

Sandor Lokos

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

1,551
citations

361045

20
h-index

360668

35
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97
all docs

97
docs citations

97
times ranked

5478
citing authors

#	ARTICLE	IF	CITATIONS
1	Study of quark and gluon jet substructure in Z+jet and dijet events from pp collisions. Journal of High Energy Physics, 2022, 2022, 1.	1.6	8
2	Kinematic dependence of azimuthal anisotropies in p+Au, d+Au, and He3+Au at sNN=200GeV. Physical Review C, 2022, 105, .	1.1	8
3	Asymmetries of forward neutrons in $p+p$ collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
4	Inclusive and differential cross section measurements of single top quark production in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	6
5	Search for flavor-changing neutral current interactions of the top quark and the Higgs boson decaying to a bottom quark-antiquark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
6	Search for long-lived particles decaying to leptons with large impact parameter in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 153.	1.4	14
7	Search for long-lived particles produced in association with a Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	3
8	Study of dijet events with large rapidity separation in proton-proton collisions at $\sqrt{s} = 2.76$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	1
9	Search for low-mass dilepton resonances in Higgs boson decays to four-lepton final states in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2022, 82, 290.	1.4	18
10	Search for supersymmetry in final states with two or three soft leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	13
11	Search for long-lived particles decaying into muon pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV collected with a dedicated high-rate data stream. Journal of High Energy Physics, 2022, 2022, .	1.6	5
12	Search for a right-handed W boson and a heavy neutrino in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	12
13	Search for a heavy resonance decaying into a top quark and a W boson in the lepton+jets final state at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
14	Search for heavy resonances decaying to ZZ or ZW and axion-like particles mediating nonresonant ZZ or ZH production at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	6
15	Measurement and QCD analysis of double-differential inclusive jet cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
16	Search for electroweak production of charginos and neutralinos in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	5
17	Measurement of the inclusive $t\bar{t}$ production cross section in proton-proton collisions at $\sqrt{s} = 5.02$ TeV. Journal of High Energy Physics, 2022, 2022, 1.	1.6	2
18	Search for heavy resonances decaying to a pair of Lorentz-boosted Higgs bosons in final states with leptons and a bottom quark pair at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	1.6	2

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19	Search for higgsinos decaying to two Higgs bosons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	1.6	4
20	Measurement of the inclusive and differential $t\bar{t}$ cross sections in the dilepton channel and effective field theory interpretation in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2022, 2022, .	1.6	2
21	Observation of $B^0 \rightarrow \mu^+ \mu^- (2S) K^0_{\text{short}}$ and $B^0_{\text{short}} \rightarrow \mu^+ \mu^- (2S) K^0_{\text{short}}$ decays. European Physical Journal C, 2021, 2021, 1.	1.4	1
22	Measurement of Λ_{QCD} from the p and \bar{p} production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	3
23	Search for the lepton flavor violating decay $\tilde{l}_i \rightarrow l_j \gamma$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	3
24	Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 13.	1.4	33
25	Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1.	1.6	54
26	Search for top squark pair production using dilepton final states in collision data collected at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 3.	1.4	33
27	Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	3
28	Search for dark photons in Higgs boson production via vector boson fusion in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	14
29	Measurements of $\sigma(\text{pp} \rightarrow \mu^+ \mu^- Z)$ and $\sigma(\text{pp} \rightarrow \mu^+ \mu^- Z)$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	1.6	10
30	Measurements of $\sigma(\text{pp} \rightarrow \mu^+ \mu^- Z)$ production cross sections and constraints on anomalous triple gauge couplings at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 200.	1.4	24
31	Search for nonresonant Higgs boson pair production in final states with two bottom quarks and two photons in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	26
32	Search for new physics in top quark production with additional leptons in proton-proton collisions at $\sqrt{s} = 13$ TeV using effective field theory. Journal of High Energy Physics, 2021, 2021, 1.	1.6	12
33	Measurement of differential cross sections for Z bosons produced in association with charm jets in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	5
34	Search for supersymmetry in final states with two oppositely charged same-flavor leptons and missing transverse momentum in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	28
35	Development and validation of HERWIG tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312.	1.4	12
36	Angular analysis of the decay $B^+ \rightarrow K^+ \mu^+ \mu^-$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	9

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37	Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 378.	1.4	40
38	Study of Drell-Yan dimuon production in proton-lead collisions at $\sqrt{s_{\{\mathrm{NN}\}}}$ = 8.16 TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	3
39	Measurements of the differential cross sections of the production of Z + jets and $\hat{\Gamma}^3$ + jets and of Z boson emission collinear with a jet in pp collisions at \sqrt{s} = 13 TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	2
40	In-medium modification of dijets in PbPb collisions at $\sqrt{s_{\{\mathrm{NN}\}}}$ = 5.02 TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	5
41	Measurement of the Z boson differential production cross section using its invisible decay mode (Z $\hat{\alpha}^+$) Tj ETQq1 1 0.784314 rgBT /Ome Physics, 2021, 2021, 1.	1.6	2
42	Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 488.	1.4	35
43	Measurements of Higgs boson production cross sections and couplings in the diphoton decay channel at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	27
44	Search for resonant and nonresonant new phenomena in high-mass dilepton final states at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	62
45	MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 629.	1.4	18
46	Search for a heavy vector resonance decaying to a $\{\mathrm{Z}\}_{\{\mathrm{}}^{\{\mathrm{}}}$ boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 688.	1.4	9
47	Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 723.	1.4	19
48	Measurements of angular distance and momentum ratio distributions in three-jet and $\{\text{Z}\}$ + two-jet final states in $\{\text{p}\}\{\text{p}\}$ collisions. European Physical Journal C, 2021, 81, 852.	1.4	2
49	Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, \text{hbox } \{\text{TeV}\}$ in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800.	1.4	123
50	Probing Gluon Spin-Momentum Correlations in Transversely Polarized Protons through Midrapidity Isolated Direct Photons in $\hat{\alpha}^+$ Collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 852.	2.9	11
51	Search for chargino-neutralino production in events with Higgs and W bosons using 137 fb $^{-1}$ of proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	8
52	Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13, \text{ext } \{\text{TeV}\}$. European Physical Journal C, 2021, 81, 970.	1.4	18
53	Observation of tW production in the single-lepton channel in pp collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	2
54	Measurement of prompt open-charm production cross sections in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	2

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55	Measurement of the inclusive and differential $t\bar{t}$ cross sections in the single-lepton channel and EFT interpretation at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1.	1.6	3
56	Nuclear-modification factor of charged hadrons at forward and backward rapidity in p + Al and p + Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2020, 101, .	1.1	15
57	Measurement of J/ψ at forward and backward rapidity in p+p , p+Al , p+Au , and He3+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2020, 102, .	1.1	8
58	Search for a light pseudoscalar Higgs boson in the boosted $\tilde{t}\bar{\tilde{t}}$, final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	5
59	Search for decays of the 125 GeV Higgs boson into a Z boson and a $\tilde{t}\bar{\tilde{t}}$ meson. Journal of High Energy Physics, 2020, 2020, 1.	1.6	6
60	Production of $\tilde{t}\bar{\tilde{t}}$ and $\tilde{b}\bar{\tilde{b}}$ mesons in U+U collisions at $\sqrt{s_{NN}}=192$ GeV. Physical Review C, 2020, 102, .	1.1	5
61	Production of $\tilde{t}\bar{\tilde{t}}$ and $\tilde{b}\bar{\tilde{b}}$ mesons in U+U collisions at $\sqrt{s_{NN}}=192$ GeV. Physical Review C, 2020, 102, .	1.1	5
62	Search for supersymmetry in proton-proton collisions at $\sqrt{s} = 13$ TeV in events with high-momentum Z bosons and missing transverse momentum. Journal of High Energy Physics, 2020, 2020, 1.	1.6	0
63	Expanded Empirical Formula for Coulomb Final State Interaction in the Presence of LHC Sources. Physics of Particles and Nuclei, 2020, 51, 238-242.	0.2	8
64	Inclusive search for highly boosted Higgs bosons decaying to bottom quark-antiquark pairs in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	13
65	Nonperturbative-transverse-momentum broadening in dihadron angular correlations in $p\bar{p}$ collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1.	1.6	0
66	Nuclear Dependence of the Transverse Single-Spin Asymmetry in the Production of Charged Hadrons at Forward Rapidity in Polarized p+p , p+Al , and p+Au Collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2019, 123, 122001.	2.9	11
67	Coulomb Final State Interaction in Heavy Ion Collisions for LHC Sources. Universe, 2019, 5, 133.	0.9	9
68	Measurements of $\tilde{t}\bar{\tilde{t}}$ and $\tilde{b}\bar{\tilde{b}}$ pairs from open heavy flavor and Drell-Yan in $p\bar{p}$ collisions at $\sqrt{s} = 13$ TeV in events with high-momentum Z bosons and missing transverse momentum. Journal of High Energy Physics, 2020, 2020, 1.	1.6	23
69	Multiparticle azimuthal correlations for extracting event-by-event elliptic and triangular flow in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2019, 99, .	1.1	12
70	Creation of quark-gluon plasma droplets with three distinct geometries. Nature Physics, 2019, 15, 214-220.	6.5	184
71	Measurements of Multiparticle Correlations in $p\bar{p}$ Collisions at 200, 62.4, 39, and 19.6 GeV and $p\bar{p}$ Collisions at 200, 62.4, 39, and 19.6 GeV and $p\bar{p}$ Collisions at 200, 62.4, 39, and 19.6 GeV. Physical Review C, 2019, 99, .	2.9	43
72	Measurements of Multiparticle Correlations in $p\bar{p}$ Collisions at 200, 62.4, 39, and 19.6 GeV and $p\bar{p}$ Collisions at 200, 62.4, 39, and 19.6 GeV. Physical Review C, 2019, 99, .	2.9	43

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73	Nuclear Dependence of the Transverse-Single-Spin Asymmetry for Forward Neutron Production in Polarized p+A Collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2018, 120, 022001.	2.9	10
74	Low-momentum direct-photon measurement in Cu + Cu collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2018, 98, .	1.1	12
75	Production of η -meson production at forward rapidity in p+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2018, 98, .	1.6	2
76	Production of η -mesons in Cu + Cu collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2018, 98, .	1.1	14
77	Production of η -mesons in p+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2018, 98, .	2.9	36
78	Nonperturbative transverse-momentum-dependent effects in dihadron and direct photon-hadron angular correlations in p+p collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review D, 2018, 98, .	1.6	3
79	Centrality Dependent Λ -Stable Two-Pion Bose-Einstein Correlations in $(\sqrt{s_{NN}}) = 200$ GeV Au+Au Collisions at the PHENIX Experiment. Universe, 2018, 4, 31.	0.9	9
80	Λ -Stable two-pion Bose-Einstein correlations in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2018, 98, .	1.1	25
81	Measurement of emission-angle anisotropy via long-range angular correlations with high-rapidity hadrons in p+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2018, 98, .	1.6	13
82	Measurement of emission-angle anisotropy via long-range angular correlations with high-rapidity hadrons in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2018, 98, .	1.1	6
83	Single-spin asymmetry of η -meson production in p+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2018, 98, .	1.1	19
84	Single-spin asymmetry of η -meson production in Au+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2018, 98, .	1.6	12
85	PHENIX Collaboration. Nuclear Physics A, 2017, 967, 996-1003.	0.6	0
86	Measurements of e^+e^- pairs from open heavy flavor in p+p and d+A collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review C, 2017, 96, .	1.1	11
87	Cross section and transverse single-spin asymmetry of muons from open heavy flavor decays in polarized p+Au collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review D, 2017, 95, .	1.6	17
88	Measurements of $B^0 \rightarrow J/\psi$ at forward rapidity in p+p collisions at $\sqrt{s_{NN}}=510$ GeV. Physical Review D, 2017, 95, 1.6	1.6	10
89	Higher-order anisotropies in the blast-wave model: Disentangling flow and density field anisotropies. European Physical Journal A, 2017, 53, 1.	1.0	12
90	Rayleigh-Bénard convection in the generalized Oberbeck-Boussinesq system. Chaos, Solitons and Fractals, 2017, 103, 336-341.	2.5	11

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91	Measurements of azimuthal anisotropy and charged particle multiplicity in d + Au collisions at $\sqrt{s_{NN}}$ = 62.4, 39, and 19.6 GeV. Physical Review C, 2017, 96, .	1.1	33
92	B-meson production at forward and backward rapidity in p+p and Cu + Au collisions at $\sqrt{s_{NN}}$ =200 GeV. Physical Review C, 2017, 96, .	1.1	6
93	Higher-order anisotropies in the Buda-Lund model: Disentangling flow and density field anisotropies. European Physical Journal A, 2016, 52, 1.	1.0	4
94	HBT Radii from the Multipole Buda-Lund Model. Acta Physica Polonica B, Proceedings Supplement, 2016, 9, 269.	0.0	0
95	Exact solutions of relativistic perfect fluid hydrodynamics for a QCD Equation of State. European Physical Journal A, 2012, 48, 1.	1.0	35
96	production in collisions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 370, 239-248.	1.5	87