

# Richard Lednicky

## List of Publications by Year in descending order

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84  
papers

4,714  
citations

117625

34  
h-index

91884

69  
g-index

85  
all docs

85  
docs citations

85  
times ranked

4391  
citing authors

#	ARTICLE	IF	CITATIONS
1	Measurement of the longitudinal spin asymmetries for weak boson production in proton-proton collisions at $\sqrt{s} = 200$ GeV. Physical Review D, 2019, 99, .	4.1	56
2	First Measurement of a Long-Lived $\Xi^0$ Atom Lifetime. Physical Review Letters, 2019, 122, 082003.	4.7	23
3	Measurement of the $\Xi^0$ atom lifetime and the $\Xi^0$ scattering length. Physical Review D, 2017, 96, .	4.7	6
4	Experimental measurement of sizes of emission sources for deuterons and $\Xi^0$ particles in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ TeV. Physical Review Letters, 2016, 117, 112001.	2.9	0
5	Observation of $\Xi^0$ production in U + U collisions at $\sqrt{s_{NN}} = 8.8$ GeV measured with the STAR experiment. Physical Review Letters, 2016, 117, 112001.	7.8	14
6	Upgraded DIRAC spectrometer at CERN PS for the investigation of $\Xi^0$ and $\Xi^0$ atoms. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 839, 52-85.	1.6	5
7	$\Xi^0$ production in U + U collisions at $\sqrt{s_{NN}} = 8.8$ GeV measured with the STAR experiment. Physical Review C, 2016, 94, .	2.9	21
8	NICA Project at JINR. Springer Proceedings in Physics, 2016, , 67-73.	0.2	3
9	Di-hadron correlations with identified leading hadrons in 200 GeV Au + Au and d + Au collisions at STAR. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 233-240.	4.1	11
10	Energy dependence of $\Xi^0$ , $\Xi^0$ , and $\Xi^0$ fluctuations in Au+Au collisions from $\sqrt{s_{NN}} = 7.7$ to 200 GeV. Physical Review C, 2015, 92, .	2.9	17
11	Measurements of dielectron production in Au + Au collisions at $\sqrt{s_{NN}} = 2.76$ GeV from the STAR experiment. Physical Review C, 2015, 92, .	2.9	17
12	Observation of Charge Asymmetry Dependence of Pion Elliptic Flow and the Possible Chiral Magnetic Wave in Heavy-Ion Collisions. Physical Review Letters, 2015, 114, 252302.	7.8	93
13	Observation of Transverse Spin-Dependent Azimuthal Correlations of Charged Pion Pairs in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ GeV. Physical Review Letters, 2015, 114, 252302.	7.8	25
14	Observation of $\Xi^0$ production in Au+Au collisions at $\sqrt{s_{NN}} = 2.76$ GeV. Physical Review Letters, 2015, 114, 252302.	7.8	85
15	Extracting $\Xi^0$ and $\Xi^0$ scattering lengths from heavy ion collisions. Physical Review C, 2015, 92, .	2.9	13
16	First observation of long-lived $\Xi^0$ + $\Xi^0$ atoms. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 12-18.	4.1	11
17	Long-range pseudorapidity dihadron correlations in d+ Au collisions at $\sqrt{s_{NN}} = 2.76$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 265-271.	4.1	68

#	ARTICLE	IF	CITATIONS
19	Dependence of acceptance-corrected dielectron excess mass spectrum at mid-rapidity in $d+Au$ collisions at $\sqrt{s_{NN}}=200$ GeV. Effect of event selection on jetlike correlation measurement in $d+Au$ collisions at $\sqrt{s_{NN}}=200$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 333-339.	4.1	32
20	Measurement of interaction between antiprotons. Nature, 2015, 527, 345-348.	27.8	71
22	First $\bar{K}K$ atom lifetime and $\bar{K}K$ scattering length measurements. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 288-294.	4.1	18
23	NICA Complex and JINR - status and plans. EPJ Web of Conferences, 2014, 70, 00084.	0.3	0
24	Status of the NICA Project. , 2014, , .		0
25	Calculating particle correlators with the account of detector efficiency. Physics of Particles and Nuclei Letters, 2013, 10, 560-565.	0.4	0
26	Project NICA at JINR. Nuclear Physics A, 2013, 904-905, 945c-948c.	1.5	8
27	HEAVY ION COLLIDER FACILITY NICA AT JINR (DUBNA): STATUS AND DEVELOPMENT. , 2013, , .		0
28	Status of NICA project at JINR. , 2013, , .		2
29	Femtoscopic Correlations and Narrow Resonance Formation. Progress of Theoretical Physics Supplement, 2012, 193, 335-339.	0.1	1
30	NICA project at JINR. Physics of Particles and Nuclei Letters, 2012, 9, 313-316.	0.4	31
31	Determination of $\bar{K}K$ scattering lengths from measurement of $\bar{K}K$ atom lifetime. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 24-29.		
32	Femtoscopic correlations and final state resonance formation. Physics of Particles and Nuclei Letters, 2011, 8, 965-968.	0.4	3
33	The MPD detector at the NICA heavy-ion collider at JINR. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2011, 628, 99-102.	1.6	71
34	Heavy-ion program at NICA/MPD at JINR. Nuclear Physics A, 2011, 855, 510-513.	1.5	15
35	Measurement of the Bottom Quark Contribution to Nonphotonic Electron Production in $d+Au$ collisions at high transverse momenta in $d+Au$ collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2009, 80, .	7.8	68
36	Measurement of the Bottom Quark Contribution to Nonphotonic Electron Production in $d+Au$ collisions at high transverse momenta in $d+Au$ collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2009, 80, .	2.9	81

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37	Azimuthal Charged-Particle Correlations and Possible Local Strong Parity Violation. Physical Review Letters, 2009, 103, 251601.	7.8	424
38	Neutral pion production in $Au+Au$ collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2009, 103, 092301.	2.9	25
39	Indications of Conical Emission of Charged Hadrons at the BNL Relativistic Heavy Ion Collider. Physical Review Letters, 2009, 102, 052302.	7.8	91
40	Fluctuations at Relativistic Energies. Physical Review Letters, 2009, 103, 092301.	7.8	53
41	Pion interferometry in $Au+Au$ and $Cu+Cu$ collisions at $\sqrt{s_{NN}}=62.4$ and 200 GeV. Physical Review C, 2009, 80, .	2.9	49
42	Beam-energy and system-size dependence of dynamical net charge fluctuations. Physical Review C, 2009, 79, .	2.9	44
43	Systematic measurements of identified particle spectra in $Au+Au$ collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2009, 103, 092301.	2.9	714
44	Initial eccentricity in deformed $Au+Au$ collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2009, 103, 092301.	2.9	42
45	Long range rapidity correlations and jet production in high energy nuclear collisions. Physical Review C, 2009, 80, .	2.9	220
46	Growth of Long Range Forward-Backward Multiplicity Correlations with Centrality in $Au+Au$ collisions at $\sqrt{s_{NN}}=2.76$ TeV. Physical Review Letters, 2009, 103, 092301.	7.8	79
47	Longitudinal double-spin asymmetry and cross section for inclusive neutral pion production at midrapidity in polarized proton collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2009, 103, 172301.	4.7	37
48	Longitudinal spin transfer to hyperons in polarized proton-proton collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2009, 103, 172301.	4.7	17
49	Measurements of meson production in relativistic heavy-ion collisions at the BNL Relativistic Heavy Ion Collider (RHIC). Physical Review C, 2009, 79, .	2.9	117
50	Observation of Two-Source Interference in the Photoproduction Reaction $\gamma p \rightarrow \pi^0 p$ . Physical Review Letters, 2009, 102, 112301.	7.8	38
51	Project of the Nuclotron-based Ion Collider fAcility (NICA) at JINR, Dubna: Perspectives of heavy ion and spin physics. , 2009, , .		1
52	Heavy-ion collisions at the LHC – Last call for predictions. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 054001.	3.6	255
53	Longitudinal Double-Spin Asymmetry for Inclusive Jet Production in $p+p$ Collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2008, 100, 232003.	7.8	89
54	Enhanced strange baryon production in $Au+Au$ collisions compared to $p+p$ collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2009, 103, 092301.	2.9	97

#	ARTICLE	IF	CITATIONS
55	$\langle \langle \mathbf{r}_i \cdot \mathbf{r}_j \rangle \rangle$ in ultraperipheral relativistic heavy ion collisions at $\sqrt{s_{NN}} = 200$ GeV. <i>Physical Review Letters</i> , 2006, 97, 252001.	2.9	64
56	Correlator analysis of multiparticle events. <i>Physics of Particles and Nuclei Letters</i> , 2007, 4, 461-467.	0.4	2
57	Status and promise of particle interferometry in heavy-ion collisions. <i>Brazilian Journal of Physics</i> , 2007, 37, xxxi-xxxiv.	1.4	1
58	Femtoscopic correlations in multiparticle production and Beta-Decay. <i>Brazilian Journal of Physics</i> , 2007, 37, 939-946.	1.4	13
59	Neutral kaon correlations in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions at RHIC. <i>Brazilian Journal of Physics</i> , 2007, 37, 994-1001.	1.4	4
60	Correlation femtoscopy. <i>Nuclear Physics A</i> , 2006, 774, 189-198.	1.5	35
61	Femtoscopic Theory. <i>AIP Conference Proceedings</i> , 2006, , .	0.4	0
62	ALICE: Physics Performance Report, Volume II. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2006, 32, 1295-2040.	3.6	441
63	Longitudinal Double-Spin Asymmetry and Cross Section for Inclusive Jet Production in Polarized Proton Collisions at $\sqrt{s_{NN}} = 200$ GeV. <i>Physical Review Letters</i> , 2006, 97, 252001.	7.8	141
64	First measurement of the $\langle \langle \mathbf{r}_i \cdot \mathbf{r}_j \rangle \rangle$ in ultraperipheral relativistic heavy ion collisions at $\sqrt{s_{NN}} = 200$ GeV. <i>Physical Review Letters</i> , 2006, 97, 252001.	4.1	90
65	Detection of $^{16}\text{He}$ atoms with the DIRAC spectrometer at CERN. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2004, 30, 1929-1946.	3.6	23
66	Effect of the relativistic spin rotation on two-particle spin composition. <i>Physical Review A</i> , 2004, 69, .	2.5	2
67	Measurements of transverse energy distributions in Au+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. <i>Physical Review C</i> , 2004, 70, .	2.9	62
68	DIRAC: A high resolution spectrometer for pionicium detection. <i>Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment</i> , 2003, 515, 467-496.	1.6	34
69	Spin correlations and consequences of quantum-mechanical coherence. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2001, 508, 146-154.	4.1	22
70	Temperature and excitation energy determination in $^{208}\text{Pb} + ^{197}\text{Au}$ reactions at 29 MeV/u. <i>Nuclear Physics A</i> , 1995, 591, 371-386.	1.5	15
71	Classical and quantum approach to light-particle correlations in intermediate-energy heavy-ion reactions. <i>Physical Review C</i> , 1994, 49, 349-354.	2.9	12
72	Possible observation of medium effects using a pion correlation technique. <i>Nuclear Physics A</i> , 1993, 562, 365-388.	1.5	5

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73	A high statistics measurement of the deuteron structure functions $F_2(x, Q^2)$ and $R$ from deep inelastic muon scattering at high $Q^2$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 237, 592-598.	4.1	233
74	A comparison of the structure functions $F_2$ of the proton and the neutron from deep inelastic muon scattering at high $Q^2$ . Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1990, 237, 599-604.	4.1	98
75	On the sensitivity of nucleon-nucleon correlations to the form of short-range potential. European Physical Journal D, 1986, 36, 1281-1287.	0.4	21
76	Differences between Annihilation and Nonannihilation Characteristics of $\bar{p}$ - $p$ -Interactions at 22.4 GeV/c. Physica Scripta, 1985, 31, 103-106.	2.5	2
77	Polarization Effects in $\pi^0$ -Meson Production in Antiproton-Proton Interactions at 22.4, 12, and 5.7 GeV/c. Physical Review Letters, 1985, 55, 562-565.	7.8	3
78	Inclusive $K^0$ , $\bar{\Lambda}$ and $\Sigma^0$ $\Lambda$ -production in $\bar{p}$ - $p$ -interactions at 22.4 GeV/c. Zeitschrift für Physik C-Particles and Fields, 1984, 25, 213-223.	1.5	4
79	Comparison of antiproton diffraction dissociation with inelastic $\bar{p}$ - $p$ interactions and $e^+e^-$ annihilation into hadrons. Zeitschrift für Physik C-Particles and Fields, 1983, 17, 17-19.	1.5	1
80	Inelastic $\bar{p}$ - $p$ interactions at 22.4 GeV/c compared with $e^+e^-$ annihilation into hadrons. Zeitschrift für Physik C-Particles and Fields, 1982, 15, 287-291.	1.5	3
81	The description of inclusive characteristics in $\bar{p}$ - $p$ interactions at 22.4 GeV/c in terms of the quark-parton model. Zeitschrift für Physik C-Particles and Fields, 1980, 5, 17-26.	1.5	4
82	Experimental verification of the dual unitarization scheme. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1979, 85, 424-426.	4.1	8
83	Azimuthal correlations in $\bar{p}$ - $p$ interactions at 22.4 GeV/c. Il Nuovo Cimento A, 1979, 51, 394-404.	0.2	1
84	Inclusive production of $\bar{\Lambda}^{++}$ (1236) in $p$ interactions at 22.4 GeV/c. Nuclear Physics B, 1979, 151, 193-205.	2.5	7