W = 3.3$ GeV. Physical Review C, 2018, 98, .	2.9	5
96	First measurement of direct photoproduction of the $\pi^0$ meson on the proton. Physical Review C, 2020, 102, .	4.1	5
97	Multidimensional, High Precision Measurements of Beam Single Spin Asymmetries in Semi-inclusive $\pi^0$ Electroproduction off Protons in the Valence Region. Physical Review Letters, 2022, 128, 062005.	7.8	5
98	Target and beam-target spin asymmetries in exclusive pion electroproduction for $Q^2 > 1$ GeV <sup>2</sup> . I. $e\hat{p}\hat{\pi}^0 e\hat{p} + n$ . Physical Review C, 2017, 95, .	2.9	4
99	Target and beam-target spin asymmetries in exclusive pion electroproduction for $Q^2 > 1$ GeV <sup>2</sup> . II. $e\hat{p}\hat{\pi}^+ e\hat{p} + n$ . Physical Review C, 2017, 95, .	2.9	4
100	Photoproduction of $\pi^0$ meson pairs on the proton. Physical Review D, 2018, 98, .	2.9	4
101	Differential cross sections for $\Lambda(1520)$ using photoproduction at CLAS. Physical Review C, 2021, 103, .	2.9	4
102	Single $\pi^0$ production off neutrons bound in deuteron with linearly polarized photons. European Physical Journal A, 2021, 57, 205.	2.5	4
103	Application programmes at the Scottish Centre for the Application of Plasma-based Accelerators (SCAPA). , 2019, , .		4
104	Beam-recoil transferred polarization in $\pi^0$ electroproduction in the nucleon resonance region with CLAS12. Physical Review C, 2022, 105, .	2.9	4
105	Beam-recoil transferred polarization in $\pi^0$ electroproduction in the nucleon resonance region with CLAS12. Physical Review C, 2022, 105, .	2.9	4
106	Beam-recoil transferred polarization in $\pi^0$ electroproduction in the nucleon resonance region with CLAS12. Physical Review C, 2022, 105, .	2.9	4
107	Beam-recoil transferred polarization in $\pi^0$ electroproduction in the nucleon resonance region with CLAS12. Physical Review C, 2022, 105, .	2.9	4

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109	Photoproduction of the $f_2(1270)$ Meson Using the CLAS Detector. Physical Review Letters, 2021, 126, 082002.	7.8	3
110	Upper limits for the photoproduction cross section for the $\Lambda^*(1860)$ pentaquark state off the deuteron. Physical Review C, 2012, 85, .	2.9	2
111	Near-threshold neutral pion electroproduction at high momentum transfers and generalized form factors. Physical Review C, 2013, 87, .	2.9	2
112	Semi-inclusive $\Lambda^0$ target and beam-target asymmetries from 6 GeV electron scattering with CLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 662-667.	4.1	2
113	First measurement of $\Lambda^*$ polarization in photoproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 783, 280-286.	4.1	2
114	Measurement of deeply virtual Compton scattering off $^4\text{He}$ with the CEBAF Large Acceptance Spectrometer at Jefferson Lab. Physical Review C, 2021, 104, .	2.9	2
115	Photoproduction of $\Lambda$ mesons off the proton for $1.2 < E^3 < 4.7 \text{ GeV}$ using CLAS at Jefferson Laboratory. Physical Review C, 2020, 102, .	2.9	2
116	Study of the Few Nucleon Systems at CLAS. Few-Body Systems, 2017, 58, 1.	1.5	1
117	Measurement of the beam-helicity asymmetry in photoproduction of $\Lambda^0$ pairs on carbon, aluminum, and lead. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 802, 135243.	4.1	1
118	Polarized structure function $f_3$ from $\Lambda^0$ electroproduction data in the resonance region at $Q^2 = 0.1 - 0.2 \text{ GeV}^2$ . Physical Review C, 2022, 105, .	2.9	1
119	Photodisintegration of Light Nuclei. Few-Body Systems, 2014, 55, 899-902.	1.5	0
120	Study of the Hyperon-Nucleon (YN) Interaction in Exclusive $\Lambda$ Photoproduction off the Deuteron. EPJ Web of Conferences, 2016, 113, 08020.	0.3	0
121	Study of the Hyperon-Nucleon Interaction in Exclusive $\Lambda$ Photoproduction off the Deuteron. EPJ Web of Conferences, 2016, 113, 07002.	0.3	0
122	Polarization observables in few nucleon systems with CLAS. Journal of Physics: Conference Series, 2017, 938, 012016.	0.4	0
123	Studies of $\Lambda$ Interaction Through Polarization Observables for Final-State Interactions in the $\gamma d \rightarrow K^+ \Lambda n$ Reaction. , 2017, , .		0
124	Determination of the Polarization Observables $C_x$ , $C_z$ , and $P_y$ for the Quasi-Free Mechanism in the Reaction $\gamma d \rightarrow K^+ \Lambda n$ . Few-Body Systems, 2018, 59, 1.	1.5	0
125	Studies of Lambda-neutron interaction through polarization observables for final-state interactions in exclusive Lambda photoproduction off the deuteron. , 2016, , .		0
126	Study of Initial- and Final-state effects through polarisation Observables. , 2018, , .		0



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127	Study of the hyperon-nucleon interaction via final-state interactions in exclusive reactions. SciPost Physics Proceedings, 2020, , .	0.4	0