

# Luis

## List of Publications by Year in descending order

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97  
papers

1,895  
citations

257450

24  
h-index

265206

42  
g-index

100  
all docs

100  
docs citations

100  
times ranked

943  
citing authors

#	ARTICLE	IF	CITATIONS
1	Light-quark mass dependence of the nucleon axial charge and pion-nucleon scattering phenomenology. <i>Physical Review D</i> , 2022, 105, .	4.7	3
2	Weak kaon production off the nucleon and Watson's theorem. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2021, 817, 136349.	4.1	0
3	Recent highlights from GENIE v3. <i>European Physical Journal: Special Topics</i> , 2021, 230, 4449-4467.	2.6	34
4	Neutral-current weak pion production off the nucleon in covariant chiral perturbation theory. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2019, 794, 109-113.	4.1	12
5	Nucleon axial form factor from a Bayesian neural-network analysis of neutrino-scattering data. <i>Physical Review C</i> , 2019, 99, .	2.9	16
6	Neural network study of the nucleon axial form-factor. , 2019, , .		0
7	NuSTEC White Paper: Status and challenges of neutrino-nucleus scattering. <i>Progress in Particle and Nuclear Physics</i> , 2018, 100, 1-68.	14.4	206
8	Neutrino Interactions in the few-GeV region and the MiniBooNE anomaly. <i>Journal of Physics: Conference Series</i> , 2018, 1056, 012001.	0.4	1
9	Weak pion production off the nucleon in covariant chiral perturbation theory. <i>Physical Review D</i> , 2018, 98, .	4.7	14
10	Consistency between SU(3) and SU(2) covariant baryon chiral perturbation theory for the nucleon mass. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 766, 325-333.	4.1	6
11	Electromagnetic scaling functions within the Green's function Monte Carlo approach. <i>Physical Review C</i> , 2017, 96, .	2.9	13
12	Extraction of nucleon axial charge and radius from lattice QCD results using baryon chiral perturbation theory. <i>Physical Review D</i> , 2017, 96, .	4.7	25
13	A New Approach to Nuclear Form Factors for Direct Dark Matter Searches. <i>Nuclear and Particle Physics Proceedings</i> , 2016, 273-275, 414-418.	0.5	3
14	Watson's theorem and the $N \rightarrow N^* \pi$ transition. <i>Physical Review D</i> , 2016, 93, 074004.	4.7	31
15	Present Status of Single Pion Production in Neutrino-Nucleus Reactions. , 2016, , .		1
16	Neutrinos and Their Interactions in the Standard Model. <i>Acta Physica Polonica B, Proceedings Supplement</i> , 2016, 9, 669.	0.1	0
17	Photon emission in neutral current interactions at the T2K experiment. <i>Physical Review D</i> , 2015, 92, .	4.7	11
18	Single photon production induced by (anti)neutrino neutral current scattering on nucleons and nuclear targets. <i>AIP Conference Proceedings</i> , 2015, , .	0.4	2

#	ARTICLE	IF	CITATIONS
19	Weak production of strange particles and $\hat{1}$ mesons off the nucleon. AIP Conference Proceedings, 2015, , .	0.4	3
20	Weak production of strange particles off the nucleon. AIP Conference Proceedings, 2015, , .	0.4	0
21	Weak $\hat{1}$ production off the nucleon. AIP Conference Proceedings, 2015, , .	0.4	3
22	Neutrino induced one-pion production in the Delta region and Watson's theorem. AIP Conference Proceedings, 2015, , .	0.4	1
23	Photon emission in neutral current interactions with nucleons and nuclei. AIP Conference Proceedings, 2015, , .	0.4	0
24	Single photon events from neutral current interactions at MiniBooNE. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 740, 16-22.	4.1	23
25	Antineutrino induced $\hat{1}$ production off the proton. Physical Review C, 2015, 91, .	2.9	1405
26	Nucleon mass and pion-nucleon sigma term from a chiral analysis of lattice QCD world data. EPJ Web of Conferences, 2014, 73, 04015.	0.3	4
27	The nucleon mass and pion-nucleon sigma term from a chiral analysis of $N_f=2$ lattice QCD world data. EPJ Web of Conferences, 2014, 66, 06001.	0.3	0
28	Progress and open questions in the physics of neutrino cross sections at intermediate energies. New Journal of Physics, 2014, 16, 075015.	2.9	107
29	Photon emission in neutral-current interactions at intermediate energies. Physical Review C, 2014, 89, .	2.9	31
30	$N^*$ RESONANCES IN NEUTRINO INTERACTIONS. International Journal of Modern Physics Conference Series, 2014, 26, 1460111.	0.7	0
31	Charged kaon production by coherent scattering of neutrinos and antineutrinos on nuclei. Physical Review C, 2013, 87, .	2.9	9
32	Nucleon mass and pion-nucleon sigma term from a chiral analysis of lattice QCD data. Physical Review D, 2013, 88, .	4.7	61
33	Photon emission in (anti)neutrino neutral current interactions with nuclei. , 2013, , .		0
34	MASSES AND MAGNETIC MOMENTS OF GROUND-STATE BARYONS IN COVARIANT BARYON CHIRAL PERTURBATION THEORY. , 2013, , .		0
35	$\hat{1}$ scattering in relativistic baryon chiral perturbation theory revisited. , 2012, , .		0
36	Neutrino interactions: Challenges in the current theoretical picture. Nuclear Physics, Section B, Proceedings Supplements, 2012, 229-232, 167-173.	0.4	5

#	ARTICLE	IF	CITATIONS
37	$\langle \text{mml:math xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ display}=\text{"inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{Ï€} \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle \text{N} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ scattering in relativistic baryon chiral perturbation theory reexamined. Physical Review C, 2011, 83, .	2.9	27
38	2p2h or not 2p2h?. AIP Conference Proceedings, 2011, , .	0.4	1
39	Review of weak coherent pion production. AIP Conference Proceedings, 2011, , .	0.4	6
40	Theoretical highlights on neutrino-nucleus interactions: current challenges. , 2011, , .		1
41	GiBUU and Neutrino-Nucleus scattering. , 2011, , .		0
42	Hadron resonances generated from the dynamics of the lightest scalar ones. Nuclear Physics, Section B, Proceedings Supplements, 2010, 207-208, 188-191.	0.4	0
43	Properties of hyperons in chiral perturbation theory. Nuclear Physics A, 2010, 835, 337-341.	1.5	3
44	Lowest-lying spin-1/2 and spin-3/2 baryon magnetic moments in chiral perturbation theory. Chinese Physics C, 2010, 34, 1307-1311.	3.7	3
45	Pion production in neutrino interactions with nuclei. , 2010, , .		6
46	Theoretical highlights of neutrino-nucleus interactions. , 2010, , .		3
47	$\text{The} \langle \text{mml:math xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"} \text{ display}=\text{"inline"} \rangle \langle \text{mml:mi} \rangle \text{Ï€} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \text{ stretchy}=\text{"false"} \rangle \langle \text{mml:mn} \rangle 1020 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 347 Td (stretchy}=\text{"false"} \rangle \langle \text{mml:mn} \rangle 980 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle \text{Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 327 Td (stretchy}=\text{"false"} \rangle$	4.7	11
48	Neutrino-induced pion production at energies relevant for the MiniBooNE and K2K experiments. Physical Review C, 2009, 79, .	2.9	29
49	Electron- and neutrino-nucleus scattering from the quasielastic to the resonance region. Physical Review C, 2009, 79, .	2.9	126
50	Measurement of the $\nu$ [sub $\hat{1}$ / <sub>4</sub> ] - CCQE cross section in the SciBooNE experiment. AIP Conference Proceedings, 2009, , .	0.4	26
51	Preliminary Results for CCQE Scattering with the MINOS Near Detector. , 2009, , .		22
52	Comparison of Models of Neutrino-Nucleus Interactions. AIP Conference Proceedings, 2009, , .	0.4	31
53	First Measurement of Muon Neutrino Charged Current Quasielastic (CCQE) Double Differential Cross Section. AIP Conference Proceedings, 2009, , .	0.4	17
54	Relativistic models for electron and neutrino-nucleus scattering. , 2009, , .		3

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55	Quasielastic Scattering at MiniBooNE Energies. , 2009, , .		4
56	Neutrino induced pion production at MiniBooNE and K2K energies. , 2009, , .		8
57	Neutrinos and duality. AIP Conference Proceedings, 2009, , .	0.4	6
58	The Path Forward: Neutrino Quasi-Elastic Scattering Discussion. , 2009, , .		2
59	Final State Interaction Models in Neutrino-Nucleus Cross Sections. AIP Conference Proceedings, 2009, , .	0.4	7
60	$\langle \text{Nucleon-to-Nucleon} \rangle$ axial transition form factors in relativistic baryon chiral perturbation theory. Physical Review D, 2008, 78, .	4.7	41
61	axial transition form factors in relativistic baryon chiral perturbation theory. Physical Review D, 2008, 78, .	4.7	24
62	CHIRAL PERTURBATION THEORY STUDY OF THE AXIAL $N \rightarrow \pi$ (1232) TRANSITION. Modern Physics Letters A, 2008, 23, 2246-2249.	1.2	1
63	NUCLEAR EFFECTS IN NEUTRINO INDUCED REACTIONS. Modern Physics Letters A, 2008, 23, 2321-2324.	1.2	0
64	Leading SU(3)-Breaking Corrections to the Baryon Magnetic Moments in Chiral Perturbation Theory. Physical Review Letters, 2008, 101, 222002.	7.8	107
65	IN-MEDIUM EFFECTS IN PHOTO- AND NEUTRINO-INDUCED REACTIONS ON NUCLEI. International Journal of Modern Physics A, 2007, 22, 416-423.	1.5	0
66	Influence of the nuclear medium on inclusive electron and neutrino scattering off nuclei. Physical Review C, 2007, 76, .	2.9	26
67	Neutral current coherent pion production. Physical Review C, 2007, 76, .	2.9	41
68	Charged current neutrino-induced coherent pion production. Physical Review C, 2007, 75, .	2.9	55
69	Neutrino-induced coherent pion production. AIP Conference Proceedings, 2007, , .	0.4	1
70	Neutrino Interactions with Nuclei. AIP Conference Proceedings, 2007, , .	0.4	2
71	In-medium Hadrons Properties, Interaction and Formation. Nuclear Physics A, 2007, 782, 166-174.	1.5	2
72	Neutral current neutrino-nucleus interactions at intermediate energies. Physical Review C, 2006, 74, .	2.9	43

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73	Modelling nuclear effects in neutrino scattering. Progress in Particle and Nuclear Physics, 2006, 57, 395-397.	14.4	2
74	Low-energy pions in nuclear matter and $\pi\pi$ photoproduction within a BUU transport model. European Physical Journal A, 2006, 29, 189-207.	2.5	28
75	Neutrino interactions with nucleons and nuclei at intermediate energies. AIP Conference Proceedings, 2006, , .	0.4	1
76	Pion-induced double-charge exchange reactions in the $\rho$ resonance region. Physical Review C, 2006, 74, .	2.9	22
77	Charged current neutrino-nucleus interactions at intermediate energies. Physical Review C, 2006, 73, .	2.9	110
78	In-medium properties of hadrons observables II. Progress in Particle and Nuclear Physics, 2005, 55, 71-90.	14.4	7
79	A dependence of inclusive pion double charge exchange. Physics of Atomic Nuclei, 2005, 68, 1283-1287.	0.4	1
80	LOW ENERGY DOUBLE-PION PHOTOPRODUCTION IN NUCLEI. International Journal of Modern Physics A, 2005, 20, 578-580.	1.5	3
81	Low-energy $\pi\pi$ photoproduction off nuclei. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 595, 216-222.	4.1	23
82	Inclusive pion double charge exchange on $^{16}\text{O}$ at $0.6 < \leq 1.1 \text{ GeV}$ . Nuclear Physics A, 2003, 723, 389-407.	1.5	9
83	Nuclear response functions for the $N \rightarrow \Delta$ transition. Nuclear Physics A, 2003, 724, 157-177.	1.5	17
84	$\rho$ meson propagation in a hot hadronic gas. Physical Review C, 2002, 65, .	2.9	42
85	The $\phi$ mean free path in hot hadronic matter. Journal of Physics G: Nuclear and Particle Physics, 2002, 28, 1527-1534.	3.6	3
86	Spectra of fast $\pi +$ mesons from the $\pi + A \rightarrow \pi + X$ reaction on oxygen and lithium nuclei at 0.59 GeV. Physics of Atomic Nuclei, 2002, 65, 229-235.	0.4	1
87	The ITEP study of inclusive pion double charge exchange: Experiment and interpretation. AIP Conference Proceedings, 2001, , .	0.4	0
88	Influence of nucleonic motion in relativistic Fermi gas inclusive responses. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 497, 214-220.	4.1	8
89	Charged current weak production of the $\rho$ resonance. Nuclear Physics A, 2000, 663-664, 837c-840c.	1.5	4
90	$\pi/2 \rightarrow \pi/4 + \rho$ reaction and axial vector $N \rightarrow \rho$ coupling. Physical Review C, 1999, 59, 3386-3392.	2.9	61

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91	The role of the Roper resonance in $np \rightarrow d(\pi^0)$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 452, 207-213.	4.1	36
92	Double Pion Production Reactions. Few-Body Systems, 1999, , 275-283.	0.2	2
93	Theoretical study of the $NN \rightarrow NN\pi\pi$ reaction. Nuclear Physics A, 1998, 633, 519-543.	1.5	104
94	Charged current weak electroproduction of the $\rho^0$ resonance. Physical Review C, 1998, 57, 2693-2699.	2.9	38
95	The imaginary part of the nucleon self-energy in hot nuclear matter. Nuclear Physics A, 1996, 606, 407-420.	1.5	5
96	Meson exchange currents in pion double charge exchange at high energies. Journal of Physics G: Nuclear and Particle Physics, 1996, 22, L45-L49.	3.6	7
97	Neutrino interactions with matter and the MiniBooNE anomaly. European Physical Journal: Special Topics, 0, , 1.	2.6	10