Waseem Kamleh

List of Publications by Year
in descending order

116 papers	1,166 citations	361413 20 h-index	414414 32 g-index
116 all docs	116 docs citations	116 times ranked	574 citing authors

#	Article	IF	Citations
1	Towards high partial waves in lattice QCD with an extended two-hadron operator. Physical Review D, 2022, 105, .	4.7	0
2	Centre vortex structure of QCD-vacuum fields and confinement. SciPost Physics Proceedings, 2022, , .	0.4	1
3	Impact of dynamical fermions on the center vortex gluon propagator. Physical Review D, 2022, 106, .	4.7	5
4	Smoothing algorithms for projected center-vortex gauge fields. Physical Review D, 2022, 106, .	4.7	2
5	CHEP 2019: Preface to the Proceedings. EPJ Web of Conferences, 2020, 245, 00001.	0.3	0
6	Magnetic polarizability of the nucleon using a Laplacian mode projection. Physical Review D, 2020, 101, .	4.7	13
7	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
8	Elastic form factors of nucleon excitations in lattice QCD. Physical Review D, 2020, 102, .	4.7	9
9	Visualization of center vortex structure. Physical Review D, 2020, 102, .	4.7	19
10	Role of chiral symmetry in the nucleon excitation spectrum. Physical Review D, 2020, 101, .	4.7	3
11	Computing the magnetic field response of the proton. EPJ Web of Conferences, 2020, 245, 06033.	0.3	1
12	Emergent Structure in QCD. EPJ Web of Conferences, 2020, 245, 06009.	0.3	4
13	Visualisations of Centre Vortices. EPJ Web of Conferences, 2020, 245, 06010.	0.3	3
14	Anomalous magnetic moment of the muon with dynamical QCD+QED. EPJ Web of Conferences, 2020, 245, 06035.	0.3	1
15	The computational challenge of lattice chiral symmetry - Is it worth the expense?. EPJ Web of Conferences, 2020, 245, 06034.	0.3	0
16	Structure and transitions of nucleon excitations via parity-expanded variational analysis. , 2020, , .		0
17	Opposite-parity contaminations in lattice nucleon form factors. Physical Review D, 2019, 99, .	4.7	9
18	Single flavour optimisations to Hybrid Monte Carlo. Computer Physics Communications, 2019, 238, 111-123.	7.5	1

#	Article	IF	Citations
19	Pion in a uniform background magnetic field with clover fermions. Physical Review D, 2019, 100, .	4.7	7
20	Publicizing Lattice Field Theory through Visualization. , 2019, , .		0
21	Visualizations of Centre Vortex Structure in Lattice Simulations. , 2019, , .		0
22	Anomalous magnetic moment of the muon with dynamical QCD+QED. , 2019, , .		0
23	Efficient operators for studying higher partial waves. EPJ Web of Conferences, 2018, 175, 05024.	0.3	0
24	Background field Landau mode operators for the nucleon. EPJ Web of Conferences, 2018, 175, 05018.	0.3	3
25	Single flavour filtering for RHMC in BQCD. EPJ Web of Conferences, 2018, 175, 09004.	0.3	1
26	Neutron magnetic polarizability with Landau mode operators. Physical Review D, 2018, 98, .	4.7	10
27	Gluon propagator on a center-vortex background. Physical Review D, 2018, 98, .	4.7	13
28	Structure of the Nucleon and its Excitations. EPJ Web of Conferences, 2018, 175, 06019.	0.3	2
29	Applying polynomial filtering to mass preconditioned Hybrid Monte Carlo. Computer Physics Communications, 2017, 215, 113-127.	7.5	5
30	Hamiltonian effective field theory study of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:msup><mml:mrow><mml:mi>N</mml:mi></mml:mrow><mml:mrow><mml:mo>*</mml:mo></mml:mo stretchy="false">(</mml:mo><mml:mn>1440</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 292 Td (stretchy="false")</m 2017, 95, .	4.7	25
31	Light-quark contributions to the magnetic form factor of the <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi mathvariant="normal">Î›</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>1405</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 247 Td (stretchy="	4.7	14
32	Search for low-lying lattice QCD eigenstates in the Roper regime. Physical Review D, 2017, 95, .	4.7	27
33	Centre vortex removal restores chiral symmetry. Journal of Physics G: Nuclear and Particle Physics, 2017, 44, 125002.	3.6	16
34	Centre vortices are the seeds of dynamical chiral symmetry breaking. , 2017, , .		2
35	Nucleon Magnetic Properties from Lattice QCD And The Background Field Method. , 2017, , .		2
36	Improving Polynomial-filtered Hybrid Monte Carlo With Hasenbusch. , 2017, , .		1

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37	Electromagnetic Form Factors through Parity-Expanded Variational Analysis. , 2017, , .		2
38	The Light-quark Magnetic Moment Of The Lambda(1405) Antikaon-nucleon Molecule. , 2017, , .		0
39	Study Of Low-Lying Baryons With Hamiltonian Effective Field Theory. , 2017, , .		0
40	Spectroscopy With Multi-hadron Interpolators In Lattice QCD. , 2017, , .		0
41	Centre Vortices As The Origin Of Quark Confinement. , 2017, , .		0
42	Electromagnetic Form Factors Of Nucleon Eexcitations from Lattice QCD. , 2017, , .		0
43	Accessing high momentum nucleons in lattice QCD. , 2017, , .		0
44	Hamiltonian Effective Field Theory Study of the‹mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"›‹mml:mrow›‹mml:msup›‹mml:mrow›‹mml:mi›N‹/mml:mi›‹/mml:mrow›‹mml:mrow›‹mml:mo›*‹/mml:mo›‹/ stretchy="false"›(‹/mml:mo›‹mml:mn›1535‹/mml:mn›‹mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 452 Td (stretchy="false"›)‹/m ... Letters, 2016, 116, 082004.	7.8	50
45	‹i›N‹/i›‹sup›*‹/sup› Spectroscopy from Lattice QCD: The Roper Explained. , 2016, , .		13
46	Evidence that the Lambda(1405) is a molecular antikaon-nucleon bound state. , 2016, , .		0
47	Improved determination of hadron matrix elements using the variational method. , 2016, , .		0
48	Light meson form factors at near physical masses. Physical Review D, 2015, 91, .	4.7	30
49	Transition of $\check{\mathrm{I}}\hat{a}\dagger^{\,}\check{\mathrm{I}}\in\hat{\mathrm{I}}^3$ in lattice QCD. Physical Review D, 2015, 92, .	4.7	14
50	Connection between center vortices and instantons through gauge-field smoothing. Physical Review D, 2015, 92, .	4.7	19
51	Instanton contributions to the low-lying hadron mass spectrum. Physical Review D, 2015, 92, .	4.7	3
52	Parity-expanded variational analysis for nonzero momentum. Physical Review D, 2015, 92, .	4.7	9
53	Lattice baryon spectroscopy with multiparticle interpolators. Physical Review D, 2015, 91, .	4.7	24
54	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

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55	Lattice QCD Evidence that the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML display="inline"><mml:mi mathvariant="normal">Î</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>1405</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 737 Td (stretchy=" Letters, 2015, 114, 133002.	7.3	141
56	Centre Vortex Effects on the Overlap Quark Propagator. , 2015, , .		1
57	Electromagnetic matrix elements for Negative Parity Nucleons. , 2015, , .		0
58	On the Structure of the Lambda 1405. , 2015, , .		0
59	Nucleon spectroscopy using multi-particle operators. , 2015, , .		0
60	Magnetic properties of the nucleon in a uniform background field. Physical Review D, 2014, 89, .	4.7	35
61	Nucleon excited state wave functions from lattice QCD. Physical Review D, 2014, 89, .	4.7	20
62	Searching for low-lying multi-particle thresholds in lattice spectroscopy. Annals of Physics, 2014, 342, 270-282.	2.8	12
63	Visualizations of coherent center domains in local Polyakov loops. Annals of Physics, 2014, 348, 341-361.	2.8	8
64	Exploring the Roper resonance in Lattice QCD. , 2014, , .		0
65	Electromagnetic Structure of the $Lambda(1405)$. , 2014, , .		1
66	Probing the nucleon and its excitations in full QCD. , 2014, , .		0
67	Structure and flow of the nucleon eigenstates in lattice QCD. Physical Review D, 2013, 87, .	4.7	38
68	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
69	Variational approach to the calculation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" altimg="si1.gif" overflow="scroll"><mml:msub><mml:mrow><mml:mi>g</mml:mi></mml:mrow><mml:mrow><mml:mi>A</mml:mi></mml:mrow></mml:mrow><mml: Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 723, 217-223.	4.1	35
70	Quark propagation in the instantons of lattice QCD. Physical Review D, 2013, 88, .	4.7	9
71	Low-lying odd-parity states of the nucleon in lattice QCD. Physical Review D, 2013, 87, .	4.7	30
72	Accessing high momentum states in lattice QCD. Physical Review D, 2012, 86, .	4.7	4

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73	Isolating the<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>Î</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>1405</mml:mn><mml:mo) Tj ETQq1 1 0.784314 rgBT /Overlock 10 Tf 50 732 Td (stretchy="	7.8	66
74	<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>S</mml:mi><mml:mi>U</mml:mi><mml:mo stretchy="false">(</mml:mo><mml:mn>3</mml:mn><mml:mo) Tj ETQq0 0 0 rgBT /Overlock 10 Tf 50 697 Td (stretchy="false")</mml:m symmetry breaking. Physical Review D, 2012, 86, .	4.7	20
75	Polynomial filtered HMCâ€"an algorithm for lattice QCD with dynamical quarks. Computer Physics Communications, 2012, 183, 1993-2000.	7.5	6
76	Roper resonance in <mml:math altimg="si1.gif" overflow="scroll" xmlns:xocs="http://www.elsevier.com/xml/xocs/dtd" xmlns:xs="http://www.w3.org/2001/XMLSchema" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xmlns="http://www.elsevier.com/xml/ja/dtd" xmlns:ja="http://www.elsevier.com/xml/ja/dtd" xmlns:mml="http://www.w3.org/1998/Math/MathML" xmlns:tb="http://www.elsevier.com/xml/common/table/dtd" xmlns:sb="http://www.elsevier.com/xml/common/struct-bib/dtd" xmlns:ce="http://www.elsevier.com/x	4.1	53
77	Magnetic Properties of the Nucleon. , 2012, , .		0
78	Nucleon Mass Spectrum in Full QCD. , 2012, , .		0
79	Impact of center vortex removal on chiral symmetry breaking in SU(3) gauge field theory. , 2012, , .		0
80	The 1405MeV Lambda Resonance in Full-QCD. , 2012, , .		0
81	Baryon Properties from the CSSM Lattice Collaboration. , 2012, , .		0
82	Multi-Particle Baryon Spectroscopy. , 2012, , .		0
83	Magnetic properties of the neutron in a uniform background field. , 2012, , .		0
84	Instanton contributions to the low-lying hadronic mass spectrum. , 2012, , .		0
85	Electromagnetic Form Factors of the Lambda(1405) in (2+1)-flavour Lattice QCD. , 2012, , .		0
86	Correlation matrix methods for excited meson form factors in Full QCD. , 2012, , .		3
87	Odd-parity Nucleon Eigenstates in Full QCD. , 2012, , .		0
88	Light Meson Transition Form Factors on the Lattice. , 2012, , .		0
89	GPUs: An Oasis in the Supercomputing Desert. , 2012, , .		0
90	The Influence of Instantons on the Quark Propagator. , 2012, , .		0

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91	The Î›(1405) in Full QCD. , 2011, , .		1
92	Proton Wave Functions in a Uniform Magnetic Field. , 2011, , .		0
93	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
94	Roper Resonance in 2+1 Flavor QCD. , 2011, , .		1
95	A Novel Multiple-Time Scale Integrator for the Hybrid Monte Carlo Algorithm. , 2011, , .		1
96	Extracting Low-Lying Lambda Resonances Using Correlation Matrix Techniques. , 2011, , .		3
97	Magnetic Properties of the Proton and Neutron. , 2011, , .		0
98	Shape of the proton in a uniform magnetic field. , 2011, , .		0
99	Impact of center vortex removal on chiral symmetry breaking in SU(3) gauge field theory. , 2011, , .		0
100	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
101	Shape of the proton in a uniform magnetic field. , 2010, , .		0
102	Preconditioning maximal center gauge with stout link smearing in $SU(3)$. Physical Review D, 2010, 82, .	4.7	14
103	Positive-parity excited states of the nucleon in quenched lattice QCD. Physical Review D, 2010, 82, .	4.7	18
104	Positive parity excited states of the nucleon. , 2010, , .		0
105	Isolating excited states of the nucleon in lattice QCD. Physical Review D, 2009, 80, .	4.7	27
106	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
107	Scaling analysis of fat-link irrelevant clover fermion actions. Physical Review D, 2008, 77, .	4.7	2
108	Unquenching effects in the quark and gluon propagator. Physical Review D, 2007, 76, .	4.7	45

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109	Fat link irrelevant clover overlap quark propagator. Physical Review D, 2005, 71, .	4.7	11
110	Polynomial Filtering for HMC in Lattice QCD. , 2005, , .		0
111	Light-Quark FLIC Fermion Simulations of the 1-+ Exotic Meson. , 2005, , .		0
112	Spin-3/2 Pentaquark Resonance Signature. , 2005, , .		0
113	Hybrid Monte Carlo algorithm with fat link fermion actions. Physical Review D, 2004, 70, .	4.7	28
114	Dynamical fat link fermions. Nuclear Physics, Section B, Proceedings Supplements, 2004, 128, 96-99.	0.4	2
115	Accelerated overlap fermions. Physical Review D, 2002, 66, .	4.7	32
116	Low-lying eigenmodes of the Wilson–Dirac operator and correlations with topological objects. Nuclear Physics B, 2002, 628, 253-269.	2.5	10