

Richard Lednicky

List of Publications by Year in descending order

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84
papers

4,714
citations

117625

34
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91884

69
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85
all docs

85
docs citations

85
times ranked

4391
citing authors

#	ARTICLE	IF	CITATIONS
1	<p> $pp \rightarrow d + p$ </p> <p> Azimuthal Anisotropy in Au+Au collisions compared to meson production in relativistic heavy-ion collisions at the BNL Relativistic Heavy Ion Collider (RHIC). Physical Review C, 2009, 79, . </p>	2.9	714
2	ALICE: Physics Performance Report, Volume II. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 1295-2040.	3.6	441
3	Azimuthal Charged-Particle Correlations and Possible Local Strong Parity Violation. Physical Review Letters, 2009, 103, 251601.	7.8	424
4	Heavy-ion collisions at the LHC – Last call for predictions. Journal of Physics G: Nuclear and Particle Physics, 2008, 35, 054001.	3.6	255
5	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
6	Long range rapidity correlations and jet production in high energy nuclear collisions. Physical Review C, 2009, 80, .	2.9	220
7	Longitudinal Double-Spin Asymmetry and Cross Section for Inclusive Jet Production in Polarized Proton Collisions at $\sqrt{s}=200$ GeV. Physical Review Letters, 2006, 97, 252001.	7.8	141
8	Measurements of \bar{p} meson production in relativistic heavy-ion collisions at the BNL Relativistic Heavy Ion Collider (RHIC). Physical Review C, 2009, 79, .	2.9	117
9	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
10	Enhanced strange baryon production in Au+Au collisions compared to p at $\sqrt{s}=200$ GeV. Physical Review Letters, 2009, 103, 251601.	2.9	97
11	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
12	Indications of Conical Emission of Charged Hadrons at the BNL Relativistic Heavy Ion Collider. Physical Review Letters, 2009, 102, 052302.	7.8	91
13	<p> U </p> <p> Longitudinal Double-Spin Asymmetry for Inclusive Jet Production in p + p Collisions at $\sqrt{s}=200$ GeV. Physical Review Letters, 2008, 100, 232003. </p>	4.1	90
14	Longitudinal Double-Spin Asymmetry for Inclusive Jet Production in p + p Collisions at $\sqrt{s}=200$ GeV. Physical Review Letters, 2008, 100, 232003.	7.8	89
15	<p> U </p> <p> Azimuthal Anisotropy in Au+Au collisions compared to meson production in relativistic heavy-ion collisions at the BNL Relativistic Heavy Ion Collider (RHIC). Physical Review C, 2009, 79, . </p>	7.8	85
16	<p> p </p> <p> Azimuthal Anisotropy in Au+Au collisions compared to meson production in relativistic heavy-ion collisions at the BNL Relativistic Heavy Ion Collider (RHIC). Physical Review C, 2009, 79, . </p>	2.9	81
17	<p> $Au + Au$ </p> <p> Azimuthal Anisotropy in Au+Au collisions compared to meson production in relativistic heavy-ion collisions at the BNL Relativistic Heavy Ion Collider (RHIC). Physical Review C, 2009, 79, . </p>	7.8	79
18	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

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19	Measurement of interaction between antiprotons. Nature, 2015, 527, 345-348.	27.8	71
20	Measurement of the Bottom Quark Contribution to Nonphotonic Electron Production in p - p Collisions at $\sqrt{s} = 200$ GeV. Physical Review Letters, 2010, 105, 202301.	7.8	68
21	Long-range pseudorapidity-dihadron correlations in d - Au collisions at $\sqrt{s} = 200$ GeV. Physical Review Letters, 2010, 105, 202301.	6.8	68
22	Measurement of the proton $\langle \eta \rangle$ correlation function in Au - Au collisions at $\sqrt{s} = 200$ GeV. Physical Review Letters, 2015, 115, 202301.	2.9	64
23	Measurements of transverse energy distributions in Au - Au collisions at $\sqrt{s} = 200$ GeV. Physical Review C, 2004, 70, 044901.	2.9	62
24	Measurements of dielectron production in Au + Au collisions at $\sqrt{s} = 200$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 347, 265-271.	4.1	56
25	Measurements of dielectron production in Au + Au collisions at $\sqrt{s} = 200$ GeV from the STAR experiment. Physical Review C, 2015, 92, .	2.9	55
26	Fluctuations at Relativistic Energies. Physical Review Letters, 2009, 103, 092301.	7.8	53
27	Pion interferometry in Au - Au and Cu - Cu collisions at $\sqrt{s} = 62.4$ and 200 GeV. Physical Review C, 2009, 80, .	2.9	49
28	Beam-energy and system-size dependence of dynamical net charge fluctuations. Physical Review C, 2009, 79, .	2.9	44
29	Initial eccentricity in deformed Au - Au collisions at $\sqrt{s} = 200$ GeV. Physical Review Letters, 2009, 103, 092301.	2.9	42
30	Observation of Two-Source Interference in the Photoproduction Reaction γ - Au and γ - Au . Physical Review Letters, 2009, 102, 112301.	7.8	38
31	Longitudinal double-spin asymmetry and cross section for inclusive neutral pion production at midrapidity in polarized proton collisions at $\sqrt{s} = 200$ GeV. Physical Review Letters, 2011, 107, 072301.	4.7	37
32	Determination of π - π scattering lengths from measurement of π - π scattering at $\sqrt{s} = 200$ GeV. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2011, 704, 24-29.	4.1	37
33	Correlation femtoscopy. Nuclear Physics A, 2006, 774, 189-198.	1.5	35
34	DIRAC: A high resolution spectrometer for ponium detection. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2003, 515, 467-496.	1.6	34
35	Determination of acceptance-corrected dielectron excess mass spectrum at mid-rapidity in Au - Au collisions at $\sqrt{s} = 200$ GeV. Physical Review Letters, 2011, 107, 072301.	4.1	32
36	NICA project at JINR. Physics of Particles and Nuclei Letters, 2012, 9, 313-316.	0.4	31

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37	Observation of Transverse Spin-Dependent Azimuthal Correlations of Charged Pion Pairs in $\langle \cos(\phi_1 - \phi_2) \rangle$	2.9	25
38	Effect of event selection on jetlike correlation measurement in d+Au collisions at $\langle \cos(\phi_1 - \phi_2) \rangle$	7.8	25
39	Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 743, 333-339.	11	24
40	Detection of $\bar{\Lambda}^0$ atoms with the DIRAC spectrometer at CERN. Journal of Physics G: Nuclear and Particle Physics, 2004, 30, 1929-1946.	3.6	23
41	Measurement of the longitudinal spin asymmetries for weak boson production in proton-proton collisions at $\langle \cos(\phi_1 - \phi_2) \rangle$	4.7	23
42	Spin correlations and consequences of quantum-mechanical coherence. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2001, 508, 146-154.	4.1	22
43	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
44	$\bar{\Lambda}^0$ production in U + U collisions at $\langle \cos(\phi_1 - \phi_2) \rangle$	2.9	21
45	First $\bar{\Lambda}^0$ atom lifetime and $\bar{\Lambda}^0$ scattering length measurements. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 735, 288-294.	4.1	18
46	Longitudinal spin transfer to $\langle \cos(\phi_1 - \phi_2) \rangle$	4.7	17
47	Energy dependence of $\langle \cos(\phi_1 - \phi_2) \rangle$, and $\langle \cos(\phi_1 - \phi_2) \rangle$ fluctuations in Au+Au collisions from NN=7.7 to 200 GeV. Physical Review C, 2015, 92, .	2.9	17
48	Temperature and excitation energy determination in 208Pb + 197Au reactions at 29 MeV/u. Nuclear Physics A, 1995, 591, 371-386.	1.5	15
49	Heavy-ion program at NICA/MPD at JINR. Nuclear Physics A, 2011, 855, 510-513.	1.5	15
50	Observation of $\langle \cos(\phi_1 - \phi_2) \rangle$	7.8	14
51	Extracting $\langle \cos(\phi_1 - \phi_2) \rangle$	2.9	13
52	Femtoscopic correlations in multiparticle production and Beta-Decay. Brazilian Journal of Physics, 2007, 37, 939-946.	1.4	13
53	Classical and quantum approach to light-particle correlations in intermediate-energy heavy-ion reactions. Physical Review C, 1994, 49, 349-354.	2.9	12
54	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

#	ARTICLE	IF	CITATIONS
55	First observation of long-lived $\bar{\Lambda} + \bar{\Lambda}^0$ atoms. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 751, 12-18.	4.1	11
56	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
57	Project NICA at JINR. Nuclear Physics A, 2013, 904-905, 945c-948c.	1.5	8
58	Inclusive production of $\bar{\Lambda}^{++}$ (1236) in p interactions at 22.4 GeV/c. Nuclear Physics B, 1979, 151, 193-205.	2.5	7
59	Measurement of the $\bar{\Lambda}^0$ atom lifetime and the $\bar{\Lambda}^0$ scattering length. Physical Review D, 2017, 96, .	4.7	6
60	Possible observation of medium effects using a pion correlation technique. Nuclear Physics A, 1993, 562, 365-388.	1.5	5
61	Upgraded DIRAC spectrometer at CERN PS for the investigation of $\bar{\Lambda}^0$ and $\bar{\Lambda}^0$ atoms. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2016, 839, 52-85.	1.6	5
62	The description of inclusive characteristics in pp 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
63	Inclusive $K^0, \bar{\Lambda}$ and Λ production in p -interactions at 22.4 GeV/c. Zeitschrift für Physik C-Particles and Fields, 1984, 25, 213-223.	1.5	4
64	Neutral kaon correlations in $\sqrt{s_{NN}} = 200$ GeV Au+Au collisions at RHIC. Brazilian Journal of Physics, 2007, 37, 994-1001.	1.4	4
65	Inelastic 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
66	Polarization Effects in Λ -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
67	Femtoscopic correlations and final state resonance formation. Physics of Particles and Nuclei Letters, 2011, 8, 965-968.	0.4	3
68	First Measurement of a Long-Lived $\bar{\Lambda}^0$ Atom Lifetime. Physical Review Letters, 2019, 122, 082003.	7.8	3
69	NICA Project at JINR. Springer Proceedings in Physics, 2016, , 67-73.	0.2	3
70	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
71	Effect of the relativistic spin rotation on two-particle spin composition. Physical Review A, 2004, 69, .	2.5	2
72	Correlator analysis of multiparticle events. Physics of Particles and Nuclei Letters, 2007, 4, 461-467.	0.4	2

#	ARTICLE	IF	CITATIONS
73	Status of NICA project at JINR. , 2013, , .		2
74	Azimuthal correlations in pp interactions at 22.4 GeV/cinteractions at 22.4 GeV/c. Il Nuovo Cimento A, 1979, 51, 394-404.	0.2	1
75	Comparison of antiproton diffraction dissociation with inelastic pp interactions and e^+e^- annihilation into hadrons. Zeitschrift für Physik C-Particles and Fields, 1983, 17, 17-19.	1.5	1
76	Project of the Nuclotron-based Ion Collider Facility (NICA) at JINR, Dubna: Perspectives of heavy ion and spin physics. , 2009, , .		1
77	Femtoscopic Correlations and Narrow Resonance Formation. Progress of Theoretical Physics Supplement, 2012, 193, 335-339.	0.1	1
78	Status and promise of particle interferometry in heavy-ion collisions. Brazilian Journal of Physics, 2007, 37, xxxi-xxxiv.	1.4	1
79	Femtoscopy: Theory. AIP Conference Proceedings, 2006, , .	0.4	0
80	Calculating particle correlators with the account of detector efficiency. Physics of Particles and Nuclei Letters, 2013, 10, 560-565.	0.4	0
81	NICA Complex and JINR - status and plans. EPJ Web of Conferences, 2014, 70, 00084.	0.3	0
82	Experimental measurement of sizes of emission sources for deuterons and \pm particles in O particles in 16 HEAVY ION COLLIDER FACILITY NICA AT JINR (DUBNA): STATUS AND DEVELOPMENT. , 2013, , .	2.9	0
83	HEAVY ION COLLIDER FACILITY NICA AT JINR (DUBNA): STATUS AND DEVELOPMENT. , 2013, , .		0
84	Status of the NICA Project. , 2014, , .		0