

Lucilla Lanza

List of Publications by Year in descending order

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69
papers

1,282
citations

430874

18
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395702

33
g-index

69
all docs

69
docs citations

69
times ranked

817
citing authors

#	ARTICLE	IF	CITATIONS
1	Probing high-momentum protons and neutrons in neutron-rich nuclei. Nature, 2018, 560, 617-621.	27.8	127
2	Modified structure of protons and neutrons in correlated pairs. Nature, 2019, 566, 354-358.	27.8	105
3	Direct Observation of Proton-Neutron Short-Range Correlation Dominance in Heavy Nuclei. Physical Review Letters, 2019, 122, 172502.	7.8	80
4	The CLAS12 Spectrometer at Jefferson Laboratory. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 959, 163419.	1.6	75
5	Probing the core of the strong nuclear interaction. Nature, 2020, 578, 540-544.	27.8	65
6	Photoproduction of Λ and Σ and Λ hyperons using linearly polarized photons. Physical Review C, 2016, 93, 044607.	2.9	46
7	Center of Mass Motion of Short-Range Correlated Nucleon Pairs studied via the $A(e, e'p)$ reaction. Physical Review C, 2017, 95, 044607.	7.8	42
8	Measurement of two-photon exchange effect by comparing elastic e, e' cross sections. Physical Review C, 2017, 95, 044607.	7.8	42
9	Photon beam asymmetry Σ for Λ and Σ photoproduction from the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 771, 213-221.	4.1	32
10	First Exclusive Measurement of Deeply Virtual Compton Scattering off ^4He . Physical Review Letters, 2017, 119, 202004.	7.8	30
11	Toward the 3D Tomography of Nuclei. Physical Review Letters, 2017, 119, 202004.	7.8	30
12	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
13	Measurements of $e, e'p$ cross sections with CLAS at $1.40 < Q^2 < 1.60 \text{ GeV}^2$. Physical Review C, 2017, 96, .	2.9	29
14	Electron-beam energy reconstruction for neutrino oscillation measurements. Nature, 2021, 599, 565-570.	27.8	27
15	Photoproduction of the Λ and Σ hyperons. Physical Review C, 2016, 93, .	2.9	26
16	Beam-Target Helicity Asymmetry for Λ and Σ in the N^* Resonance Region. Physical Review Letters, 2017, 118, 242002.	7.8	26
17	Measurement of the differential and total cross sections of the Λ and Σ photoproduction reaction within the resonance region. Physical Review C, 2017, 96, .	2.9	26
18	First results on nucleon resonance photocouplings from the Λ reaction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 788, 371-379.	4.1	20
19	Differential cross section measurements for Λ above the first nucleon resonance region. Physical Review C, 2017, 96, .	2.9	19

#	ARTICLE	IF	CITATIONS
19	First Measurement of Timelike Compton Scattering. Physical Review Letters, 2021, 127, 262501.	7.8	19
20	$12C(e,e'pN)$ 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. photoproduction of γ	4.1	18
21	up to large values of Mandelstam variables s and t and Q^2 dependence of the Deuteron Spin Structure Function g_1^D and its Moments at Low Q^2 with CLAS.		
22	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
23	Exclusive electroproduction of η and η' mesons. Measurement of the Q^2 dependence of the Deuteron Spin Structure Function g_1^D and its Moments at Low Q^2 with CLAS.	2.9	16
24	Dependence of the Deuteron Spin Structure Function g_1^D and its Moments at Low Q^2 with CLAS.	7.8	16
25	Exploring the Structure of the Bound Proton with Deeply Virtual Compton Scattering. Physical Review Letters, 2019, 123, 032502.	7.8	15
26	Measurement of nuclear transparency ratios for protons and neutrons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 797, 134792.	4.1	15
27	Differential cross sections and polarization observables from CLAS γ 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
28	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
29	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
30	Measurements of the $\hat{\Gamma}^3 \nu p \hat{\Gamma}^1 p \hat{\Gamma}^2 \bar{\nu} + \bar{\nu} \hat{\Gamma}^2 \nu$ 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
31	Measurement of the proton spin structure at long distances. Nature Physics, 2021, 17, 736-741.	16.7	14
32	Measurement of the helicity asymmetry E in γ photoproduction. Physical Review C, 2017, 96, .	2.9	13
33	Extraction of Beam-Spin Asymmetries from the Hard Exclusive Channel off Protons in a Wide Range of Kinematics. Physical Review Letters, 2020, 125, 182001.	7.8	13
34	The CLAS12 Forward Tagger. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2020, 959, 163475.	1.6	13
35	Observation of Beam Spin Asymmetries in the Process $e p \rightarrow e' p \gamma$ photoproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 112-112.	7.8	13
36	Photon beam asymmetry in the reaction $e p \rightarrow e' p \gamma$ for $E = 1.152$ to 1.876 GeV . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 773, 112-112.	4.1	11

#	ARTICLE	IF	CITATIONS
37	Exclusive ρ^0 electroproduction off protons in the resonance region at photon virtualities $0.4\text{GeV}^2 \leq Q^2 \leq 1\text{GeV}^2$. Physical Review C, 2020, 101, .	2.9	10
38	Beam Spin Asymmetry in Semi-Inclusive Electroproduction of Hadron Pairs. Physical Review Letters, 2021, 126, 062002.	7.8	9
39	Light dark matter searches with positrons. European Physical Journal A, 2021, 57, 1.	2.5	9
40	Beam-spin asymmetry Σ for Λ^0 hyperon photoproduction off the neutron. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 827, 136985.	4.1	9
41	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
42	Beam-target helicity asymmetry E in K^0 and $K^0 \rho^0$ photoproduction on the neutron. Physical Review C, 2018, 98, .	2.9	8
43	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
44	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
45	Measurement of the beam asymmetry Σ and the target asymmetry T in the photoproduction of ρ^0 mesons off the proton using CLAS at Jefferson Laboratory. Physical Review C, 2018, 97, .	2.9	7
46	First Measurements of the Double-Polarization Observables F_L , P , and H_L in ρ^0 Meson Photoproduction off the Proton. Physical Review C, 2018, 97, .	7.8	7
47	Double polarisation observable G in ρ^0 meson photoproduction off the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 817, 136304.	4.1	7
48	Measurement of charged-pion production in deep-inelastic scattering off nuclei with the CLAS detector. Physical Review C, 2022, 105, .	2.9	7
49	Measurement of target and double-spin asymmetries for the ρ^0 meson photoproduction off the proton in the nucleon resonance region at low Q^2 . Physical Review C, 2016, 94, .	2.9	6
50	Double K_S^0 photoproduction off the proton at CLAS. Physical Review C, 2018, 97, .	2.9	6
51	Target and beam-target spin asymmetries in exclusive ρ^0 electroproduction with 1.6- to 5.7 GeV electrons. Physical Review C, 2016, 94, .	2.9	5
52	Beam-target double-spin asymmetry in quasielastic electron scattering off the deuteron with CLAS. Physical Review C, 2017, 95, .	2.9	5
53	Λ^0 photoproduction from threshold to $W < 3.3$ GeV. Physical Review C, 2018, 97, .	2.9	5
54	Measurement of the beam spin asymmetry of ρ^0 meson photoproduction off the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 789, 426-431.	4.1	5

#	ARTICLE	IF	CITATIONS
55	First measurement of direct photoproduction of the $\rho(770)^0$ meson on the proton. Physical Review C, 2020, 102, .	2.9	4
56	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
57	Target and beam-target spin asymmetries in exclusive pion electroproduction for $\rho(770)^0$. Physical Review C, 2017, 95, .	2.9	4
58	Target and beam-target spin asymmetries in exclusive pion electroproduction for $\rho(770)^0$. Physical Review C, 2017, 95, .	2.9	4
59	Photoproduction of $\rho(770)^0$ meson pairs on the proton. Physical Review D, 2018, 98, .	2.9	4
60	Differential cross sections for $\rho(1520)$ using photoproduction at CLAS. Physical Review C, 2021, 103, .	2.9	4
61	Beam-recoil transferred polarization in $\rho(770)^0$ electroproduction in the nucleon resonance region with CLAS12. Physical Review C, 2022, 105, .	2.9	4
62	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
63	Differential cross section for $\rho(770)^0$ using CLAS at Jefferson Lab. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 646-651.	4.1	3
64	Photoproduction of the $\rho(1270)$ Meson Using the CLAS Detector. Physical Review Letters, 2021, 126, 082002.	7.8	3
65	Semi-inclusive $\rho(770)^0$ 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
66	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
67	Photoproduction of $\rho(770)^0$ mesons off the proton for $1.2 < E < 4.7$ GeV using CLAS at Jefferson Laboratory. Physical Review C, 2020, 102, .	2.9	2
68	Polarized structure function $F_2^{\rho(770)^0}$ from $\rho(770)^0$ electroproduction data in the resonance region at CLAS. Physical Review C, 2022, 105, .	2.9	1
69	KY electroproduction at CLAS12. EPJ Web of Conferences, 2020, 241, 01011.	0.3	0