

Luis Roca

List of Publications by Year in descending order

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Version: 2024-02-01

108
papers

2,303
citations

159585

30
h-index

223800

46
g-index

110
all docs

110
docs citations

110
times ranked

775
citing authors

#	ARTICLE	IF	CITATIONS
1	Low lying axial-vector mesons as dynamically generated resonances. Physical Review D, 2005, 72, .	4.7	204
2	LHCb pentaquark as a Λ_c^+ \bar{D}^0 bound state. Physical Review D, 2015, 92, .	4.7	185
3	Hidden gauge formalism for the radiative decays of axial-vector mesons. Physical Review D, 2009, 79, .	4.7	106
4	Weak decays of heavy hadrons into dynamically generated resonances. International Journal of Modern Physics E, 2016, 25, 1630001.	1.0	100
5	Mass dependence of inclusive nuclear \bar{K}^0 photoproduction. Nuclear Physics A, 2004, 733, 130-141.	1.5	75
6	Description of the Λ_c^+ \bar{K}^0 bound state. Physical Review D, 2015, 92, .	4.7	63
7	obtained from Λ_c^+ \bar{K}^0 bound state. Physical Review D, 2015, 92, .	2.9	59
8	The role of $\Lambda(1700)$ excitation and \bar{K}^0 production in double pion photoproduction. Nuclear Physics A, 2001, 695, 295-327.	1.5	58
9	Isospin 0 and 1 resonances from Λ_c^+ \bar{K}^0 photoproduction data. Physical Review C, 2013, 88, .	1.5	58
10	Unitary chiral dynamics in decays and the role of scalar mesons. Nuclear Physics A, 2004, 744, 127-155.	1.5	57
11	Clues for the existence of two $K_1(1270)$ resonances. Physical Review D, 2007, 75, .	4.7	57
12	Unitary coupled channel analysis of the $\Lambda(1520)$ resonance. Physical Review C, 2006, 73, .	2.9	53
13	The \bar{K}^0 meson in a nuclear medium through two pion photoproduction. Nuclear, Elementary Particle and High-Energy Physics, 2002, 541, 77-86.	4.1	52
14	Predictions for the Λ_c^+ \bar{K}^0 bound state. European Physical Journal C, 2015, 75, 218.	3.9	52
15	\bar{K}^0 meson width in the medium from proton induced \bar{K}^0 production in nuclei. Physical Review C, 2005, 71, .	2.9	48
16	Improved dispersion relations for Λ_c^+ \bar{K}^0 bound state. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 659, 201-208.	4.1	47
17	Sequential vector and axial-vector meson exchange and chiral loops in radiative phi decay. Nuclear Physics A, 2003, 729, 743-768.	1.5	46
18	Scattering of unstable particles in a finite volume: The case of Λ_c^+ \bar{K}^0 scattering and the Λ_c^+ \bar{K}^0 bound state. Physical Review D, 2015, 92, .	4.7	42

#	ARTICLE	IF	CITATIONS
19	Dynamical generation of pseudoscalar resonances. Physical Review D, 2010, 82, . Charm-beauty meson bound states from $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle B \langle \text{mml:mi} \rangle \langle \text{mml:mo} \text{stretchy="false"} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mi} \rangle B \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle * \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mo} \rangle$	4.7	41
20	$\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle D \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle * \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:mo} \rangle$	4.7	41
21	$\hat{\Gamma} \hat{\Gamma}^0 \hat{\Gamma}^3$ decay within a chiral unitary approach. Physical Review D, 2003, 67, .	4.7	40
22	Scalar radius of the pion and zeros in the form factor. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 651, 139-146.	4.1	36
23	Two photons into $\hat{\Gamma}^0 \hat{\Gamma}^0$. European Physical Journal A, 2008, 37, 15-32.	2.5	35
24	Nature of the axial-vector mesons from their N_c behavior within the chiral unitary approach. European Physical Journal A, 2009, 39, 81-87.	2.5	35
25	Momentum dependence of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \hat{\Gamma} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ -meson nuclear transparency. Physical Review C, 2012, 85, .	2.9	34
26	On the nature of the $\hat{\Gamma}$ and $\hat{\Gamma}^0$ from their behavior in chiral dynamics. Nuclear Physics A, 2008, 809, 65-87.	1.5	33
27	Decay of axial-vector mesons into $V P$ and $P \hat{\Gamma}^3$. Physical Review D, 2004, 70, .	4.7	32
28	Structure of the $\hat{\Gamma}(1405)$ baryon resonance from its large N_c behavior. Physical Review D, 2008, 77, .	4.7	32
29	Nature of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msubsup} \rangle \langle \text{mml:mi} \rangle K \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle * \langle \text{mml:mo} \rangle \langle \text{mml:msubsup} \rangle \langle \text{mml:mo} \rangle$	4.7	32
30	Meson loops in the $f_0(980)$ and $a_0(980)$ radiative decays into $\hat{\Gamma}, \hat{\Gamma}^0$. European Physical Journal A, 2008, 36, 73-84.	2.5	31
31	Beam-Helicity Asymmetries in Double-Pion Photoproduction off the Proton. Physical Review Letters, 2009, 103, 052002.	7.8	30
32	Isospin violation in $\hat{\Gamma} \hat{\Gamma}^0 \hat{\Gamma}^3$ decay and the $f_0 \hat{\Gamma}^0$ mixing. Physical Review D, 2013, 88, .	4.7	29
33	A-dependence of the $\hat{\Gamma}^3$ - and p -induced production of the $\hat{\Gamma}(1520)$ from nuclei. European Physical Journal A, 2006, 28, 139-145.	2.5	24
34	Finite volume treatment of $\hat{\Gamma} \hat{\Gamma}^0$ scattering and limits to phase shifts extraction from lattice QCD. Journal of High Energy Physics, 2012, 2012, 1.	4.7	24
35	Quantum loops in radiative decays of the $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle a \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ and $\langle \text{mml:math} \text{xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si2.gif" overflow="scroll"} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle b \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:math} \rangle$ axial-vector mesons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics,	4.1	21
36	Few-Body Systems Consisting of Mesons. Few-Body Systems, 2020, 61, 1.	1.5	19

#	ARTICLE	IF	CITATIONS
37	Role of meson loops in the $\Lambda(1520)$ resonance in proton-induced production. European Physical Journal A, 2006, 27, 373-380.	4.7	11
38	Study of reactions disclosing hidden charm pentaquarks with or without strangeness. Nuclear Physics A, 2016, 954, 371-392.	1.5	18
39	Role of a triangle singularity in the $\Lambda(1520)$ decay of $N(1700)(3/2^+)$. Physical Review C, 2017, 95, .	2.9	18
40	Binding of the $\Lambda(1520)$ resonance in proton-induced production. European Physical Journal A, 2006, 27, 373-380.	4.7	18
41	Helicity asymmetries in double pion photoproduction on the proton. Nuclear Physics A, 2005, 748, 192-205.	1.5	17
42	Unveiling the $\Lambda(1520)$ resonance in proton-induced production. European Physical Journal A, 2006, 27, 373-380.	4.7	17
43	On the hidden charm pentaquarks in $\Lambda_b \rightarrow J/\psi K^- p$ decay. European Physical Journal C, 2016, 76, 1.	3.9	16
44	Unveiling the $\Lambda(1520)$ resonance in proton-induced production. Physical Review D, 2008, 77, .	4.7	15
45	Composite nature of the $\Lambda(1520)$ resonance in proton-induced production. Physical Review C, 2014, 90, .	4.7	15
46	Triangle mechanism in $\Lambda(1520)$ decay. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 782, 332-338.	4.1	15
47	Pseudotensor mesons as three-body resonances. Physical Review D, 2011, 84, .	4.7	13
48	$\Lambda(1520)$ decay into a pseudoscalar and an axial-vector meson. Physical Review D, 2019, 99, .	4.7	13
49	Scalar resonances in the $D \rightarrow K^* K$ decay. Physical Review D, 2021, 103, .	4.7	13
50	Radiative decay into $\Lambda(1520)$ of the low lying axial-vector mesons. Physical Review D, 2008, 77, .	4.7	12
51	Discerning the two $K_1(1270)$ poles in $D_0 \rightarrow \pi^+ \pi^- VP$ decay. Physical Review D, 2019, 100, .	4.7	12
52	Testing the nature of the $\Lambda(1520)$ -resonance in proton-induced production. European Physical Journal A, 2006, 27, 373-380.	2.5	11
53	Non-perturbative study of the light pseudoscalar masses in chiral dynamics. European Physical Journal A, 2007, 34, 371-386.	4.7	11
54	Non-perturbative study of the light pseudoscalar masses in chiral dynamics. European Physical Journal A, 2007, 34, 371-386.	2.5	10

#	ARTICLE	IF	CITATIONS
73	The two $\hat{\rho}(1405)$ poles from photoproduction data. EPJ Web of Conferences, 2015, 97, 00023.	0.3	2
74	Medium $\hat{\rho}$ meson effects in $\hat{\rho}$ photoproduction. Progress in Particle and Nuclear Physics, 2003, 50, 649-658.	14.4	1
75	$\hat{\rho} \rightarrow \hat{\rho} \hat{\rho}$ decay within a chiral unitary approach. AIP Conference Proceedings, 2004, , .	0.4	1
76	Polarization effects in photoemission disentangle the origin of the shadow bands in Bi-based superconductors. Physical Review B, 2005, 72, .	3.2	1
77	Recent developments in chiral dynamics of hadrons and hadrons in a nuclear medium. Nuclear Physics A, 2007, 782, 259-266.	1.5	1
78	Pseudoscalar meson masses in unitarized chiral perturbation theory. European Physical Journal A, 2007, 31, 534-536.	2.5	1
79	RECENT DEVELOPMENTS IN CHIRAL UNITARY DYNAMICS OF RESONANCES. Modern Physics Letters A, 2008, 23, 2201-2208.	1.2	1
80	S-wave $\hat{\rho} \rightarrow \hat{\rho}$ and $f_0(980) \rightarrow \hat{\rho}$. AIP Conference Proceedings, 2008, , .	0.4	1
81	Asymmetry observables in $e^+e^- \rightarrow \hat{\rho}^+ \hat{\rho}^-$ in the $\hat{\rho}$ -region within a chiral unitary approach. Physical Review D, 2010, 81, .	4.7	1
82	Scalar-Pseudoscalar scattering and pseudoscalar resonances. , 2011, , .		1
83	In-medium $\hat{\rho}$ -meson width extracted from proton-nucleus collisions. EPJ Web of Conferences, 2012, 37, 08009.	0.3	1
84	On the Double Pole Structure of the $\hat{\rho}(1405)$. , 2017, , .		1
85	Recent Developments in Chiral Unitary Theory and Triangle Singularities Involving Baryons. Few-Body Systems, 2018, 59, 1.	1.5	1
86	Inconsistency of the data on the $K_1(1270) \rightarrow K_0^*(1430)$ decay width. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2022, 824, 136827.	4.1	1
87	New contributions to $\hat{\rho} \rightarrow \hat{\rho} \hat{\rho}$ and $\hat{\rho} \rightarrow \hat{\rho} \hat{\rho}$ decays. AIP Conference Proceedings, 2004, , .	0.4	0
88	Photon energy and polarization dependence of the Fermi surface in optimally doped $\text{Bi}_2\text{Sr}_2\text{CaCu}_2\text{O}_8 + \hat{\rho}$ superconductors. Journal of Electron Spectroscopy and Related Phenomena, 2004, 137-140, 657-661.	1.7	0
89	RADIATIVE VECTOR MESON DECAY. International Journal of Modern Physics A, 2005, 20, 1901-1904.	1.5	0
90	Unitary chiral dynamics in J/ψ decay into VPP and the role of the scalar mesons. AIP Conference Proceedings, 2006, , .	0.4	0

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91	Unitary coupled channel study of the $\Lambda(1520)$ resonance. AIP Conference Proceedings, 2006, , .	0.4	0
92	Chiral dynamics of the $\Lambda(1520)$ in coupled channels tested in the $K^+p \rightarrow \Lambda^+ \bar{K}^0$ reaction. AIP Conference Proceedings, 2006, , .	0.4	0
93	Recent Developments in Chiral Dynamics of Hadrons and Hadrons in Nuclei. Progress of Theoretical Physics Supplement, 2007, 168, 543-551.	0.1	0
94	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
95	Axial-vector resonance in nuclear matter. , 2010, , .		0
96	Selected topics on Hadrons in Nuclei. Journal of Physics: Conference Series, 2011, 312, 022006.	0.4	0
97	Three Body Systems with Strangeness and Exotic Systems. Few-Body Systems, 2011, 50, 129-135.	1.5	0
98	Hadronic Particles made of Multi- $\bar{K}(770)$ Mesons. Few-Body Systems, 2011, 50, 191-194.	1.5	0
99	Hadronic particles made of multi- $\bar{K}(770)$ mesons. , 2011, , .		0
100	Recent results on $p\bar{p} \rightarrow p\bar{K}^0 + K^+ \bar{K}^0$ production and the momentum dependence of \bar{K}^0 -meson nuclear transparency. EPJ Web of Conferences, 2012, 36, 00011.	0.3	0
101	Momentum dependence of hadronic production of the \bar{K}^0 -meson and its width in nuclear matter. Hyperfine Interactions, 2012, 210, 59-63.	0.5	0
102	EXTRACTION OF THE $\Lambda(1405)$ POLES FROM $\bar{K}^0 \Lambda^0$ PHOTOPRODUCTION DATA. International Journal of Modern Physics Conference Series, 2014, 26, 1460086.	0.7	0
103	Predictions for pentaquark states of hidden charm molecular nature and comparison with experiment. EPJ Web of Conferences, 2016, 130, 06004.	0.3	0
104	The $\Lambda^+ b \rightarrow J/\psi K^+ p$ reaction: $\Lambda(1405)$ and hidden charm pentaquark formation. AIP Conference Proceedings, 2016, , .	0.4	0
105	THEORETICAL STUDY OF POLARIZATION OBSERVABLES IN DOUBLE PION PHOTOPRODUCTION ON THE PROTON. , 2003, , .		0
106	Momentum dependence of hadronic production of the \bar{K}^0 -meson and its width in nuclear matter. , 2011, , 209-213.		0
107	Reactions Looking for Hidden Charm Pentaquarks With or Without Strangeness. Acta Physica Polonica B, Proceedings Supplement, 2016, 9, 529.	0.1	0
108	Pseudoscalar meson masses in unitarized chiral perturbation theory. , 2007, , 171-173.		0