

Evan Berkowitz

List of Publications by Year in descending order

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36
papers

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623734

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36
all docs

36
docs citations

36
times ranked

627
citing authors

#	ARTICLE	IF	CITATIONS
1	A per-cent-level determination of the nucleon axial coupling from quantum chromodynamics. <i>Nature</i> , 2018, 558, 91-94.	27.8	146
2	Lattice QCD input for axion cosmology. <i>Physical Review D</i> , 2015, 92, .	4.7	89
3	Two-nucleon higher partial-wave scattering from lattice QCD. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2017, 765, 285-292.	4.1	68
4	Precision lattice test of the gauge/gravity duality at large N . <i>Physical Review D</i> , 2016, 94, .	4.7	51
5	Heavy Physics Contributions to Neutrinoless Double Beta Decay from QCD. <i>Physical Review Letters</i> , 2018, 121, 172501.	7.8	45
6	Composite bosonic baryon dark matter on the lattice.	4.7	39
7	Detecting Stealth Dark Matter Directly through Electromagnetic Polarizability. <i>Physical Review Letters</i> , 2015, 115, 171803.	7.8	37
8	Two-nucleon S -wave interactions at the $SU(3)$ flavor-symmetric point with u -quark interactions.	2.9	30
9	From $M\bar{A}$ domain-wall fermions solved on gradient-flowed HISQ ensembles. <i>Physical Review D</i> , 2020, 102, .	4.7	25
10	Gauged and ungauged: a nonperturbative test. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	24
11	Semimetal \leftrightarrow Mott insulator quantum phase transition of the Hubbard model on the honeycomb lattice. <i>Physical Review B</i> , 2020, 102, .	3.2	20
12	Toward holographic reconstruction of bulk geometry from lattice simulations. <i>Journal of High Energy Physics</i> , 2018, 2018, 1.	4.7	19
13	Machine learning to alleviate Hubbard-model sign problems. <i>Physical Review B</i> , 2021, 103, .	3.2	19
14	Chaos in matrix models and black hole evaporation. <i>Physical Review D</i> , 2016, 94, .	4.7	16
15	A microscopic description of black hole evaporation via holography. <i>International Journal of Modern Physics D</i> , 2016, 25, 1644002.	2.1	13
16	$M\bar{A}$ domain-wall fermions on gradient-flowed dynamical HISQ ensembles. <i>Physical Review D</i> , 2017, 96, .	4.7	12
17	Job Management and Task Bundling. <i>EPJ Web of Conferences</i> , 2018, 175, 09007.	0.3	11
18	Avoiding ergodicity problems in lattice discretizations of the Hubbard model. <i>Physical Review B</i> , 2019, 100, .	3.2	10

#	ARTICLE	IF	CITATIONS
19	Setting the MÃ¶bius domain wall fermion on gradient-flowed HISQ action using the omega baryon mass and the gradient-flow scales $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:msub}> \langle \text{mml:mi}> t </\text{mml:mi}> \langle \text{mml:mn}> 0 </\text{mml:mn}> </\text{mml:msub}> </\text{mml:math}>$ and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:msub}> \langle \text{mml:mi}> w </\text{mml:mi}> \langle \text{mml:mn}> 0 </\text{mml:mn}> </\text{mml:msub}> </\text{mml:math}>$.	4.7	9
20	Antiferromagnetic character of the quantum phase transition in the Hubbard model on the honeycomb lattice. Physical Review B, 2021, 104, .	3.2	9
21	Nucleon axial coupling from Lattice QCD. EPJ Web of Conferences, 2018, 175, 01008.	0.3	7
22	Simulating the Weak Death of the Neutron in a Femtoscale Universe with Near-Exascale Computing. , 2018, , .		6
23	Structure Factors of Neutron Matter at Finite Temperature. Physical Review Letters, 2021, 126, 132701.	7.8	6
24	Sampling general N-body interactions with auxiliary fields. Europhysics Letters, 2017, 119, 60006.	2.0	5
25	Extracting the Single-Particle Gap in Carbon Nanotubes with Lattice Quantum Monte Carlo. EPJ Web of Conferences, 2018, 175, 03009.	0.3	5
26	Calm Multi-Baryon Operators. EPJ Web of Conferences, 2018, 175, 05029.	0.3	5
27	Neutrinoless double beta decay from lattice QCD. , 2016, , .		5
28	Stable vortex loops in two-species BECs. Journal of Physics B: Atomic, Molecular and Optical Physics, 2012, 45, 225301.	1.5	4
29	Vortons in dense quark matter. Physical Review D, 2011, 84, .	4.7	3
30	NUCLEAR CONDENSATE AND HELIUM WHITE DWARFS. Astrophysical Journal, 2012, 749, 5.	4.5	3
31	Thermodynamics of nuclear condensates and phase transitions in white dwarfs. Physical Review D, 2014, 89, .	4.7	3
32	The Ising model with Hybrid Monte Carlo. Computer Physics Communications, 2021, 265, 107978.	7.5	2
33	Job Management with mpi_jm. Lecture Notes in Computer Science, 2018, , 432-439.	1.3	2
34	Detailed analysis of excited-state systematics in a lattice QCD calculation of $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"> \langle \text{mml:msub}> \langle \text{mml:mi}> g </\text{mml:mi}> \langle \text{mml:mi}> A </\text{mml:mi}> \langle \text{mml:msub}> \langle \text{mml:mi}> 2 </\text{mml:mi}> </\text{mml:math}>$ Physical Review C, 2022, 105, .	2.0	2
35	Electron shielding of vortons in high-density quark matter. Physical Review D, 2012, 85, .	4.7	1
36	Hubbard-Stratonovich-like Transformations for Few-Body Interactions. EPJ Web of Conferences, 2018, 175, 11012.	0.3	0