

Lucilla Lanza

List of Publications by Year in descending order

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papers

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430874

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all docs

69
docs citations

69
times ranked

817
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	Measurement of the proton spin structure at long distances. Nature Physics, 2021, 17, 736-741.	2.9	1
4	Beam-spin asymmetry $\hat{\Sigma}$ for $\hat{\Sigma}^*$ hyperon photoproduction off the neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136985.	4.1	9
5	Beam-recoil transferred polarization in K^+ electroproduction in the nucleon resonance region with CLAS12. Physical Review C, 2022, 105, .	2.9	0
6	Differential cross sections for $\hat{\rho}(1520)$ using photoproduction at CLAS. Physical Review C, 2021, 103, .	2.9	4
7	Beam Spin Asymmetry in Semi-Inclusive Electroproduction of Hadron Pairs. Physical Review Letters, 2021, 126, 062002.	7.8	9
8	Photoproduction of the $f_2(1270)$ Meson Using the CLAS Detector. Physical Review Letters, 2021, 126, 082002.	7.8	3
9	Observation of Beam Spin Asymmetries in the Process $e^+p \rightarrow e^+p\pi^0$ with CLAS12. Physical Review Letters, 2021, 126, 152501.	7.8	13
10	Measurement of the proton spin structure at long distances. Nature Physics, 2021, 17, 736-741.	16.7	14
11	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
12	Light dark matter searches with positrons. European Physical Journal A, 2021, 57, 1.	2.5	9
13	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
14	An experimental program with high duty-cycle polarized and unpolarized positron beams at Jefferson Lab. European Physical Journal A, 2021, 57, 1.	2.5	17
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	First Measurement of Timelike Compton Scattering. Physical Review Letters, 2021, 127, 262501.	7.8	19
18	Beam-target helicity asymmetry E in $K^+\hat{\Sigma}^*$ photoproduction on the neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 808, 135662.	4.1	8

#	ARTICLE	IF	CITATIONS
19	Extraction of Beam-Spin Asymmetries from the Hard Exclusive $\gamma p \rightarrow \pi^0 p$ Channel off Protons in a Wide Range of Kinematics. <i>Physical Review Letters</i> , 2020, 125, 182001.	7.8	13
20	First measurement of direct photoproduction of the η meson on the proton. <i>Physical Review C</i> , 2020, 102, .	2.9	5
21	Probing the core of the strong nuclear interaction. <i>Nature</i> , 2020, 578, 540-544.	27.8	65
22	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
23	The CLAS12 Forward Tagger. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2020, 959, 163475.	1.6	13
24	Exclusive η electroproduction off protons in the resonance region at photon virtualities $0.4 \text{ GeV}^2 \leq Q^2 \leq 1 \text{ GeV}^2$. <i>Physical Review C</i> , 2020, 101, .	2.9	10
25	Photoproduction of η mesons off the proton for $1.2 < E_\gamma < 4.7 \text{ GeV}$ using CLAS at Jefferson Laboratory. <i>Physical Review C</i> , 2020, 102, .	2.9	2
26	KY electroproduction at CLAS12. <i>EPJ Web of Conferences</i> , 2020, 241, 01011.	0.3	0
27	Exploring the Structure of the Bound Proton with Deeply Virtual Compton Scattering. <i>Physical Review Letters</i> , 2019, 123, 032502.	7.8	15
28	Measurement of nuclear transparency ratios for protons and neutrons. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 797, 134792.	4.1	15
29	First results on nucleon resonance photocouplings from the $\gamma p \rightarrow \pi^0 p$ reaction. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 788, 371-379.	4.1	20
30	Measurement of the beam spin asymmetry of $\gamma p \rightarrow \pi^0 p$. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 789, 426-431.	4.1	5
31	Direct Observation of Proton-Neutron Short-Range Correlation Dominance in Heavy Nuclei. <i>Physical Review Letters</i> , 2019, 122, 172502.	7.8	80
32	First Measurements of the Double-Polarization Observables F_2 , P , and H in $\gamma p \rightarrow \pi^0 p$. <i>Physical Review Letters</i> , 2019, 122, 172502.	7.8	7
33	Modified structure of protons and neutrons in correlated pairs. <i>Nature</i> , 2019, 566, 354-358.	27.8	105
34	Measurement of the Dependence of the Deuteron Spin Structure Function g_1 and its Moments at Low Q^2 . <i>Physical Review C</i> , 2018, 98, .	7.8	16
35	Measurement of unpolarized and polarized cross sections for deeply virtual Compton scattering on the proton at Jefferson Laboratory with CLAS. <i>Physical Review C</i> , 2018, 98, .	2.9	8
36	Beam-target helicity asymmetry E in $K_0^* \rightarrow K_0^* \gamma$ photoproduction on the neutron. <i>Physical Review C</i> , 2018, 98, .	2.9	8

#	ARTICLE	IF	CITATIONS
37	Photoproduction of $\Lambda(1520)$ from threshold to $W = 3.3$ GeV. Physical Review C, 2018, 98, .	2.9	5
38	Photoproduction of $K^*_1(1270)$ meson pairs on the proton. Physical Review D, 2018, 98, .	7.8	42
39	Center of Mass Motion of Short-Range Correlated Nucleon Pairs studied via the $\Lambda(1520)$ photoproduction off the proton at CLAS. Physical Review C, 2018, 97, .	2.9	0
40	Double $K^*_1(1270)$ photoproduction off the proton at CLAS. Physical Review C, 2018, 97, .	2.9	0
41	Semi-inclusive $\Lambda(1520)$ 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
42	Hard exclusive pion electroproduction at backward angles with CLAS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 780, 340-345.	4.1	14
43	Measurement of the beam asymmetry Σ and the target asymmetry T in the photoproduction of $\Lambda(1520)$ mesons off the proton using CLAS at Jefferson Laboratory. Physical Review C, 2018, 97, .	2.9	7
44	Probing high-momentum protons and neutrons in neutron-rich nuclei. Nature, 2018, 560, 617-621.	27.8	127
45	Measurements of the $\Lambda(1520)$ cross section with the CLAS detector for $0.4 \text{ GeV}^2 < Q^2 < 1.0 \text{ GeV}^2$ and $1.3 \text{ GeV} < W < 1.825 \text{ GeV}$. Physical Review C, 2018, 98, .	2.9	14
46	Differential cross section for $\Lambda(1520)$ using CLAS at Jefferson Lab. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 646-651.	4.1	3
47	Exclusive photoproduction of $\Lambda(1520)$ up to large values of Mandelstam variables s and t and u with CLAS. Physical Review C, 2017, 95, .	2.9	5
48	Beam-target double-spin asymmetry in quasielastic electron scattering off the deuteron with CLAS. Physical Review C, 2017, 95, .	2.9	5
49	Differential cross sections and polarization observables from CLAS $\Lambda(1520)$ 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
50	Target and double spin asymmetries of deeply virtual $\Lambda(1520)$ 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
51	Target and beam-target spin asymmetries in exclusive pion electroproduction for $Q^2 < 2$ GeV ² . Physical Review C, 2017, 95, .	2.9	4
52	Differential cross section measurements for $\Lambda(1520)$ p above the first nucleon resonance region. Physical Review C, 2017, 96, .	2.9	19
53	Measurements of $\Lambda(1520)$ cross sections with CLAS at $Q^2 < 1.40$ GeV ² . Physical Review C, 2017, 96, .	2.9	29
54	Beam-Target Helicity Asymmetry for $\Lambda(1520)$ p in the N^* Resonance Region. Physical Review Letters, 2017, 118, 242002.	7.8	26

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55	Photon beam asymmetry $\hat{\Sigma}$ for $\hat{\Lambda}$ and $\hat{\Lambda}^2$ photoproduction from the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 213-221.	4.1	32
56	Exclusive $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle \hat{\Lambda} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ electroproduction at $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle W \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \> \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:math} \rangle$ GeV with CLAS and transversely generalized parton distributions. Physical Review C, 2017, 95, .	2.9	16
57	$\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mmultiscripts} \rangle \langle \text{mml:mi} \rangle \text{He} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mprescripts} \rangle \langle \text{mml:math} \rangle ;$	7.8	30
58	Measurement of the differential and total cross sections of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{\Lambda}^3 \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle d \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\Lambda}^2 \langle \text{mml:math} \rangle$ reaction within the resonance region. Physical Review C, 2017, 96, .	2.9	26
59	Measurement of the helicity asymmetry $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{\Lambda}^3 \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \hat{\Lambda}^2 \langle \text{mml:math} \rangle$ for $E = 1.152$ to 1.876 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 112, .	4.1	11
60	Target and beam-target spin asymmetries in exclusive pion electroproduction for $Q^2 > 1 \text{ GeV}^2$. I. $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{\Lambda}^2 \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\Lambda}^2 \langle \text{mml:math} \rangle$. Physical Review C, 2017, 95, .	2.9	4
61	Measurement of two-photon exchange effect by comparing elastic $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle e \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\Lambda}^2 \langle \text{mml:math} \rangle$ cross sections. Physical Review C, 2017, 95, .	2.9	13
62	Measurement of the helicity asymmetry $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mi} \rangle E \langle \text{mml:math} \rangle$ in $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \hat{\Lambda}^2 \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\Lambda}^2 \langle \text{mml:math} \rangle$ photoproduction. Physical Review C, 2017, 96, .	2.9	13
63	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
64	Measurement of target and double-spin asymmetries for the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:mi} \rangle e \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\Lambda}^2 \langle \text{mml:math} \rangle$ photoproduction of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\Lambda}^2 \langle \text{mml:math} \rangle$ hyperons using linearly polarized photons. Physical Review C, 2016, 93, .	2.9	6
65	Photoproduction of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\Lambda}^2 \langle \text{mml:math} \rangle$ hyperons using linearly polarized photons. Physical Review C, 2016, 93, .	2.9	46
66	Photoproduction of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\Lambda}^2 \langle \text{mml:math} \rangle$ hyperons using linearly polarized photons. Physical Review C, 2016, 93, .	2.9	46
67	Target and beam-target spin asymmetries in exclusive $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mover} \rangle \langle \text{mml:mi} \rangle p \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\Lambda}^2 \langle \text{mml:math} \rangle$ hyperons using linearly polarized photons. Physical Review C, 2016, 94, .	2.9	5
68	Assessing the performance under ionising radiation of lead tungstate scintillators for EM calorimetry in the CLAS12 Forward Tagger. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 789, 101-108.	1.6	3
69	Extended calibration range for prompt photon emission in ion beam irradiation. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2014, 745, 114-118.	1.6	7