

Elias Lopez Asamar

List of Publications by Year in descending order

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Version: 2024-02-01

146
papers

9,090
citations

30070

54
h-index

43889

91
g-index

147
all docs

147
docs citations

147
times ranked

7481
citing authors

#	ARTICLE	IF	CITATIONS
1	Search for Low-Mass Weakly Interacting Massive Particles with SuperCDMS. Physical Review Letters, 2014, 112, 241302.	7.8	440
2	Silicon Detector Dark Matter Results from the Final Exposure of CDMS II. Physical Review Letters, 2013, 111, 251301.	7.8	410
3	Determination of the $\langle \mathcal{M} \rangle$ of $X(3872)$. Physical Review Letters, 2012, 108, 231801.	7.8	292
4	First Evidence for the Decay $B \rightarrow D^* \ell^+ \ell^-$. Physical Review Letters, 2013, 110, 021801.	7.8	292
5	New Results from the Search for Low-Mass Weakly Interacting Massive Particles with the CDMS Low Ionization Threshold Experiment. Physical Review Letters, 2016, 116, 071301.	7.8	275
6	Measurement of J/ψ production in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2011, 71, 1.	3.9	238
7	Prompt charm production in pp collisions at $\sqrt{s}=7$ TeV. Nuclear Physics B, 2013, 871, 1-20.	2.5	228
8	Search for Low-Mass Weakly Interacting Massive Particles Using Voltage-Assisted Calorimetric Ionization Detection in the SuperCDMS Experiment. Physical Review Letters, 2014, 112, 041302.	7.8	221
9	Projected sensitivity of the SuperCDMS SNOLAB experiment. Physical Review D, 2017, 95, .	4.7	191
10	First Dark Matter Constraints from a SuperCDMS Single-Charge Sensitive Detector. Physical Review Letters, 2018, 121, 051301.	7.8	183
11	Evidence for $C \rightarrow P$ Violation in Time-Integrated $D \rightarrow \ell^+ \ell^-$. Physical Review Letters, 2012, 108, 231801.	7.8	181
12	Strong Constraints on the Rare Decays $B \rightarrow D^* \ell^+ \ell^-$. Physical Review Letters, 2012, 108, 231801.	7.8	160
13	Observation of $X(3872)$ production in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2012, 72, 1.	3.9	153
14	Low-mass dark matter search with CDMSlite. Physical Review D, 2018, 97, .	4.7	142
15	Implications of LHCb measurements and future prospects. European Physical Journal C, 2013, 73, 1.	3.9	137
16	Observation of $\bar{t}t$ -pair production in pp collisions at $\sqrt{s}=7$ TeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, 52-59.	4.1	123
17	Measurement of J/ψ polarization in pp collisions at $\sqrt{s}=7$ TeV. European Physical Journal C, 2013, 73, 2631.	3.9	117
18	Measurement of b hadron production fractions in $7 \leq \sqrt{s} < 14$ TeV collisions. Physical Review D, 2012, 85, .	4.7	116

#	ARTICLE	IF	CITATIONS
19	Measurement of $\langle C \rangle$ and $\langle P \rangle$ violating phase in the decays $B \rightarrow \bar{c} s$ and $B \rightarrow \bar{c} d$. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.1	115
20	Differential branching fraction and angular analysis of the decay $B \rightarrow \bar{c} s$ and $B \rightarrow \bar{c} d$. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	111
21	Measurement of the $\langle C \rangle$ and $\langle P \rangle$ violating phase in the decays $B \rightarrow \bar{c} s$ and $B \rightarrow \bar{c} d$. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	7.8	108
22	Measurement of $\bar{\chi}$ production in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2012, 72, 2025.	3.9	106
23	First Observation of $\langle C \rangle$ and $\langle P \rangle$ Violation in the Decays of $B \rightarrow \bar{c} s$ and $B \rightarrow \bar{c} d$. <i>Physical Review Letters</i> , 2013, 110, 221601.	7.8	105
24	Exclusive $\langle \chi \rangle$ and $\bar{\chi}(2S)$ production in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2013, 40, 045001.	3.6	104
25	Observation of double charm production involving open charm in pp collisions at $\sqrt{s} = 7$ TeV. <i>Journal of High Energy Physics</i> , 2012, 2012, 1.	4.7	103
26	Differential branching fraction and angular analysis of the decay $B \rightarrow \bar{c} s$ and $B \rightarrow \bar{c} d$. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	103
27	Observation of Excited $\bar{\chi}$ Baryons. <i>Physical Review Letters</i> , 2012, 109, 172003.	7.8	98
28	Results from the Super Cryogenic Dark Matter Search Experiment at Soudan. <i>Physical Review Letters</i> , 2018, 120, 061802.	7.8	92
29	Measurement of the fragmentation fraction ratio f_s/f_d and its dependence on B meson kinematics. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	89
30	Measurement of $\bar{\chi}(2S)$ meson production in pp collisions at $\sqrt{s} = 7$ TeV. <i>European Physical Journal C</i> , 2012, 72, 2100.	3.9	83
31	Measurement of the $\langle C \rangle$ and $\langle P \rangle$ violating phase in the decays $B \rightarrow \bar{c} s$ and $B \rightarrow \bar{c} d$. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	7.8	82
32	First observation of $\langle C \rangle$ and $\langle P \rangle$ violating phase in the decays $B \rightarrow \bar{c} s$ and $B \rightarrow \bar{c} d$. <i>Physical Review Letters</i> , 2013, 110, 221601.	7.8	77
33	Measurement of the $\langle C \rangle$ and $\langle P \rangle$ violating phase in the decays $B \rightarrow \bar{c} s$ and $B \rightarrow \bar{c} d$. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	7.8	75
34	Observation of CP violation in $B \rightarrow \bar{c} s$ and $B \rightarrow \bar{c} d$ decays. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2012, 712, 203-212.	4.1	75
35	Measurement of the $\langle C \rangle$ and $\langle P \rangle$ violating phase in the decays $B \rightarrow \bar{c} s$ and $B \rightarrow \bar{c} d$. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	74
36	Differential branching fraction and angular analysis of the $B \rightarrow \bar{c} s$ and $B \rightarrow \bar{c} d$ decay. <i>Journal of High Energy Physics</i> , 2013, 2013, 1.	4.7	72

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37	Inclusive W and Z production in the forward region at $\sqrt{s} = 7, \sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	71
38	Analysis of the resonant components in $B \rightarrow D^* \bar{K}^0$ decays. Physical Review D, 2012, 86, 034011.	4.7	65
39	Measurement of the isospin asymmetry in $B \rightarrow D^* \bar{K}^0$ decays. Journal of High Energy Physics, 2012, 2012, 165.	4.7	65
40	Precision measurement of D meson mass differences. Journal of High Energy Physics, 2013, 2013, .	4.7	65
42	Production of J/ψ and Υ mesons in pp collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	65
43	Observation of $B \rightarrow D^* \bar{K}^0$ decays. Physical Review Letters, 2012, 108, 251802.	7.8	65
44	First Observation of the Decay $B \rightarrow D^* \bar{K}^0$. Physical Review Letters, 2012, 108, 251802.	7.8	62
45	Determination of the Sign of the Decay Width Difference in the $B \rightarrow D^* \bar{K}^0$ System. Search for the rare decays $B \rightarrow D^* \bar{K}^0$. Physical Review Letters, 2012, 108, 251802.	7.8	61
46	Analysis of the resonant components in $B \rightarrow D^* \bar{K}^0$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 699, 330-340.	4.1	60
47	Precision measurement of the $B \rightarrow D^* \bar{K}^0$ oscillation frequency with the decay $B \rightarrow D^* \bar{K}^0$. New Journal of Physics, 2013, 15, 053021.	4.1	60
48	Precision measurement of the $B \rightarrow D^* \bar{K}^0$ oscillation frequency with the decay $B \rightarrow D^* \bar{K}^0$. New Journal of Physics, 2013, 15, 053021.	2.9	59
49	Improved WIMP-search reach of the CDMS II germanium data. Physical Review D, 2015, 92, .	4.7	59
50	Measurement of b-hadron masses. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 708, 241-248.	4.1	58
51	Opposite-side flavour tagging of B mesons at the LHCb experiment. European Physical Journal C, 2012, 72, 2022.	3.9	58
52	Measurement of b-hadron branching fractions for two-body decays into charmless charged hadrons. Journal of High Energy Physics, 2012, 2012, .	4.7	56
53	Measurements of the $B \rightarrow D^* \bar{K}^0$ decay amplitudes and the $B \rightarrow D^* \bar{K}^0$ oscillation frequency with the decay $B \rightarrow D^* \bar{K}^0$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 27-35.	4.7	55
54	Measurements of the $B \rightarrow D^* \bar{K}^0$ decay amplitudes and the $B \rightarrow D^* \bar{K}^0$ oscillation frequency with the decay $B \rightarrow D^* \bar{K}^0$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 27-35.	4.1	54

#	ARTICLE	IF	CITATIONS
55	Measurement of the cross-section for $Z \rightarrow e^+e^-$ production in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	53
56	First Observation of the Decay $B \rightarrow B_s^0 \tau^+ \tau^-$. Physical Review Letters, 2013, 110, 151803.	7.8	51
57	Demonstration of surface electron rejection with interleaved germanium detectors for dark matter searches. Applied Physics Letters, 2013, 103, .	3.3	51
58	Differential Branching Fraction and Angular Analysis of the Decay $B^0 \rightarrow K^* \rho^+ \rho^-$. Physical Review Letters, 2012, 108, 181806.	7.8	50
59	Measurement of B meson production cross-sections in proton-proton collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	50
60	First Evidence of Direct CP Violation in Charmless Two-Body Decays of $B \rightarrow K^* \rho^+ \rho^-$. Physical Review Letters, 2012, 108, 201601.	7.8	49
61	Searches for Majorana neutrinos in $B^0 \rightarrow \tau^+ \tau^-$ decays. Physical Review D, 2012, 85, .	4.7	49
62	Measurement of the cross-section ratio $\sigma(B \rightarrow B_s^0 \tau^+ \tau^-) / \sigma(B \rightarrow B_s^0 \mu^+ \mu^-)$. Physical Review Letters, 2012, 108, 201601.		

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73	Measurement of the CKM angle β from a combination of $B \rightarrow D^* K$ and $B \rightarrow D^* K^*$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 152-160.	4.7	36
74	Measurement of the CKM angle β from a combination of $B \rightarrow D^* K$ and $B \rightarrow D^* K^*$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 152-160.	4.1	35
75	Measurement of the CKM angle β from a combination of $B \rightarrow D^* K$ and $B \rightarrow D^* K^*$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 152-160.	2.5	35
76	Measurement of the CKM angle β from a combination of $B \rightarrow D^* K$ and $B \rightarrow D^* K^*$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 152-160.	4.1	34
77	Measurement of the CKM angle β from a combination of $B \rightarrow D^* K$ and $B \rightarrow D^* K^*$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 726, 152-160.	4.1	34
78	Addendum: Observation of double charm production involving open charm in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2014, 2014, 1.	4.7	34
79	Search for direct CP violation in $B \rightarrow D^* K$ and $B \rightarrow D^* K^*$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 33-43.	4.1	33
80	Search for the rare decay $B \rightarrow D^* K$ and $B \rightarrow D^* K^*$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 33-43.	4.1	33
81	Searches for violation of lepton flavour and baryon number in tau lepton decays at LHCb. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 724, 36-45.	4.1	33
82	Search for the rare decays $B \rightarrow D^* K$ and $B \rightarrow D^* K^*$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 33-43.	4.1	32
83	Observation of the decay $B \rightarrow D^* K$ and $B \rightarrow D^* K^*$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 33-43.	4.7	32
84	Measurement of charged particle multiplicities in pp collisions at $\sqrt{s} = 7$ TeV in the forward region. European Physical Journal C, 2012, 72, 1.	3.9	30
85	Measurement of J/ψ production in pp collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2013, 2013, 1.	4.7	30
86	Study of $D^* \rightarrow D^0 K^+$ and $D^* \rightarrow D^+ K^0$ decays. Journal of High Energy Physics, 2012, 2012, 1.	4.1	29
87	Study of $D^* \rightarrow D^0 K^+$ and $D^* \rightarrow D^+ K^0$ decays. Journal of High Energy Physics, 2012, 2012, 1.	4.7	29
88	Measurement of relative branching fractions of B decays to $\bar{\psi}(2S)$ and J/ψ mesons. European Physical Journal C, 2012, 72, 2118.	3.9	29
89	Collisions and Measurement of the $B \rightarrow D^* K$ and $B \rightarrow D^* K^*$ decays. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 107, 21.	7.8	28

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91	Measurement of the $B \rightarrow K^* \ell^+ \ell^-$ branching fraction at low dilepton mass. Journal of High Energy Physics, 2013, 2013, 1.	4.7	28
92	Observation of $B \rightarrow D^* K^* \ell^+ \ell^-$ and Evidence for $B \rightarrow D^* K^* \ell^+ \ell^-$	7.8	27
93	Prompt hadron production ratios in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. European Physical Journal C, 2012, 72, 1.	4.1	27
94	Measurement of prompt hadron production ratios in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. European Physical Journal C, 2012, 72, 1.	4.1	26
95	Measurement of prompt hadron production ratios in pp collisions at $\sqrt{s} = 0.9$ and 7 TeV. European Physical Journal C, 2012, 72, 1.	3.9	26
96	Measurement of mixing and CP violation parameters in two-body charm decays. Journal of High Energy Physics, 2012, 2012, 1.	4.7	26
97	Measurements of the branching fractions of $B \rightarrow D^* K^* \ell^+ \ell^-$	4.1	25
98	Measurement of the forward energy flow in pp collisions at $\sqrt{s} = 7$ TeV. European Physical Journal C, 2013, 73, 2421.	3.9	25
99	Measurements of the branching fractions of $B \rightarrow D^* K^* \ell^+ \ell^-$ decays. European Physical Journal C, 2013, 73, 2462.	3.9	24
100	Observations of $B \rightarrow D^* K^* \ell^+ \ell^-$	2.5	24
101	Measurement of the $B \rightarrow D^* K^* \ell^+ \ell^-$ production cross-section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	22
102	A model-independent Dalitz plot analysis of $B \rightarrow D^* K^* \ell^+ \ell^-$ with $B \rightarrow D^* K^* \ell^+ \ell^-$. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 718, 43-55.	4.1	22
103	First observations of $B \rightarrow D^* K^* \ell^+ \ell^-$, $D_s \rightarrow D^* K^* \ell^+ \ell^-$ and $D^0 \rightarrow D^* K^* \ell^+ \ell^-$ decays. Physical Review D, 2013, 87, .	4.7	22
104	Measurement of the $B \rightarrow D^* K^* \ell^+ \ell^-$ Asymmetry in $B \rightarrow D^* K^* \ell^+ \ell^-$. Physical Review Letters, 2013, 110, 031801.	7.8	22
105	Observation of $B \rightarrow D^* K^* \ell^+ \ell^-$ Final States. Physical Review Letters, 2012, 108, 151801.	7.8	21
106	Search for Rare $B \rightarrow D^* K^* \ell^+ \ell^-$. Physical Review Letters, 2012, 108, 151801.	7.8	21
107	Measurement of the inclusive $B \rightarrow D^* K^* \ell^+ \ell^-$ cross-section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	20
108	Measurement of the inclusive $B \rightarrow D^* K^* \ell^+ \ell^-$ cross-section in pp collisions at $\sqrt{s} = 7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.1	20

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109	Measurements of the branching fractions and CP asymmetries of $B_{\pm}^0 \rightarrow \pi^{\pm} K^{\pm}$ and $B_{\pm}^0 \rightarrow \pi^{\pm} (2S) \pi^{\pm}$ decays. Physical Review D, 2012, 85, .	4.7	20
110	First Direct Limits on Lightly Ionizing Particles with Electric Charge Less than $e/6$. Physical Review Letters, 2015, 114, 111302.	7.8	20
111	Measurements of the branching fractions of the decays $B_{\pm}^0 \rightarrow D_{\pm}^0 \pi^{\pm}$ and $B_{\pm}^0 \rightarrow D_{\pm}^0 \pi^{\pm}$. Journal of High Energy Physics, 2012, 2012, .	4.7	19
112	First Measurement of the $C\!-\!P$ -Violating Phase in $B \rightarrow B_s^0$ Mixing. Physical Review Letters, 2013, 110, 241802.	7.8	19
113	Measurement of the branching fractions of the decays $B_s^0 \rightarrow D^0 K^{\pm}$ and $B^0 \rightarrow D^0 K^{\pm}$. Physical Review D, 2013, 87, .	4.7	19
114	Measurement of V_0 production ratios in pp collisions at $\sqrt{s} = 0.9$ TeV and 7 TeV. Journal of High Energy Physics, 2011, 2011, 1.	4.7	18
115	Measurement of the $B_s^0 \rightarrow \pi^0 K^{\pm}$ branching fraction and angular amplitudes. Physical Review D, 2012, 86, .	4.7	18
116	Measurement of the fraction of $\Xi(1S)$ originating from $\Xi_b(1P)$ decays in pp collisions at $\sqrt{s}=7$ TeV. Journal of High Energy Physics, 2012, 2012, 1.	4.7	18
117	Measurement of the effective lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, .	4.7	18
118	Measurement of the effective lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, .	4.7	18
119	Measurement of the effective lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 707, .	4.7	18
120	Production rate measurement of Tritium and other cosmogenic isotopes in Germanium with CDMSlite. Astroparticle Physics, 2019, 104, 1-12.	4.3	17
121	Measurement of the lifetime in the $B \rightarrow B_s^0$ mixing. Physical Review Letters, 2013, 110, 241802.	4.7	17

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127	A study of the Z production cross-section in pp collisions at $\sqrt{s}=7,\mathrm{TeV}$ using tau final states. Journal of High Energy Physics, 2013, 2013, 1.	4.7	14
128	Measurement of the ratio of branching fractions $\frac{B(\tau \rightarrow \mu \nu_\tau)}{B(\tau \rightarrow e \nu_\tau)}$		

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145	Energy loss due to defect formation from ^{206}Pb recoils in SuperCDMS germanium detectors. Applied Physics Letters, 2018, 113, .	3.3	4
146	Low-threshold WIMP search at SuperCDMS. Nuclear and Particle Physics Proceedings, 2016, 273-275, 395-398.	0.5	2