

Sandor Lokos

List of Publications by Year in descending order

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Version: 2024-02-01

96
papers

1,551
citations

361296

20
h-index

360920

35
g-index

97
all docs

97
docs citations

97
times ranked

5478
citing authors

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 1 | Creation of quark-gluon plasma droplets with three distinct geometries. Nature Physics, 2019, 15, 214-220. | 6.5 | 184 |
| 2 | Precision luminosity measurement in proton-proton collisions at $\sqrt{s} = 13, 13.6$ TeV in 2015 and 2016 at CMS. European Physical Journal C, 2021, 81, 800. | 1.4 | 123 |
| 3 | production in collisions at. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1996, 370, 239-248. | 1.5 | 87 |
| 4 | 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 |
| 5 | Evidence for Higgs boson decay to a pair of muons. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 54 |
| 6 | Measurements of Multiparticle Correlations in $\sqrt{s} = 13, 13.6$ TeV pp collisions at 200, 62.4, 39, and 19.6 GeV and Au collisions at $\sqrt{s} = 13, 13.6$ TeV. European Physical Journal C, 2021, 81, 800. | 2.9 | 43 |
| 7 | Measurement of the Higgs boson production rate in association with top quarks in final states with electrons, muons, and hadronically decaying tau leptons at $\sqrt{s} = 13, 13.6$ TeV. European Physical Journal C, 2021, 81, 488. | 1.4 | 40 |
| 8 | Pseudorapidity Dependence of Particle Production and Elliptic Flow in Asymmetric Nuclear Collisions of $\sqrt{s} = 13, 13.6$ TeV pp collisions at 200, 62.4, 39, and 19.6 GeV. Physical Review C, 2017, 96, 024907. | 2.9 | 36 |
| 9 | Exact solutions of relativistic perfect fluid hydrodynamics for a QCD Equation of State. European Physical Journal A, 2012, 48, 1. | 1.0 | 35 |
| 10 | Measurements of production cross sections of the Higgs boson in the four-lepton final state in proton-proton collisions at $\sqrt{s} = 13, 13.6$ TeV. European Physical Journal C, 2021, 81, 488. | 1.4 | 35 |
| 11 | Measurements of azimuthal anisotropy and charged-particle multiplicity in $\sqrt{s} = 13, 13.6$ TeV pp collisions at 200, 62.4, 39, and 19.6 GeV. Physical Review C, 2017, 96, 024907. | 1.1 | 33 |
| 12 | Search for dark matter produced in association with a leptonically decaying Z boson in proton-proton collisions at $\sqrt{s} = 13, 13.6$ TeV. European Physical Journal C, 2021, 81, 13. | 1.4 | 33 |
| 13 | Search for top squark pair production using dilepton final states in $\sqrt{s} = 13, 13.6$ TeV collision data collected at $\sqrt{s} = 13, 13.6$ TeV. European Physical Journal C, 2021, 81, 3. | 1.4 | 33 |
| 14 | 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 |
| 15 | 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 |
| 16 | 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 |
| 17 | Measurements of $\langle \mathbf{p}_T \mathbf{p}_T \rangle$ and $\langle \mathbf{p}_T \mathbf{p}_T \rangle$ in $\sqrt{s} = 13, 13.6$ TeV pp collisions at 200, 62.4, 39, and 19.6 GeV. Physical Review C, 2017, 96, 024907. | 1.1 | 25 |
| 18 | Measurements of $\langle \mathbf{p}_T \mathbf{p}_T \rangle$ and $\langle \mathbf{p}_T \mathbf{p}_T \rangle$ in $\sqrt{s} = 13, 13.6$ TeV pp collisions at 200, 62.4, 39, and 19.6 GeV. Physical Review C, 2017, 96, 024907. | 1.4 | 24 |

| # | ARTICLE | IF | CITATIONS |
|----|--|-----|-----------|
| 19 | Search for a light pseudoscalar Higgs boson in the boosted $\hat{1}/4\hat{1}/4\hat{1},\hat{1}$, final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 23 |
| 20 | Search for a light pseudoscalar Higgs boson in the boosted $\hat{1}/4\hat{1}/4\hat{1},\hat{1}$, final state in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 23 |
| 21 | Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13$, {TeV}. European Physical Journal C, 2021, 81, 723. | 1.1 | 19 |
| 22 | Search for charged Higgs bosons produced in vector boson fusion processes and decaying into vector boson pairs in proton-proton collisions at $\sqrt{s} = 13$, {TeV}. European Physical Journal C, 2021, 81, 723. | 1.4 | 19 |
| 23 | MUSIC: a model-unspecific search for new physics in proton-proton collisions at $\sqrt{s} = 13$, {TeV}. European Physical Journal C, 2021, 81, 629. | 1.4 | 18 |
| 24 | Combined searches for the production of supersymmetric top quark partners in proton-proton collisions at $\sqrt{s} = 13$, {TeV}. European Physical Journal C, 2021, 81, 970. | 1.4 | 18 |
| 25 | 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 |
| 26 | Cross section and transverse single-spin asymmetry of muons from open heavy-flavor decays in polarized p-p collisions at $\sqrt{s} = 13$, {TeV}. Physical Review D, 2017, 95, . | 1.6 | 17 |
| 27 | Nuclear-modification factor of charged hadrons at forward and backward rapidity in p + Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review C, 2020, 101, . | 1.1 | 15 |
| 28 | Production of mesons in Cu + Cu collisions at $\sqrt{s} = 13$, {TeV}. Physical Review C, 2020, 101, . | 1.1 | 14 |
| 29 | 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 |
| 30 | 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 |
| 31 | Cross section and longitudinal single-spin asymmetry of Λ and Λ_c production in p-p collisions at $\sqrt{s} = 13$, {TeV}. Physical Review D, 2017, 95, . | 1.6 | 13 |
| 32 | 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 |
| 33 | 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 |
| 34 | Higher-order anisotropies in the blast-wave model: Disentangling flow and density field anisotropies. European Physical Journal A, 2017, 53, 1. | 1.0 | 12 |
| 35 | Low-momentum direct-photon measurement in Cu + Cu collisions at $\sqrt{s} = 13$, {TeV}. Physical Review C, 2020, 101, . | 1.6 | 12 |
| 36 | Single-spin asymmetry of Λ and Λ_c production in p-p collisions at $\sqrt{s} = 13$, {TeV}. Physical Review D, 2017, 95, . | 1.6 | 12 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Multiparticle azimuthal correlations for extracting event-by-event elliptic and triangular flow in Au + Au collisions at $\sqrt{s} = 2.76$ GeV. Physical Review C, 2019, 99, . | 1.1 | 12 |
| 38 | 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 |
| 39 | Development and validation of HERWIG tunes from CMS underlying-event measurements. European Physical Journal C, 2021, 81, 312. | 1.4 | 12 |
| 40 | 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 |
| 41 | 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 |
| 42 | Rayleigh-Bénard convection in the generalized Oberbeck-Boussinesq system. Chaos, Solitons and Fractals, 2017, 103, 336-341. | 2.5 | 11 |
| 43 | 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 |
| 44 | Probing Gluon Spin-Momentum Correlations in Transversely Polarized Protons through Midrapidity Isolated Direct Photons in $p+Al$ Collisions at $\sqrt{s_{NN}}=200$ GeV. Physical Review Letters, 2019, 123, 122001. | 2.9 | 11 |
| 45 | Measurements of $B^0 \rightarrow J/\psi$ at forward rapidity in p+p collisions at $\sqrt{s}=510$ GeV. Physical Review D, 2017, 95, 16 | 1.6 | 10 |
| 46 | 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 |
| 47 | Measurement 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. | 1.6 | 10 |
| 48 | Centrality Dependent Long-Range 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 |
| 49 | Coulomb Final State Interaction in Heavy Ion Collisions for Long-Range Sources. Universe, 2019, 5, 133. | 0.9 | 9 |
| 50 | Angular analysis of the decay $B^+ \rightarrow K^+ \pi^+ \pi^-$ in proton-proton collisions at $\sqrt{s} = 8$ TeV. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 9 |
| 51 | Search for a heavy vector resonance decaying to a Z boson and a Higgs boson in proton-proton collisions at $\sqrt{s} = 13$ TeV. European Physical Journal C, 2021, 81, 688. | 1.4 | 9 |
| 52 | 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 |
| 53 | Expanded Empirical Formula for Coulomb Final State Interaction in the Presence of Long-Range Sources. Physics of Particles and Nuclei, 2020, 51, 238-242. | 0.2 | 8 |
| 54 | 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 |

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|----|---|-----|-----------|
| 55 | 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 |
| 56 | Kinematic dependence of azimuthal anisotropies in p+Au, d+Au, and He3+Au at sNN=200GeV. Physical Review C, 2022, 105, . | 1.1 | 8 |
| 57 | B -meson production at forward and backward rapidity in p+p and Cu + Au collisions at sNN=200 GeV. Physical Review C, 2017, 96, . | 1.1 | 6 |
| 58 | Measurement of emission-angle anisotropy via long-range angular correlations with high- p_T hadrons in p+Au collisions. Physical Review C, 2017, 96, . | 1.1 | 6 |
| 59 | Search for decays of the 125 GeV Higgs boson into a Z boson and a $\tilde{\chi}^0$ or $\tilde{\chi}^\pm$ meson. Journal of High Energy Physics, 2020, 2020, 1. | 1.6 | 6 |
| 60 | 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 |
| 61 | 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 |
| 62 | Measurement of $\tilde{\chi}^0$ nuclear modification at backward and forward rapidity in p+Au collisions. Physical Review C, 2017, 96, . | 1.1 | 6 |
| 63 | 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 | 5 |
| 64 | Production of $\tilde{\chi}^0$ and $\tilde{\chi}^\pm$ mesons in U+U collisions at sNN=192 GeV. Physical Review C, 2020, 102, . | 1.1 | 5 |
| 65 | 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 |
| 66 | In-medium modification of dijets in PbPb collisions at $\sqrt{s_{NN}} = 5.02$ TeV. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 5 |
| 67 | 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 |
| 68 | 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 |
| 69 | 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 |
| 70 | 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 |
| 71 | Higher-order anisotropies in the Buda-Lund model: Disentangling flow and density field anisotropies. European Physical Journal A, 2016, 52, 1. | 1.0 | 4 |
| 72 | Nonperturbative-transverse-momentum broadening in dihadron angular correlations in p+Au collisions at $\sqrt{s_{NN}} = 200$ GeV. Physical Review C, 2019, 99, . | 1.1 | 4 |

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|----|---|-----|-----------|
| 73 | 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 | 4 |
| 74 | 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 |
| 75 | Nonperturbative transverse-momentum-dependent effects in dihadron and direct photon-hadron angular correlations in p+p collisions at $\sqrt{s} = 200$ GeV. Physical Review D, 2018, 98, . | 1.6 | 3 |
| 76 | Search for the lepton flavor violating decay $\tilde{l}_i \rightarrow \tilde{l}_j \gamma$ in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 3 |
| 77 | Transverse momentum dependent forward neutron single spin asymmetries in transversely polarized collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 103, . | 1.6 | 3 |
| 78 | Study of Drell-Yan dimuon production in proton-lead collisions at $\sqrt{s_{NN}} = 8.16$ TeV. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 3 |
| 79 | 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 |
| 80 | 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 |
| 81 | Measurements of the differential cross sections of the production of Z + jets and \tilde{t}^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 |
| 82 | Measurements of the differential cross sections of the production of Z + jets and \tilde{t}^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 |
| 83 | Measurement of the Z boson differential production cross section using its invisible decay mode (Z $\rightarrow \nu\bar{\nu}$) in proton-proton collisions at $\sqrt{s} = 13$ TeV. Journal of High Energy Physics, 2021, 2021, 1. | 1.6 | 2 |
| 84 | Measurements of angular distance and momentum ratio distributions in three-jet and Z + two-jet final states in pp collisions. European Physical Journal C, 2021, 81, 852. | 1.4 | 2 |
| 85 | 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 |
| 86 | Transverse single spin asymmetries of forward neutrons in pp collisions at $\sqrt{s} = 13$ TeV. Physical Review D, 2021, 103, . | 1.6 | 2 |
| 87 | 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 |
| 88 | 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 |
| 89 | 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 |
| 90 | 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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|----|---|-----|-----------|
| 91 | 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 |
| 92 | 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 |
| 93 | Observation of $B^0 \rightarrow \psi(2S)K^0_{\text{charm}}$ and $B^0_{\text{charm}} \rightarrow \psi(2S)K^0_{\text{charm}}$ decays. European Physical Journal C, 2022, 82, . | 1.4 | 1 |
| 94 | PHENIX Collaboration. Nuclear Physics A, 2017, 967, 996-1003. Production of $b\bar{b}$ at forward rapidity in | 0.6 | 0 |
| 95 | collisions at $\sqrt{s} = 2.76$ TeV. Nuclear Physics A, 2017, 967, 996-1003. | 1.6 | 0 |
| 96 | HBT Radii from the Multipole Buda-Lund Model. Acta Physica Polonica B, Proceedings Supplement, 2016, 9, 269. | 0.0 | 0 |