# Krzysztof Cichy

List of Publications by Year
in descending order



| 64 | 2,080 | 257450 24 | 233421 45 |
|---|---|---|---|
| papers | citations | h-index | g-index |

| 64 | 64 | 64 | 818 |
|---|---|---|---|
| all docs | docs citations | times ranked | citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | The mass spectrum of the Schwinger model with matrix product states. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 138 |
| 2 | Lattice calculation of parton distributions. Physical Review D, 2015, 92, . | 4.7 | 137 |
| 3 | A complete non-perturbative renormalization prescription for quasi-PDFs. Nuclear Physics B, 2017, 923, 394-415. | 2.5 | 137 |
| 4 | A Guide to Light-Cone PDFs from Lattice QCD: An Overview of Approaches, Techniques, and Results. Advances in High Energy Physics, 2019, 2019, 1-68. | 1.1 | 127 |
| 5 | Light-Cone Parton Distribution Functions from Lattice QCD. Physical Review Letters, 2018, 121, 112001. | 7.8 | 119 |
| 6 | Review on novel methods for lattice gauge theories. Reports on Progress in Physics, 2020, 83, 024401. | 20.1 | 100 |
| 7 | Updated lattice results for parton distributions. Physical Review D, 2017, 96, . | 4.7 | 100 |
| 8 | Transversity parton distribution functions from lattice QCD. Physical Review D, 2018, 98, . | 4.7 | 91 |
| 9 | Density Induced Phase Transitions in the Schwinger Model: A Study with Matrix Product States. Physical Review Letters, 2017, 118, 071601. | 7.8 | 67 |
| 10 | Systematic uncertainties in parton distribution functions from lattice QCD simulations at the physical point. Physical Review D, 2019, 99, . | 4.7 | 67 |
| 11 | Evidence for the existence of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>u</mml:mi><mml:mi>d</mml:mi><mml:mover accent="true"><mml:mrow><mml:mi>b</mml:mi></mml:mrow><mml:mrow><mml:mo stretchy="false">Â¯</mml:mo></mml:mrow></mml:mover><mml:mover accent="true"><mml:mrow><mml:mi>b</mml:mi></mml:mrow><mml:mrow><mml:mo stretchy="false">Â¯</mml:mo></mml:mrow></mml:mover></mml:mrow></mml:math> and the nonexistence | 4.7 | 64 |
| 12 | Unpolarized and Helicity Generalized Parton Distributions of the Proton within Lattice QCD. Physical Review Letters, 2020, 125, 262001. | 7.8 | 63 |
| 13 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>B</mml:mi><mml:mi>B</mml:mi></mml:math>interactions with static bottom quarks from lattice QCD. Physical Review D, 2016, 93, . | 4.7 | 62 |
| 14 | Efficient Basis Formulation for ( 1+1 )-Dimensional SU(2) Lattice Gauge Theory: Spectral Calculations with Matrix Product States. Physical Review X, 2017, 7, . | 8.9 | 56 |
| 15 | Chiral condensate in the Schwinger model with matrix product operators. Physical Review D, 2016, 93, . | 4.7 | 55 |
| 16 | Thermal evolution of the Schwinger model with matrix product operators. Physical Review D, 2015, 92, . | 4.7 | 54 |
| 17 | Parton distributions from lattice data: the nonsinglet case. Journal of High Energy Physics, 2019, 2019, 1. | 4.7 | 42 |
| 18 | Flavor nonsinglet parton distribution functions from lattice QCD at physical quark masses via the pseudodistribution approach. Physical Review D, 2021, 103, . | 4.7 | 35 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Parton distribution functions of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msup><mml:mi mathvariant="normal">Î”</mml:mi><mml:mo>+</mml:mo></mml:msup></mml:math> on the lattice. Physical Review D, 2020, 102, . | 4.7 | 34 |
| 20 | Insights on proton structure from lattice QCD: The twist-3 parton distribution function <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>g</mml:mi><mml:mi>T</mml:mi></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mi>x</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math>. Physical Review D, 2020, 102, . | 4.7 | 32 |
| 21 | Lattice continuum-limit study of nucleon parton quasidistribution functions. Physical Review D, 2021, 103, . | 4.7 | 32 |
| 22 | One-loop matching for the twist-3 parton distribution <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>g</mml:mi><mml:mi>T</mml:mi></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mi>x</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math>. Physical Review D, 2020, 102, . | 4.7 | 30 |
| 23 | Lattice QCD Study of Transverse-Momentum Dependent Soft Function. Physical Review Letters, 2022, 128, 062002. | 7.8 | 30 |
| 24 | The role of zero-mode contributions in the matching for the twist-3 PDFs <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>e</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mi>x</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>h</mml:mi><mml:mi>L</mml:mi></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mi>x</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math>. | 4.7 | 29 |
| 25 | Twisted mass, overlap and Creutz fermions: Cut-off effects at tree-level of perturbation theory. Nuclear Physics B, 2008, 800, 94-108. | 2.5 | 24 |
| 26 | Chiral condensate from the twisted mass Dirac operator spectrum. Journal of High Energy Physics, 2013, 2013, 1. | 4.7 | 24 |
| 27 | Continuum limit of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>D</mml:mi></mml:math> meson, <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>D</mml:mi><mml:mi>s</mml:mi></mml:msub></mml:math> meson, and charmonium spectrum from <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>N</mml:mi> | 4.7 | 24 |
| 28 | Comparison of topological charge definitions in Lattice QCD. European Physical Journal C, 2020, 80, 1. | 3.9 | 24 |
| 29 | Non-perturbative renormalization in coordinate space for maximally twisted mass fermions with tree-level Symanzik improved gauge action. Nuclear Physics B, 2012, 865, 268-290. | 2.5 | 23 |
| 30 | Towards overcoming the Monte Carlo sign problem with tensor networks. EPJ Web of Conferences, 2017, 137, 04001. | 0.3 | 21 |
| 31 | Topological susceptibility from twisted mass fermions using spectral projectors and the gradient flow. Physical Review D, 2018, 97, . | 4.7 | 20 |
| 32 | Parton distribution functions beyond leading twist from lattice QCD: The <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>h</mml:mi><mml:mi>L</mml:mi></mml:msub><mml:mo stretchy="false">(</mml:mo><mml:mi>x</mml:mi><mml:mo stretchy="false">)</mml:mo></mml:math> case. Physical Review D, 2021, 104, . | 4.7 | 19 |
| 33 | Non-perturbative test of the Witten-Veneziano formula from lattice QCD. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 18 |
| 34 | Computation of parton distributions from the quasi-PDF approach at the physical point. EPJ Web of Conferences, 2018, 175, 14008. | 0.3 | 16 |
| 35 | Transversity GPDs of the proton from lattice QCD. Physical Review D, 2022, 105, . | 4.7 | 15 |
| 36 | Topological susceptibility from the twisted mass Dirac operator spectrum. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 14 |

| # | Article | IF | Citations |
|---|---|---|---|
| 37 | Overlap valence quarks on a twisted mass sea: A case study for mixed action lattice QCD. Nuclear Physics B, 2013, 869, 131-163. | 2.5 | 13 |
| 38 | Lattice Hamiltonian approach to the massless Schwinger model: Precise extraction of the mass gap. Computer Physics Communications, 2013, 184, 1666-1672. | 7.5 | 12 |
| 39 | Investigation ofBBÌ...four-quark systems using lattice QCD. Journal of Physics: Conference Series, 2016, 742, 012006. | 0.4 | 11 |
| 40 | Phase structure of the (<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML") Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 627 Td massive Thirring model from matrix product states. Physical Review D, 2019, 100, . | 4.7 | 10 |
| 41 | Quark mass anomalous dimension and Î› MS Â¯ $$ {varLambda}_{overline{mathrm{MS}}} $$ from the twisted mass Dirac operator spectrum. Journal of High Energy Physics, 2014, 2014, 1. | 4.7 | 9 |
| 42 | Running Coupling Constant from Position-Space Current-Current Correlation Functions in Three-Flavor Lattice QCD. Physical Review Letters, 2020, 125, 242002. | 7.8 | 9 |
| 43 | Matrix Product States for Lattice Field Theories. , 2014, , . | | 8 |
| 44 | Overview of lattice calculations of the x-dependence of PDFs, GPDs and TMDs. EPJ Web of Conferences, 2022, 258, 01005. | 0.3 | 8 |
| 45 | Thermal evolution of the 1-flavour Schwinger model with using Matrix Product States. , 2016, , . | | 7 |
| 46 | Continuum limit of overlap valence quarks on a twisted mass sea. Nuclear Physics B, 2011, 847, 179-196. | 2.5 | 6 |
| 47 | Competition between Abelian and Zeeman magnetic field effects in a two dimensional ultracold gas of fermions. Annals of Physics, 2015, 354, 89-100. | 2.8 | 5 |
| 48 | Short distance singularities and automatic O(a) improvement: the cases of the chiral condensate and the topological susceptibility. Journal of High Energy Physics, 2015, 2015, 1. | 4.7 | 5 |
| 49 | Non-perturbative running of renormalization constants from correlators in coordinate space using step scaling. Nuclear Physics B, 2016, 913, 278-300. | 2.5 | 5 |
| 50 | Tensor Network study of the (1+1)-dimensional Thirring Model. EPJ Web of Conferences, 2018, 175, 11017. | 0.3 | 5 |
| 51 | On systematic effects in the numerical solutions of the JIMWLK equation. European Physical Journal C, 2021, 81, 1. | 3.9 | 4 |
| 52 | Topological susceptibility and chiral condensate with $N_f=2+1+1$ dynamical flavors of maximally twisted mass fermions.. , 2012, , . | | 3 |
| 53 | Comparison of different lattice definitions of the topological charge. , 2015, , . | | 3 |
| 54 | Twist-3 partonic distributions from lattice QCD. SciPost Physics Proceedings, 2022, , . | 0.4 | 3 |

| # | Article | IF | Citations |
|---|---|---|---|
| 55 | Progress in computing parton distribution functions from the quasi-PDF approach. EPJ Web of Conferences, 2018, 175, 06021. | 0.3 | 2 |
| 56 | Topological Susceptibility under Gradient Flow. EPJ Web of Conferences, 2018, 175, 11024. | 0.3 | 2 |
| 57 | Computing the Topological Susceptibility from Fixed Topology QCD Simulations. Acta Physica Polonica B, Proceedings Supplement, 2016, 9, 635. | 0.1 | 2 |
| 58 | Wilson chiral perturbation theory for dynamical twisted mass fermions vs lattice dataâ€"A case study. Computer Physics Communications, 2019, 237, 143-153. | 7.5 | 1 |
| 59 | Tensors cast their nets for quarks. Nature Physics, 2021, 17, 762-763. | 16.7 | 1 |
| 60 | Lattice Hamiltonian approach to the Schwinger model. , 2015, , . | | 1 |
| 61 | Twisted Mass Wilson $chi $-PT Versus Lattice Data: a Case Study. Acta Physica Polonica B, Proceedings Supplement, 2016, 9, 427. | 0.1 | 1 |
| 62 | Zero modes and matching for the twist-3 PDFs. SciPost Physics Proceedings, 2022, , . | 0.4 | 1 |
| 63 | flavours of twisted mass quarks: Cut-off effects at tree-level of perturbation theory. Nuclear Physics B, 2011, 847, 17-37. | 2.5 | 0 |
| 64 | Continuum-Limit Scaling of Chirally Symmetric Fermions as Valence Quarks. , 2010, , 451-462. | | 0 |