Michael Engelhardt

List of Publications by Year
in descending order

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		236925	243625
49	2,030	25	44
papers	citations	h-index	g-index

49	49	49	921
all docs	docs citations	times ranked	citing authors

#	Article	IF	Citations
1	Nucleon generalized parton distributions from full lattice QCD. Physical Review D, 2008, 77, .	4.7	204
2	Nucleon structure from mixed action calculations using<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:math>flavors of asqtad sea and domain wall valence fermions. Physical Review D, 2010, 82, .	4.7	195
3	Parton distributions and lattice QCD calculations: A community white paper. Progress in Particle and Nuclear Physics, 2018, 100, 107-160.	14.4	186
4	Center projection vortices in continuum Yangâ€“Mills theory. Nuclear Physics B, 2000, 567, 249-292.	2.5	129
5	Deconfinement in SU(2) Yang-Mills theory as a center vortex percolation transition. Physical Review D, 2000, 61, .	4.7	123
6	Sivers and Boer-Mulders observables from lattice QCD. Physical Review D, 2012, 85, .	4.7	92
7	Up, down, and strange nucleon axial form factors from lattice QCD. Physical Review D, 2017, 95, .	4.7	70
8	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
9	Center vortex model for the infrared sector of Yangâ€“Mills theory â€” confinement and deconfinement. Nuclear Physics B, 2000, 585, 591-613.	2.5	68
10	Nucleon electromagnetic form factors from lattice QCD using<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>2</mml:mn><mml:mo>+</mml:mo><mml:mn>1</mml:mn></mml:math>flavor domain wall fermions on fine lattices and chiral perturbation theory. Physical Review D, 2010, 81, .	4.7	66
11	Center vortex model for the infrared sector of Yangâ€“Mills theory â€” topological susceptibility. Nuclear Physics B, 2000, 585, 614-633.	2.5	65
12	Hadrons and nuclei. European Physical Journal A, 2019, 55, 1.	2.5	58
13	Center vortex model for the infrared sector of SU(3) Yangâ€“Mills theoryâ€”confinement andÂdeconfinement. Nuclear Physics B, 2004, 685, 227-248.	2.5	56
14	High-precision calculation of the strange nucleon electromagnetic form factors. Physical Review D, 2015, 92, .	4.7	54
15	Topological susceptibility of Yang-Mills center projection vortices. Physical Review D, 2001, 64, .	4.7	45
16	Center vortex model for the infrared sector of Yangâ€“Mills theoryâ€”quenched Dirac spectrum and chiral condensate. Nuclear Physics B, 2002, 638, 81-110.	2.5	45
17	Nucleon transverse momentum-dependent parton distributions in lattice QCD: Renormalization patterns and discretization effects. Physical Review D, 2017, 96, .	4.7	45
18	Neutron electric polarizability from unquenched lattice QCD using the background field approach. Physical Review D, 2007, 76, .	4.7	42

#	Article	IF	Citations
19	Lattice QCD study of the Boer-Mulders effect in a pion. Physical Review D, 2016, 93, .	4.7	42
20	Determination of the Collins-Soper Kernel from Lattice QCD. Journal of High Energy Physics, 2021, 2021, 1.	4.7	38
21	Controlling excited-state contamination in nucleon matrix elements. Physical Review D, 2016, 93, .	4.7	36
22	Computing the nucleon charge and axial radii directly at <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>Q</mml:mi></mml:mrow><mml:mrow><mml:mn>2</mml:mn></mml:mrow></mml:msup></mrow></mml:math> in lattice QCD. Physical Review D, 2018, 97, .	4.7	35
23	Nucleon axial, scalar, and tensor charges using lattice QCD at the physical pion mass. Physical Review D, 2019, 99, .	4.7	35
24	Quark orbital dynamics in the proton from lattice QCD: From Ji to Jaffe-Manohar orbital angular momentum. Physical Review D, 2017, 95, .	4.7	28
25	Parton transverse momentum and orbital angular momentum distributions. Physical Review D, 2016, 94, .	4.7	26
26	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
27	Center vortex model for the infrared sector of SU(3) Yang-Mills theory: Topological susceptibility. Physical Review D, 2011, 83, .	4.7	20
28	Writhe of center vortices and topological charge: An explicit example. Physical Review D, 2003, 68, .	4.7	19
29	Center vortex model for the infrared sector ofSU(3)Yang-Mills theory: Vortex free energy. Physical Review D, 2005, 71, .	4.7	16
30	Center vortex model for the infrared sector ofSU(3)Yang-Mills theory: Baryonic potential. Physical Review D, 2004, 70, .	4.7	13
31	ApproachingSU(2)gauge dynamics with smearedZ(2)vortices. Physical Review D, 2015, 92, .	4.7	13
32	From Ji to Jaffe-Manohar orbital angular momentum in lattice QCD using a direct derivative method. Physical Review D, 2020, 102, .	4.7	11
33	Confining bond rearrangement in the random center vortex model. Physical Review D, 2016, 93, .	4.7	10
34	Lorentz invariance and QCD equation of motion relations for generalized parton distributions and the dynamical origin of proton orbital angular momentum. Physical Review D, 2018, 98, .	4.7	10
35	Model of random center vortex lines in continuous 2+1 -dimensional spacetime. Physical Review D, 2016, 94, .	4.7	9
36	Random center vortex lines in continuous 3D space-time. AIP Conference Proceedings, 2016, , .	0.4	6

#	Article	IF	Citations
37	Center vortex model for the infrared sector ofSU(4)Yang-Mills theory: String tensions and deconfinement transition. Physical Review D, 2006, 73, .	4.7	5
38	Center vortex model forSp(2)Yang-Mills theory. Physical Review D, 2006, 74, .	4.7	4
39	Exploration of the electric spin polarizability of the neutron in lattice QCD. , 2012, , .		4
40	Lattice QCD Studies of Transverse Momentum-Dependent Parton Distribution Functions. Few-Body Systems, 2015, 56, 447-453.	1.5	3
41	Excited-state effects in nucleon structure on the lattice using hybrid interpolators. Physical Review D, 2019, 100, .	4.7	3
42	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
43	An equatorward force acting on large floating ice masses: Polfluchtkraft. Annals of Glaciology, 2017, 58, 144-151.	1.4	2
44	Progress toward the chiral regime in lattice QCD calculations of the neutron electric polarizability. , 2010, , .		2
45	Confinement and center vortex dynamics in different gauge groups. AIP Conference Proceedings, 2007, , .	0.4	1
46	TRANSVERSE MOMENTUM-DEPENDENT PARTON DISTRIBUTIONS FROM LATTICE QCD. International Journal of Modern Physics Conference Series, 2012, 20, 153-161.	0.7	1
47	Lattice QCD calculations of transverse momentum-dependent parton distributions (TMDs). EPJ Web of Conferences, 2016, 112, 01008.	0.3	1
48	Center Vortex Model for the Infrared Sector of SU(3) Yang-Mills Theory. AIP Conference Proceedings, 2005, , .	0.4	0
49	Energy of a pointlike neutron in an external electromagnetic field. Physical Review D, 2021, 104, .	4.7	0