

Waseem Kamleh

List of Publications by Year in descending order

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116
papers

1,166
citations

361413

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docs citations

116
times ranked

574
citing authors

#	ARTICLE	IF	CITATIONS
1	Lattice QCD Evidence that the $\langle \bar{\psi} \psi \rangle$ is not a good order parameter for chiral symmetry breaking in SU(3) gauge theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 373-377.	4.1	34
2	Isolating the $\langle \bar{\psi} \psi \rangle$ Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 692 Td (stretchy="false")</mml:mo></mml:mrow></mml:math> https://doi.org/10.1016/j.nucphysb.2015.11.002	4.1	35
3	Hamiltonian Effective Field Theory Study of the $\langle \bar{\psi} \psi \rangle$ Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 737 Td (stretchy="false")</mml:mo></mml:mrow></mml:math> https://doi.org/10.1016/j.nucphysb.2017.09.011	4.1	53
4	Letters, 2016, 116, 082004. Unquenching effects in the quark and gluon propagator. Physical Review D, 2007, 76, .	4.7	45
6	Structure and flow of the nucleon eigenstates in lattice QCD. Physical Review D, 2013, 87, .	4.7	38
7	Variational approach to the calculation of $\langle \bar{\psi} \psi \rangle$ overflow="scroll"></mml:math></mml:mrow></mml:math> Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 217-223.	4.1	35
8	Magnetic properties of the nucleon in a uniform background field. Physical Review D, 2014, 89, .	4.7	35
9	Hamiltonian effective field theory study of the $\langle \bar{\psi} \psi \rangle$ Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 412 Td (stretchy="false")</mml:mo></mml:mrow></mml:math> https://doi.org/10.1016/j.nucphysb.2017.09.011	4.1	35
10	Evidence that centre vortices underpin dynamical chiral symmetry breaking in SU(3) gauge theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2015, 747, 373-377.	4.1	34
11	Accelerated overlap fermions. Physical Review D, 2002, 66, .	4.7	32
12	Low-lying odd-parity states of the nucleon in lattice QCD. Physical Review D, 2013, 87, .	4.7	30
13	Light meson form factors at near physical masses. Physical Review D, 2015, 91, .	4.7	30
14	Hybrid Monte Carlo algorithm with fat link fermion actions. Physical Review D, 2004, 70, .	4.7	28
15	Isolating excited states of the nucleon in lattice QCD. Physical Review D, 2009, 80, .	4.7	27
16	Search for low-lying lattice QCD eigenstates in the Roper regime. Physical Review D, 2017, 95, .	4.7	27
17	Lattice baryon spectroscopy with multiparticle interpolators. Physical Review D, 2015, 91, .	4.7	24
18	Wave function of the Roper from lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 164-169.	4.1	23

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19	Ordering of spin- excitations of the nucleon in lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 693, 351-357.	4.1	22
20	$S(U) = \prod_{\square} \text{Tr} [U_{\square}]$ symmetry breaking. Physical Review D, 2012, 86, .	4.7	20
21	Nucleon excited state wave functions from lattice QCD. Physical Review D, 2014, 89, .	4.7	19
22	Connection between center vortices and instantons through gauge-field smoothing. Physical Review D, 2015, 92, .	4.7	19
23	Visualization of center vortex structure. Physical Review D, 2020, 102, .	4.7	19
24	Positive-parity excited states of the nucleon in quenched lattice QCD. Physical Review D, 2010, 82, .	4.7	18
25	Isolating the Roper resonance in lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2009, 679, 418-422.	4.1	17
26	Centre vortex removal restores chiral symmetry. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 125002.	3.6	16
27	$S(U) = \prod_{\square} \text{Tr} [U_{\square}]$ Preconditioning maximal center gauge with stout link smearing in Physical Review D, 2010, 82, .	4.7	14
28	Transition of χ_1 in lattice QCD. Physical Review D, 2015, 92, .	4.7	14
29	$\chi_1 = \frac{1}{2} \text{Tr} [U_{\square}]$ Light-quark contributions to the magnetic form factor of the Physical Review D, 2010, 82, .	4.7	14
30	Pion magnetic polarisability using the background field method. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2020, 811, 135853.	4.1	14
31	Gluon propagator on a center-vortex background. Physical Review D, 2018, 98, .	4.7	13
32	Magnetic polarizability of the nucleon using a Laplacian mode projection. Physical Review D, 2020, 101, .	4.7	13
33	N^* Spectroscopy from Lattice QCD: The Roper Explained. , 2016, , .		13
34	Searching for low-lying multi-particle thresholds in lattice spectroscopy. Annals of Physics, 2014, 342, 270-282.	2.8	12
35	Fat link irrelevant clover overlap quark propagator. Physical Review D, 2005, 71, .	4.7	11
36	Low-lying eigenmodes of the Wilson-Dirac operator and correlations with topological objects. Nuclear Physics B, 2002, 628, 253-269.	2.5	10

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37	Neutron magnetic polarizability with Landau mode operators. Physical Review D, 2018, 98, .	4.7	10
38	Quark propagation in the instantons of lattice QCD. Physical Review D, 2013, 88, .	4.7	9
39	Parity-expanded variational analysis for nonzero momentum. Physical Review D, 2015, 92, .	4.7	9
40	Opposite-parity contaminations in lattice nucleon form factors. Physical Review D, 2019, 99, .	4.7	9
41	Elastic form factors of nucleon excitations in lattice QCD. Physical Review D, 2020, 102, .	4.7	9
42	Visualizations of coherent center domains in local Polyakov loops. Annals of Physics, 2014, 348, 341-361.	2.8	8
43	Pion in a uniform background magnetic field with clover fermions. Physical Review D, 2019, 100, .	4.7	7
44	Wave functions of the proton ground state in the presence of a uniform background magnetic field in lattice QCD. Physical Review D, 2011, 83, .	4.7	6
45	Polynomial filtered HMC—an algorithm for lattice QCD with dynamical quarks. Computer Physics Communications, 2012, 183, 1993-2000.	7.5	6
46	Applying polynomial filtering to mass preconditioned Hybrid Monte Carlo. Computer Physics Communications, 2017, 215, 113-127.	7.5	5
47	Impact of dynamical fermions on the center vortex gluon propagator. Physical Review D, 2022, 106, .	4.7	5
48	Accessing high momentum states in lattice QCD. Physical Review D, 2012, 86, .	4.7	4
49	Emergent Structure in QCD. EPJ Web of Conferences, 2020, 245, 06009.	0.3	4
50	Extracting Low-Lying Lambda Resonances Using Correlation Matrix Techniques. , 2011, , .		3
51	Instanton contributions to the low-lying hadron mass spectrum. Physical Review D, 2015, 92, .	4.7	3
52	Background field Landau mode operators for the nucleon. EPJ Web of Conferences, 2018, 175, 05018.	0.3	3
53	Role of chiral symmetry in the nucleon excitation spectrum. Physical Review D, 2020, 101, .	4.7	3
54	Correlation matrix methods for excited meson form factors in Full QCD. , 2012, , .		3

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55	Visualisations of Centre Vortices. EPJ Web of Conferences, 2020, 245, 06010.	0.3	3
56	Dynamical fat link fermions. Nuclear Physics, Section B, Proceedings Supplements, 2004, 128, 96-99.	0.4	2
57	Scaling analysis of fat-link irrelevant clover fermion actions. Physical Review D, 2008, 77, .	4.7	2
58	Structure of the Nucleon and its Excitations. EPJ Web of Conferences, 2018, 175, 06019.	0.3	2
59	Centre vortices are the seeds of dynamical chiral symmetry breaking. , 2017, , .		2
60	Nucleon Magnetic Properties from Lattice QCD And The Background Field Method. , 2017, , .		2
61	Electromagnetic Form Factors through Parity-Expanded Variational Analysis. , 2017, , .		2
62	Smoothing algorithms for projected center-vortex gauge fields. Physical Review D, 2022, 106, .	4.7	2
63	The $\hat{1}(1405)$ in Full QCD. , 2011, , .		1
64	Roper Resonance in 2+1 Flavor QCD. , 2011, , .		1
65	A Novel Multiple-Time Scale Integrator for the Hybrid Monte Carlo Algorithm. , 2011, , .		1
66	Single flavour filtering for RHMC in BQCD. EPJ Web of Conferences, 2018, 175, 09004.	0.3	1
67	Single flavour optimisations to Hybrid Monte Carlo. Computer Physics Communications, 2019, 238, 111-123.	7.5	1
68	Computing the magnetic field response of the proton. EPJ Web of Conferences, 2020, 245, 06033.	0.3	1
69	Centre Vortex Effects on the Overlap Quark Propagator. , 2015, , .		1
70	Improving Polynomial-filtered Hybrid Monte Carlo With Hasenbusch. , 2017, , .		1
71	Electromagnetic Structure of the $\Lambda(1405)$. , 2014, , .		1
72	Anomalous magnetic moment of the muon with dynamical QCD+QED. EPJ Web of Conferences, 2020, 245, 06035.	0.3	1

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73	Centre vortex structure of QCD-vacuum fields and confinement. SciPost Physics Proceedings, 2022, , .	0.4	1
74	Shape of the proton in a uniform magnetic field. , 2010, , .		0
75	Proton Wave Functions in a Uniform Magnetic Field. , 2011, , .		0
76	Magnetic Properties of the Proton and Neutron. , 2011, , .		0
77	Efficient operators for studying higher partial waves. EPJ Web of Conferences, 2018, 175, 05024.	0.3	0
78	CHEP 2019: Preface to the Proceedings. EPJ Web of Conferences, 2020, 245, 00001.	0.3	0
79	Polynomial Filtering for HMC in Lattice QCD. , 2005, , .		0
80	Light-Quark FLIC Fermion Simulations of the 1^+ Exotic Meson. , 2005, , .		0
81	Spin-3/2 Pentaquark Resonance Signature. , 2005, , .		0
82	Positive parity excited states of the nucleon. , 2010, , .		0
83	Shape of the proton in a uniform magnetic field. , 2011, , .		0
84	Impact of center vortex removal on chiral symmetry breaking in SU(3) gauge field theory. , 2011, , .		0
85	Magnetic Properties of the Nucleon. , 2012, , .		0
86	Nucleon Mass Spectrum in Full QCD. , 2012, , .		0
87	Impact of center vortex removal on chiral symmetry breaking in SU(3) gauge field theory. , 2012, , .		0
88	The 1405MeV Lambda Resonance in Full-QCD. , 2012, , .		0
89	Baryon Properties from the CSSM Lattice Collaboration. , 2012, , .		0
90	Multi-Particle Baryon Spectroscopy. , 2012, , .		0

#	ARTICLE	IF	CITATIONS
91	Magnetic properties of the neutron in a uniform background field. , 2012, , .		0
92	Instanton contributions to the low-lying hadronic mass spectrum. , 2012, , .		0
93	Electromagnetic Form Factors of the Lambda(1405) in (2+1)-flavour Lattice QCD. , 2012, , .		0
94	Odd-parity Nucleon Eigenstates in Full QCD. , 2012, , .		0
95	Light Meson Transition Form Factors on the Lattice. , 2012, , .		0
96	GPUs: An Oasis in the Supercomputing Desert. , 2012, , .		0
97	The Influence of Instantons on the Quark Propagator. , 2012, , .		0
98	Exploring the Roper resonance in Lattice QCD. , 2014, , .		0
99	Probing the nucleon and its excitations in full QCD. , 2014, , .		0
100	Electromagnetic matrix elements for Negative Parity Nucleons. , 2015, , .		0
101	On the Structure of the Lambda 1405. , 2015, , .		0
102	Nucleon spectroscopy using multi-particle operators. , 2015, , .		0
103	Evidence that the Lambda(1405) is a molecular antikaon-nucleon bound state. , 2016, , .		0
104	Improved determination of hadron matrix elements using the variational method. , 2016, , .		0
105	The Light-quark Magnetic Moment Of The Lambda(1405) Antikaon-nucleon Molecule. , 2017, , .		0
106	Study Of Low-Lying Baryons With Hamiltonian Effective Field Theory. , 2017, , .		0
107	Spectroscopy With Multi-hadron Interpolators In Lattice QCD. , 2017, , .		0
108	Centre Vortices As The Origin Of Quark Confinement. , 2017, , .		0

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109	Electromagnetic Form Factors Of Nucleon Eexcitations from Lattice QCD. , 2017, , .		0
110	Accessing high momentum nucleons in lattice QCD. , 2017, , .		0
111	Publicizing Lattice Field Theory through Visualization. , 2019, , .		0
112	Visualizations of Centre Vortex Structure in Lattice Simulations. , 2019, , .		0
113	Anomalous magnetic moment of the muon with dynamical QCD+QED. , 2019, , .		0
114	The computational challenge of lattice chiral symmetry - Is it worth the expense?. EPJ Web of Conferences, 2020, 245, 06034.	0.3	0
115	Structure and transitions of nucleon excitations via parity-expanded variational analysis. , 2020, , .		0
116	Towards high partial waves in lattice QCD with an extended two-hadron operator. Physical Review D, 2022, 105, .	4.7	0