

# Lia Lavezzi

## List of Publications by Year in descending order

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Version: 2024-02-01

182  
papers

3,406  
citations

172457

29  
h-index

189892

50  
g-index

184  
all docs

184  
docs citations

184  
times ranked

2674  
citing authors

#	ARTICLE	IF	CITATIONS
1	Future Physics Programme of BESIII *. Chinese Physics C, 2020, 44, 040001.	3.7	295
2	Precise Measurement of the $\langle \mathcal{M}^2 \rangle$ and $\langle \mathcal{M}^2 \rangle^2$ for $B \rightarrow \pi \ell^+ \ell^-$ Decays. Physical Review Letters, 2019, 122, 232002.	7.8	66
3	Observation of a Near-Threshold Structure in the $B \rightarrow \pi \ell^+ \ell^-$ Cross Section at Center-of-Mass Energies $\sqrt{s} = 10.58 \text{ GeV}$ . Physical Review Letters, 2017, 118, 092001.	7.8	60
4	Recoil-Mass Spectra in $B \rightarrow \pi \ell^+ \ell^-$ Decays. Physical Review Letters, 2021, 126, 102001.	7.8	135
5	Polarization and entanglement in baryon-antibaryon pair production in electron-positron annihilation. Nature Physics, 2019, 15, 631-634.	16.7	121
6	Technical design report for the $\overline{P}$ ANDA (AntiProton Annihilations at Darmstadt) Straw Tube Tracker. European Physical Journal A, 2013, 49, 1.	2.5	71
7	Searching for beauty-fully bound tetraquarks using lattice nonrelativistic QCD. Physical Review D, 2018, 97, .	4.7	70
8	Search for signals of bound nuclear states in antiproton-4He annihilations at rest. Nuclear Physics A, 2007, 789, 222-242.	1.5	67
9	Precision Measurement of the $\langle \mathcal{M}^2 \rangle$ and $\langle \mathcal{M}^2 \rangle^2$ for $B \rightarrow \pi \ell^+ \ell^-$ Decays. Physical Review Letters, 2019, 122, 232002.	7.8	66
10	Measurement of Proton Electromagnetic Form Factors in $e p \rightarrow e p \gamma$ . Physical Review Letters, 2019, 122, 232002.	7.8	60
11	Masses of doubly heavy-quark baryons in an extended chromomagnetic model. Physical Review D, 2018, 97, .	4.7	54
12	Study of $B \rightarrow \pi \ell^+ \ell^-$ Decays. Physical Review Letters, 2019, 122, 232002.	7.8	54
13	Evidence of a Resonant Structure in the $B \rightarrow \pi \ell^+ \ell^-$ Cross Section at $\sqrt{s} = 10.58 \text{ GeV}$ . Physical Review Letters, 2017, 118, 092001.	4.7	54
14	Measurement of the Absolute Branching Fraction for $B \rightarrow \pi \ell^+ \ell^-$ . Physical Review Letters, 2019, 122, 102002.	7.8	50
15	Complete Measurement of the $\langle \mathcal{M}^2 \rangle$ and $\langle \mathcal{M}^2 \rangle^2$ for $B \rightarrow \pi \ell^+ \ell^-$ Decays. Physical Review Letters, 2019, 123, 122003.	7.8	44
16	Measurement of the Absolute Branching Fraction for $B \rightarrow \pi \ell^+ \ell^-$ . Physical Review Letters, 2019, 122, 232002.	4.1	42
17	Measurement of the Branching Fraction For the Semileptonic Decay $D^0 \rightarrow \pi^+ \ell^+ \ell^-$ and Test of Lepton Flavor Universality. Physical Review Letters, 2018, 121, 171803.	7.8	42
18	Study of $B \rightarrow \pi \ell^+ \ell^-$ Decays. Physical Review Letters, 2019, 122, 232002.	4.7	40

#	ARTICLE	IF	CITATIONS
19	Observation of a Resonant Structure in $e^+e^- \rightarrow \mu^+\mu^- \gamma$ at center-of-mass energies from 2.00 to 3.08 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136110.	4.7	36
20	Cross section measurements of $e^+e^- \rightarrow \mu^+\mu^- \gamma$ at center-of-mass energies from 2.00 to 3.08 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136110.	4.7	36
21	Determination of the Pseudoscalar Decay Constant $f_{D^*}$ via $D^* \rightarrow \mu^+\mu^- \gamma$ at center-of-mass energies from 2.3864 to 3.0200 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136110.	4.1	36
22	Observation of the Semileptonic Decay $B \rightarrow \mu^+\mu^- \gamma$ at center-of-mass energies from 2.3864 to 3.0200 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136110.	7.8	33
23	Polarization in the $B \rightarrow \mu^+\mu^- \gamma$ decay at center-of-mass energies from 2.3864 to 3.0200 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136110.	7.8	33
24	Feasibility studies of time-like proton electromagnetic form factors at FAIR. European Physical Journal A, 2016, 52, 1.	2.5	31
25	Observation of the Semileptonic Decay $B \rightarrow \mu^+\mu^- \gamma$ at center-of-mass energies from 2.3864 to 3.0200 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136110.	7.8	31
26	Observation of the Semileptonic Decay $B \rightarrow \mu^+\mu^- \gamma$ at center-of-mass energies from 2.3864 to 3.0200 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136110.	7.8	31
27	Observation of the Semileptonic Decay $B \rightarrow \mu^+\mu^- \gamma$ at center-of-mass energies from 2.3864 to 3.0200 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136110.	4.7	30
28	Experimental access to Transition Distribution Amplitudes with the $P_{\text{ANDA}}$ experiment at FAIR. European Physical Journal A, 2015, 51, 1.	2.5	29
29	Study of the $B \rightarrow \mu^+\mu^- \gamma$ decay at center-of-mass energies from 2.3864 to 3.0200 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136110.	7.8	29
30	Dynamics and Test of Lepton Flavor Universality with $B \rightarrow \mu^+\mu^- \gamma$ at center-of-mass energies from 2.3864 to 3.0200 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136110.	7.8	29
31	Technical design report for the $P_{\text{ANDA}}$ Barrel DIRC detector. Journal of Physics C: Nuclear and Particle Physics, 2019, 46, 045001.	3.6	28
32	Measurement of cross section for $e^+e^- \rightarrow \mu^+\mu^- \gamma$ at center-of-mass energies from 2.00 to 3.08 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 813, 136059.	4.7	27
33	Measurement of the cross section for $e^+e^- \rightarrow \mu^+\mu^- \gamma$ at center-of-mass energies from 2.00 to 3.08 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 813, 136059.	7.8	26
34	Observation of a resonant structure in $e^+e^- \rightarrow \mu^+\mu^- \gamma$ and another in $e^+e^- \rightarrow \mu^+\mu^- \gamma$ at center-of-mass energies between 2.00 and 3.08 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 813, 136059.	4.1	26
35	Measurements of absolute branching fractions for $B \rightarrow \mu^+\mu^- \gamma$ at center-of-mass energies from 2.3864 to 3.0200 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136110.	7.8	25
36	Measurements of absolute branching fractions for $B \rightarrow \mu^+\mu^- \gamma$ at center-of-mass energies from 2.3864 to 3.0200 GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2021, 814, 136110.	4.1	25

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37	Observation of $\int_0^1 \frac{a}{x^2} dx = \frac{1}{x} \Big _0^1 = \frac{1}{1} - \lim_{x \rightarrow 0^+} \frac{1}{x} = 1 - \infty = -\infty$		

#	ARTICLE	IF	CITATIONS
55	Measurement of $e^+e^- \rightarrow e^+\hat{a}^0 \rightarrow \hat{a}^0 DD_s^{\pm}$ , cross sections at the $\sqrt{s}(3770)$ resonance. Chinese Physics C, 2018, 42, 083001.	3.7	18
56	First Observation of $D^0 \rightarrow \pi^0 \pi^0 \pi^0$ and Measurement of Its Decay Dyn. Physical Review Letters, 2020, 124, 231801.	4.7	17
57	Measurements of Absolute Branching Fractions of Fourteen Exclusive Hadronic $D^0$ Decays to $D^0 \rightarrow \pi^0 \pi^0 \pi^0$ . Physical Review Letters, 2020, 124, 241803.	7.8	17
58	Study of Open-Charm Decays and Radiative Transitions of the $\chi_c(3872)$ . Physical Review Letters, 2020, 124, 242001.	7.8	17
59	Study of the decay $D^0 \rightarrow K^0 \pi^0$ . Physical Review Letters, 2019, 123, 011801.	4.7	16
60	Observation of $D^0 \rightarrow \pi^0 \pi^0 \pi^0$ and improved measurement of $D^0 \rightarrow \pi^0 \pi^0 \pi^0$ . Physical Review Letters, 2019, 123, 011801.	4.7	16
61	Measurements of the branching fractions for the semileptonic decays $D^0 \rightarrow \pi^0 \ell^+ \ell^-$ . Physical Review D, 2018, 97, .	4.7	15
62	Evidence for the decays of $D^0$ and $D^+$ . Chinese Physics C, 2019, 43, 083002.	3.7	15
63	Observation of the semimuonic decay $D^0 \rightarrow \mu^+ \mu^- \pi^0$ . Physical Review D, 2020, 101, .	4.7	15
64	A new analysis improving the evidence of a narrow peak in the invariant-mass distribution of the $\Lambda_b^0 p$ system observed in the $p\bar{p}$ annihilation at rest on $^4\text{He}$ . European Physical Journal A, 2009, 40, 11-22.	2.5	14
65	Measurements of absolute branching fractions for $D^0$ mesons decays into two pseudoscalar mesons. Physical Review D, 2018, 97, .	4.7	14
66	Measurement of $D^0 \rightarrow \pi^0 \pi^0 \pi^0$ strangeness production in annihilations at rest. Nuclear Physics A, 2007, 797, 109-130.	1.5	13
67	Search for the rare decays $D^0 \rightarrow \pi^0 \pi^0 \pi^0$ . Physical Review Letters, 2019, 123, 011801.	4.7	13
68	Search for the rare decays $D^0 \rightarrow \pi^0 \pi^0 \pi^0$ . Physical Review Letters, 2019, 123, 011801.	4.7	13
69	Search for the rare decays $D^0 \rightarrow \pi^0 \pi^0 \pi^0$ . Physical Review Letters, 2019, 123, 011801.	4.7	13
70	Search for the rare decays $D^0 \rightarrow \pi^0 \pi^0 \pi^0$ . Physical Review Letters, 2019, 123, 011801.	4.7	13



#	ARTICLE	IF	CITATIONS
73	Observation of $X(2370)$ and search for $X(2120)$ in $J/\psi \rightarrow \gamma K^* \eta$ . European Physical Journal C, 2020, 80, 1.	3.9	13
74	Model-Independent Determination of the Spin of the $\Lambda(1520)$ and Its Polarization Alignment in $J/\psi \rightarrow \gamma \Lambda(1520) \rightarrow \gamma p \bar{n}$ . Physical Review D, 2018, 97, .	7.8	13
75	Measurement of $X(2370)$ and search for $X(2120)$ in $J/\psi \rightarrow \gamma K^* \eta$ . Physical Review D, 2018, 97, .	4.7	12
76	Measurement of $X(2370)$ and search for $X(2120)$ in $J/\psi \rightarrow \gamma K^* \eta$ . Physical Review D, 2018, 97, .	4.7	12
77	Dalitz plot analysis of the decay $J/\psi \rightarrow \gamma \Lambda(1520) \rightarrow \gamma p \bar{n}$ . Physical Review D, 2018, 97, .	4.7	12
78	Observation and study of the decay $J/\psi \rightarrow \gamma \Lambda(1520) \rightarrow \gamma p \bar{n}$ . Physical Review D, 2018, 97, .	4.7	12
79	decaying into $J/\psi \rightarrow \gamma \Lambda(1520) \rightarrow \gamma p \bar{n}$ . Physical Review D, 2018, 97, .	4.7	12
80	Study of $J/\psi \rightarrow \gamma \Lambda(1520) \rightarrow \gamma p \bar{n}$ . Physical Review D, 2019, 100, .		
81	Measurement of the absolute branching fraction of $D_s^* \rightarrow \gamma D_s$ . Physical Review D, 2018, 97, .	4.7	11
82	Search for invisible decays of $J/\psi \rightarrow \gamma \Lambda(1520) \rightarrow \gamma p \bar{n}$ with $J/\psi \rightarrow \gamma \Lambda(1520) \rightarrow \gamma p \bar{n}$ data at BESIII. Physical Review D, 2018, 97, .	4.7	11
83	Study of the decays $D^* \rightarrow \gamma D$ . Physical Review D, 2018, 97, .	4.7	11
84	Partial-wave analysis of $J/\psi \rightarrow \gamma K^* K^*$ . Physical Review D, 2019, 100, .	4.7	11
85	Use of GEANE for tracking in virtual Monte Carlo. Journal of Physics: Conference Series, 2008, 119, 032018.	0.4	10
86	Improved measurements of two-photon widths of the $\Lambda(1520)$ states and helicity analysis for $J/\psi \rightarrow \gamma \Lambda(1520) \rightarrow \gamma p \bar{n}$ . Physical Review D, 2017, 96, .	4.7	10
87	Study of the decays $D^* \rightarrow \gamma D$ and improved measurements of $J/\psi \rightarrow \gamma \Lambda(1520) \rightarrow \gamma p \bar{n}$ . Physical Review D, 2017, 96, .	4.7	10
88	Study of the Dalitz decay $J/\psi \rightarrow \gamma e^+ e^- \Lambda(1520) \rightarrow \gamma e^+ e^- p \bar{n}$ . Physical Review D, 2019, 99, .	4.7	10
89	Search for baryon and lepton number violation in $J/\psi \rightarrow \gamma c \bar{c} e^+ e^-$ . Physical Review D, 2019, 99, .	4.7	10
90	Precision Measurement of the Branching Fractions of $\Lambda(1520)$ Decays. Physical Review Letters, 2019, 122, 142002.	7.8	10









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145	Measurement of the branching fraction of $J/\psi \rightarrow \eta' \pi^0$ and search for $\psi(3686) \rightarrow \eta' \pi^0$ . Physical Review D, 2020, 101, .	4.7	3
146	Measurement of the branching fractions of $\psi(3686) \rightarrow \eta' \pi^0$ and search for $\psi(3686) \rightarrow \eta' \pi^0$ . Physical Review D, 2020, 101, .	4.7	3
147	Measurement of the Born cross sections for $e^+e^- \rightarrow D_s^* D_s(2460) \pi^0 + c.c.$ and $e^+e^- \rightarrow D_s^* D_s(2460) \pi^+ \pi^- + c.c.$ . Physical Review D, 2020, 101, .	4.7	3
148	Search for the rare decay $J/\psi \rightarrow \eta' \pi^0$ at BESIII. Physical Review D, 2020, 101, .	4.7	3
149	Study of BESIII trigger efficiencies with the 2018 $J/\psi$ data. Chinese Physics C, 2021, 45, 023002.	3.7	3
150	Search for the $X(2370) \rightarrow \eta' \pi^0$ decay. Physical Review D, 2020, 101, .	4.7	3
151	A Cylindrical GEM Inner Tracker for the BESIII Experiment At IHEP. Springer Proceedings in Physics, 2018, , 116-119.	0.2	3
152	Performance of the micro-TPC Reconstruction for GEM Detectors at High Rate. , 2017, , .		2
153	Measurements of the branching fractions of the singly Cabibbo-suppressed decays $D^0 \rightarrow \eta' \pi^0$ , $D^0 \rightarrow \eta' \pi^0 \pi^0$ and $D^0 \rightarrow \eta' \pi^0 \pi^0 \pi^0$ . Physical Review D, 2018, 97, .	4.7	2
154	Observation of $D^0 \rightarrow \eta' \pi^0 \pi^0$ and improved measurement of $D^0 \rightarrow \eta' \pi^0 \pi^0$ . Physical Review D, 2018, 98, .		2
155	Search for rare decay $J/\psi \rightarrow \eta' \pi^0$ . Physical Review D, 2020, 101, .	4.7	2
156	First observation of the decay $J/\psi \rightarrow \eta' \pi^0$ . Physical Review D, 2020, 101, .	4.7	2
157	GRAAL: Gem Reconstruction And Analysis Library. Journal of Physics: Conference Series, 2020, 1525, 012116.	0.4	2
158	Precise measurements of branching fractions for $D_s^* \rightarrow D_s \pi^0$ meson decays to two pseudoscalar mesons. Journal of High Energy Physics, 2020, 2020, .	4.7	2
159	Measurement of the absolute branching fraction of the inclusive decay $\Lambda_c^+ \rightarrow \eta' \pi^0$ . European Physical Journal C, 2020, 80, 1.	3.9	2
160	Observation of the decays $J/\psi \rightarrow \eta' \pi^0$ and $J/\psi \rightarrow \eta' \pi^0 \pi^0$ . Physical Review D, 2020, 101, .	4.7	2
161	Measurements of $e^+e^- \rightarrow D_s^* D_s(2460) \pi^0$ , $D_s^* D_s(2460) \pi^+$ , and $D_s^* D_s(2460) \pi^0$ at $s$ from 4.18 to 4.60 GeV, and search for a $Z_c$ state close to the $D D_s^*$ threshold decaying to $D_s^* \pi^0$ at $s=4.23$ GeV. Physical Review D, 2021, 103, .	4.7	2
162	Measurement of cross sections for $e^+e^- \rightarrow D_s^* D_s(2460) \pi^0$ at center-of-mass energies from 3.80 to 4.60 GeV. Physical Review D, 2020, 102, .	4.7	2



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181	Measurement of singly Cabibbo-suppressed decays $D \rightarrow \hat{\pi}^0 \pi^0$ Physical Review D, 2020, 102, .	4.7	0
182	Test beam results of a Cylindrical GEM detector for BESIII experiment. , 2019, , .		0