

Michael Engelhardt

List of Publications by Year in descending order

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Version: 2024-02-01

49

papers

2,030

citations

236925

25

h-index

243625

44

g-index

49

all docs

49

docs citations

49

times ranked

921

citing authors

| # | ARTICLE | IF | CITATIONS |
|----|---|------|-----------|
| 1 | Determination of the Collins-Soper Kernel from Lattice QCD. <i>Journal of High Energy Physics</i> , 2021, 2021, 1. | 4.7 | 38 |
| 2 | Energy of a pointlike neutron in an external electromagnetic field. <i>Physical Review D</i> , 2021, 104, . | 4.7 | 0 |
| 3 | From Ji to Jaffe-Manohar orbital angular momentum in lattice QCD using a direct derivative method. <i>Physical Review D</i> , 2020, 102, . | 4.7 | 11 |
| 4 | Nucleon axial, scalar, and tensor charges using lattice QCD at the physical pion mass. <i>Physical Review D</i> , 2019, 99, . | 4.7 | 35 |
| 5 | Excited-state effects in nucleon structure on the lattice using hybrid interpolators. <i>Physical Review D</i> , 2019, 100, . | 4.7 | 3 |
| 6 | Hadrons and nuclei. <i>European Physical Journal A</i> , 2019, 55, 1. | 2.5 | 58 |
| 7 | Parton distributions and lattice QCD calculations: A community white paper. <i>Progress in Particle and Nuclear Physics</i> , 2018, 100, 107-160. | 14.4 | 186 |
| 8 | Lorentz invariance and QCD equation of motion relations for generalized parton distributions and the dynamical origin of proton orbital angular momentum. <i>Physical Review D</i> , 2018, 98, . | 4.7 | 10 |
| 9 | Computing the nucleon charge and axial radii directly at $\langle \text{mml:math} \text{ xmlns:mml="http://www.w3.org/1998/Math/MathML"} \text{ display="block">\langle \text{mml:mrow} \langle \text{mml:msup} \langle \text{mml:mrow} \langle \text{mml:mi} \rangle Q \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \langle \text{mml:mrow} \langle \text{mml:math} \rangle \rangle \rangle \rangle \rangle$ in lattice QCD. <i>Physical Review D</i> , 2018, 97, . | 4.7 | 35 |
| 10 | Quark orbital dynamics in the proton from lattice QCD: From Ji to Jaffe-Manohar orbital angular momentum. <i>Physical Review D</i> , 2017, 95, . | 4.7 | 28 |
| 11 | Up, down, and strange nucleon axial form factors from lattice QCD. <i>Physical Review D</i> , 2017, 95, . | 4.7 | 70 |
| 12 | Nucleon transverse momentum-dependent parton distributions in lattice QCD: Renormalization patterns and discretization effects. <i>Physical Review D</i> , 2017, 96, . | 4.7 | 45 |
| 13 | An equatorward force acting on large floating ice masses: Polfluchtkraft. <i>Annals of Glaciology</i> , 2017, 58, 144-151. | 1.4 | 2 |
| 14 | Lattice QCD calculations of transverse momentum-dependent parton distributions (TMDs). <i>EPJ Web of Conferences</i> , 2016, 112, 01008. | 0.3 | 1 |
| 15 | Parton transverse momentum and orbital angular momentum distributions. <i>Physical Review D</i> , 2016, 94, . | 4.7 | 26 |
| 16 | Model of random center vortex lines in continuous 2+1 -dimensional spacetime. <i>Physical Review D</i> , 2016, 94, . | 4.7 | 9 |
| 17 | Confining bond rearrangement in the random center vortex model. <i>Physical Review D</i> , 2016, 93, . | 4.7 | 10 |
| 18 | Lattice QCD study of the Boer-Mulders effect in a pion. <i>Physical Review D</i> , 2016, 93, . | 4.7 | 42 |

| # | ARTICLE | | IF | CITATIONS |
|----|--|-----|-----|-----------|
| 19 | Controlling excited-state contamination in nucleon matrix elements. Physical Review D, 2016, 93, . | 4.7 | 36 | |
| 20 | Random center vortex lines in continuous 3D space-time. AIP Conference Proceedings, 2016, , . | 0.4 | 6 | |
| 21 | High-precision calculation of the strange nucleon electromagnetic form factors. Physical Review D, 2015, 92, . | 4.7 | 54 | |
| 22 | Approaching SU(2) gauge dynamics with smeared Z(2) vortices. Physical Review D, 2015, 92, . | 4.7 | 13 | |
| 23 | The Boer-Mulders Transverse Momentum Distribution in the Pion and its Evolution in Lattice QCD. International Journal of Modern Physics Conference Series, 2015, 37, 1560034. | 0.7 | 2 | |
| 24 | Lattice QCD Studies of Transverse Momentum-Dependent Parton Distribution Functions. Few-Body Systems, 2015, 56, 447-453. | 1.5 | 3 | |
| 25 | Sivers and Boer-Mulders observables from lattice QCD. Physical Review D, 2012, 85, . | 4.7 | 92 | |
| 26 | TRANSVERSE MOMENTUM-DEPENDENT PARTON DISTRIBUTIONS FROM LATTICE QCD. International Journal of Modern Physics Conference Series, 2012, 20, 153-161. | 0.7 | 1 | |
| 27 | Exploration of the electric spin polarizability of the neutron in lattice QCD. , 2012, , . | | 4 | |
| 28 | Center vortex model for the infrared sector of SU(3) Yang-Mills theory: Topological susceptibility. Physical Review D, 2011, 83, . | 4.7 | 20 | |
| 29 | Nucleon structure from mixed action calculations using $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ display="inline" $\langle \text{mml:mn} \rangle 2 \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ flavors of asqtad sea and domain wall valence fermions. Physical Review D, 2010, 82, . | 4.7 | 195 | |
| 30 | Nucleon electromagnetic form factors from lattice QCD using $\text{xmlns:mml}=\text{"http://www.w3.org/1998/Math/MathML"}$ display="inline" $\langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 1 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle$ flavor domain wall fermions on fine lattices and chiral perturbation theory. Physical Review D, 2010, 81, . | 4.7 | 66 | |
| 31 | Progress toward the chiral regime in lattice QCD calculations of the neutron electric polarizability. , 2010, , . | | 2 | |
| 32 | Nucleon generalized parton distributions from full lattice QCD. Physical Review D, 2008, 77, . | 4.7 | 204 | |
| 33 | Neutron electric polarizability from unquenched lattice QCD using the background field approach. Physical Review D, 2007, 76, . | 4.7 | 42 | |
| 34 | Confinement and center vortex dynamics in different gauge groups. AIP Conference Proceedings, 2007, , . | 0.4 | 1 | |
| 35 | Center vortex model for the infrared sector of SU(4) Yang-Mills theory: String tensions and deconfinement transition. Physical Review D, 2006, 73, . | 4.7 | 5 | |
| 36 | Center vortex model for Sp(2) Yang-Mills theory. Physical Review D, 2006, 74, . | 4.7 | 4 | |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Center Vortex Model for the Infrared Sector of SU(3) Yang-Mills Theory. AIP Conference Proceedings, 2005, ,. | 0.4 | 0 |
| 38 | Generation of confinement and other nonperturbative effects by infrared gluonic degrees of freedom. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 92-105. | 0.4 | 23 |
| 39 | Center vortex model for the infrared sector of SU(3) Yang-Mills theory: Vortex free energy. Physical Review D, 2005, 71, . | 4.7 | 16 |
| 40 | Center vortex model for the infrared sector of SU(3) Yang-Mills theory: Baryonic potential. Physical Review D, 2004, 70, . | 4.7 | 13 |
| 41 | Center vortex model for the infrared sector of SU(3) Yang-Mills theory: Confinement and deconfinement. Nuclear Physics B, 2004, 685, 227-248. | 2.5 | 56 |
| 42 | Writhe of center vortices and topological charge: An explicit example. Physical Review D, 2003, 68, . | 4.7 | 19 |
| 43 | Center vortex model for the infrared sector of Yang-Mills theory: Quenched Dirac spectrum and chiral condensate. Nuclear Physics B, 2002, 638, 81-110. | 2.5 | 45 |
| 44 | Topological susceptibility of Yang-Mills center projection vortices. Physical Review D, 2001, 64, . | 4.7 | 45 |
| 45 | Deconfinement in SU(2) Yang-Mills theory as a center vortex percolation transition. Physical Review D, 2000, 61, . | 4.7 | 123 |
| 46 | Center vortex model for the infrared sector of Yang-Mills theory: Topological susceptibility. Nuclear Physics B, 2000, 585, 614-633. | 2.5 | 65 |
| 47 | Center vortex model for the infrared sector of Yang-Mills theory: Confinement and deconfinement. Nuclear Physics B, 2000, 585, 591-613. | 2.5 | 68 |
| 48 | Center projection vortices in continuum Yang-Mills theory. Nuclear Physics B, 2000, 567, 249-292. | 2.5 | 129 |
| 49 | Center vortices of Yang-Mills theory at finite temperatures. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 1999, 452, 301-309. | 4.1 | 69 |