

AleÅ; Srnka

List of Publications by Year in descending order

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87
times ranked

1342
citing authors

#	ARTICLE	IF	CITATIONS
1	The spin-dependent structure function F_2^{spin} of the nucleon from quasi-real photoproduction of high-energy pions and kaons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 673, 127-135.	4.1	258
2	Collins and Sivers asymmetries for pions and kaons in muon-deuteron DIS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 673, 127-135.	4.1	207
3	A new measurement of the Collins and Sivers asymmetries on a transversely polarised deuteron target. Nuclear Physics B, 2007, 765, 31-70.	2.5	203
4	Measurement of the Collins and Sivers asymmetries on transversely polarised protons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 692, 240-246.	4.1	142
5	The spin-dependent structure function of the proton F_2^{spin} from quasi-real photoproduction of high-energy pions and kaons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 673, 127-135.	4.1	118
6	Quark helicity distributions from longitudinal spin asymmetries in muon-proton and muon-deuteron scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 227-235.	4.1	118
7	Observation of a resonance in Diffractive Dissociation of p and n in DIS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 227-235.	7.8	112
8	Measurement of the spin structure of the deuteron in the DIS region. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 612, 154-164.	4.1	111
9	\hat{I}^{E} Experimental investigation of transverse spin asymmetries in \hat{I}^{E} -p SIDIS processes: Sivers asymmetries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 717, 383-389.	4.1	111
10	\hat{I}^{E} Experimental investigation of transverse spin asymmetries in \hat{I}^{E} -p SIDIS processes: Collins asymmetries. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 717, 376-382.	4.1	101
11	The spin structure function F_2^{spin} of the nucleon from quasi-real photoproduction of high-energy pions and kaons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 18-28.	4.1	89
12	First Measurement of Transverse-Spin-Dependent Azimuthal Asymmetries in the Drell-Yan Process. Physical Review Letters, 2017, 119, 112002.	7.8	86
13	Collins and Sivers asymmetries in muonproduction of pions and kaons off transversely polarised protons. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 744, 250-259.	4.1	81
14	The polarised valence quark distribution from semi-inclusive DIS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 660, 458-465.	4.1	72
15	Transverse spin effects in hadron-pair production from semi-inclusive deep inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 713, 10-16.	4.1	70
16	Flavour separation of helicity distributions from deep inelastic muon-deuteron scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 680, 217-224.	4.1	66
17	A high-statistics measurement of transverse spin effects in dihadron production from muon-proton semi-inclusive deep-inelastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 736, 124-131.	4.1	64

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19	Observation of a New Narrow Axial-Vector Meson $\langle \sigma \rangle = \frac{1}{2} \left(\frac{1}{\Gamma} \frac{d\sigma}{d\Omega} \right)_{\theta=0} - \frac{1}{2} \left(\frac{1}{\Gamma} \frac{d\sigma}{d\Omega} \right)_{\theta=\pi}$	7.8	60
20	The COMPASS setup for physics with hadron beams. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 2015, 779, 69-115.	1.6	59
21	Hadron transverse momentum distributions in muon deep inelastic scattering at 160 GeV/c. European Physical Journal C, 2013, 73, 1.	3.9	57
22	Leading and next-to-leading order gluon polarization in the nucleon and longitudinal double spin asymmetries from open charm muoproduction. Physical Review D, 2013, 87, .	4.7	55
23	Measurement of azimuthal hadron asymmetries in semi-inclusive deep inelastic scattering off unpolarised nucleons. Nuclear Physics B, 2014, 886, 1046-1077. Spin asymmetry	2.5	55
24	Cryogenic apparatus for study of near-field heat transfer. Review of Scientific Instruments, 2011, 82, 055106.	4.1	48
25	Cryogenic apparatus for study of near-field heat transfer. Review of Scientific Instruments, 2011, 82, 055106.	1.3	48
26	Leading order determination of the gluon polarisation from DIS events with high-pT hadron pairs. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 922-930.	4.1	45
27	Light isovector resonances in $\langle \sigma \rangle$	4.1	43
28	Light isovector resonances in $\langle \sigma \rangle$ at $\langle \sigma \rangle$	4.1	43
29	Heat transfer in cryogenic helium gas by turbulent Rayleigh-Bénard convection in a cylindrical cell of aspect ratio 1. New Journal of Physics, 2014, 16, 053042.	2.9	38
30	Low temperature radiative properties of materials used in cryogenics. Cryogenics, 2005, 45, 529-536.	1.7	36
31	Gluon polarisation in the nucleon and longitudinal double spin asymmetries from open charm muoproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 676, 31-38.	4.1	36
32	Effect of Boundary Layers Asymmetry on Heat Transfer Efficiency in Turbulent Rayleigh-Bénard Convection at Very High Rayleigh Numbers. Physical Review Letters, 2012, 109, 154301.	7.8	36
33	Measurement of the Charged-Pion Polarizability. Physical Review Letters, 2015, 114, 062002.	7.8	36
34	Final COMPASS results on the deuteron spin-dependent structure function g_1^d and the Bjorken sum rule. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 769, 34-41.	4.1	34
35	Measurement of the longitudinal spin transfer to \hat{p} and Λ hyperons in polarised muon DIS. European Physical Journal C, 2009, 64, 171.	3.9	32
36	Azimuthal asymmetries of charged hadrons produced by high-energy muons scattered off longitudinally polarised deuterons. European Physical Journal C, 2010, 70, 39-49.	3.9	31

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37	Multiplicities of charged kaons from deep-inelastic muon scattering off an isoscalar target. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 767, 133-141.	4.1	30
38	Sivers asymmetry extracted in SIDIS at the hard scales of the Drell-Yan process at COMPASS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 770, 138-145.	4.1	30
39	Search for exclusive photoproduction of Z^0 at COMPASS. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 742, 330-334.	4.1	16
40	Transverse-momentum-dependent multiplicities of charged hadrons in muon-deuteron deep inelastic scattering. Physical Review D, 2018, 97, .	4.7	29
41	Resonance production and S -wave in $\bar{p}p$ collisions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 1-10.	4.7	28
42	Multiplicities of charged pions and charged hadrons from deep-inelastic scattering of muons off an isoscalar target. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 764, 1-10.	4.1	28
43	Transverse extension of partons in the proton probed in the sea-quark range by measuring the DVCS cross section. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2019, 793, 188-194.	4.1	25
44	Helium cryostat for experimental study of natural turbulent convection. Review of Scientific Instruments, 2010, 81, 085103.	1.3	20
45	Double spin asymmetry in exclusive $\bar{p}p$ muoproduction at COMPASS. European Physical Journal C, 2007, 52, 255-265.	3.9	19
46	First measurement of the Sivers asymmetry for gluons using SIDIS data. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 772, 854-864.	4.1	19
47	First Measurement of Chiral Dynamics in $\bar{p}p$ muoproduction. Physical Review Letters, 2012, 108, 192001.	7.8	18
48	Exclusive muoproduction on transversely polarised protons and deuterons. Nuclear Physics B, 2012, 865, 1-20.	2.5	18
49	Transverse target spin asymmetries in exclusive $\bar{p}p$ muoproduction. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 731, 19-26.	4.1	16
50	A database of metallic materials emissivities and absorptivities for cryogenics. Cryogenics, 2019, 97, 85-99.	1.7	17
51	Search for muoproduction of $X(3872)$ at COMPASS and indication of a new state. High-Energy Physics, 2018, 783, 334-340.	4.1	15
52	Measurement of the cross section for hard exclusive $\bar{p}p$ muoproduction on the proton. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 805, 135454.	4.1	16
53	Longitudinal double-spin asymmetry and spin-dependent structure function p and spin-dependent structure function g in $\bar{p}p$ muoproduction. Nuclear Physics B, 2019, 940, 34-53.	4.1	15
54	Measurement of P-weighted Sivers asymmetries in leptonproduction of hadrons. Nuclear Physics B, 2019, 940, 34-53.	2.5	13

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55	Measurement of radiative widths of $\rho(1320)$ and $\pi_2(1670)$. European Physical Journal A, 2014, 50, 1.	2.5	12
56	Leading-order determination of the gluon polarisation from semi-inclusive deep inelastic scattering data. European Physical Journal C, 2017, 77, 1.	3.9	12
57	New analysis of $\Lambda(1520)$ tensor resonances measured at the COMPASS experiment. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 779, 464-472.	4.1	12
58	Triangle Singularity as the Origin of the $\pi^+\pi^-\rho(770)$ Amplitude. Physical Review Letters, 2018, 121, 172001.	7.8	11
59	Target with a frozen nuclear polarization for experiments at low energies. Nuclear Instruments and Methods in Physics Research, Section A: Accelerators, Spectrometers, Detectors and Associated Equipment, 1994, 345, 421-428.	1.6	11
60	Interplay among transversity induced asymmetries in hadron lepton production. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 406-411.	4.1	11
61	Effect of superconductivity on near-field radiative heat transfer. Physical Review B, 2017, 95, .	3.2	10
62	K^0_S over K^+ multiplicity ratio for kaons produced in DIS with a large fraction of the virtual-photon energy. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2018, 786, 390-398.	4.1	10
63	Superconducting shim system with high purity magnetic field for NMR and MRI solenoid magnet MIDI-200. IEEE Transactions on Magnetics, 1996, 32, 2643-2646.	2.1	8
64	Effect of different treatments of copper surface on its total hemispherical absorptivity below 77K. Cryogenics, 2007, 47, 257-261.	1.7	8
65	Exclusive π^0 meson muon production on transversely polarised protons. Nuclear Physics B, 2017, 915, 454-475.	2.5	8
66	Design of matrix shim coils system for nuclear magnetic resonance. IEEE Transactions on Magnetics, 2000, 36, 1732-1735.	2.1	7
67	Study of $\Lambda(1385)$ and $\Lambda(1321)$ hyperon and antihyperon production in deep inelastic muon scattering. European Physical Journal C, 2013, 73, 1.	3.9	7
68	Exotic meson $\pi^+\pi^-\rho(770)$ Amplitude. Physical Review Letters, 2018, 121, 172001.	7.8	7
69	Spin physics with antiprotons. European Physical Journal D, 2005, 55, A75-A92.	0.4	6
70	Measurement of the cross section for high- p_T hadron production in the scattering of $\mu^+\mu^-$ at $\sqrt{s}=160$ GeV. European Physical Journal C, 2018, 78, 1.	4.7	6
71	Azimuthal asymmetries of charged hadrons produced in high-energy muon scattering off longitudinally polarised deuterons. European Physical Journal C, 2018, 78, 1.	3.9	6
72	D^0 and D^+ meson production in muon nucleon interactions at 160 GeV/c. European Physical Journal C, 2012, 72, 1.	3.9	5

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73	Longitudinal double spin asymmetries in single hadron quasi-real photoproduction at high p_T . <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 753, 573-579.	4.1	5
74	Low temperature thermal radiative properties of gold coated metals. <i>International Journal of Refrigeration</i> , 2017, 82, 51-55.	3.4	5
75	Urban $\langle i \rangle$ et al. Reply. <i>Physical Review Letters</i> , 2013, 110, 199402.	7.8	4
76	Spin alignment and violation of the OZI rule in exclusive \bar{p} and $\bar{\Lambda}$ production in pp collisions. <i>Nuclear Physics B</i> , 2014, 886, 1078-1101.	2.5	4
77	Antiproton over proton and $K^{\bar{0}}$ over K^+ multiplicity ratios at high z in DIS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2020, 807, 135600.	4.1	3
78	Contribution of exclusive diffractive processes to the measured azimuthal asymmetries in SIDIS. <i>Nuclear Physics B</i> , 2020, 956, 115039.	2.5	3
79	Near field radiative heat transfer between macro-scale metallic surfaces at cryogenic temperatures. <i>Cryogenics</i> , 2021, 113, 103156.	1.7	3
80	Probing transversity by measuring \hat{p} polarisation in SIDIS. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2022, 824, 136834.	4.1	2
81	The new nuclear orientation facility at Charles University Prague. <i>European Physical Journal D</i> , 1996, 46, 2795-2796.	0.4	1
82	Nuclear Orientation Facility at Charles University in Prague. <i>European Physical Journal D</i> , 2000, 50, 381-384.	0.4	1
83	Low conductive thermal insulation pad with high mechanical stiffness. <i>International Journal of Refrigeration</i> , 2021, 132, 92-92.	3.4	1
84	Publisher's Note: Effect of Boundary Layers Asymmetry on Heat Transfer Efficiency in Turbulent Rayleigh-Bénard Convection at Very High Rayleigh Numbers [<i>Phys. Rev. Lett.</i> 109 , 154301 (2012)]. <i>Physical Review Letters</i> , 2012, 109, .	7.8	0