

Roger Horsley

List of Publications by Year in descending order

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Version: 2024-02-01

63
papers

3,485
citations

147566

31
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g-index

64
all docs

64
docs citations

64
times ranked

4174
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized parton distributions from the off-forward Compton amplitude in lattice QCD. Physical Review D, 2022, 105, .	1.6	10
2	Charged multihadron systems in lattice $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mrow}> \langle \text{mml:mi}> \text{QCD} \langle \text{mml:mi}> \langle \text{mml:mo}> + \langle \text{mml:mo}> \langle \text{mml:mi}> \text{QED} \langle \text{mml:mi}> \langle \text{mml:mrow}> \langle \text{mml:math}> .$ Physical Review D, 2021, 103, .	1.6	15
3	Electromagnetic contribution to $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:msup}> \langle \text{mml:mi}> \hat{\Gamma} \langle \text{mml:mi}> \langle \text{mml:mn}> 0 \langle \text{mml:mn}> \langle \text{mml:msup}> \langle \text{mml:math}> ,$ mesons $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mi}> \hat{\Gamma} \langle \text{mml:mi}> \langle \text{mml:math}> \text{ and } \langle \text{mml:math}$	1.6	3
4	Electromagnetic contribution to $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mrow}> \langle \text{mml:mi mathvariant="normal"> } \hat{\Gamma} \langle \text{mml:mi}> \langle \text{mml:mrow}> \langle \text{mml:math}> +$ mesons $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"> \langle \text{mml:mi mathvariant="normal"> } \hat{\Gamma} \langle \text{mml:mi}> \langle \text{mml:math}> \text{ mixing using lattice } \langle \text{mml:math}$	1.6	10
5	Lattice QCD evaluation of the Compton amplitude employing the Feynman-Hellmann theorem. Physical Review D, 2020, 102, .	1.6	21
6	FLAG Review 2019. European Physical Journal C, 2020, 80, 1.	1.4	486
7	Isospin splittings in the decuplet baryon spectrum from dynamical QCD + QED. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 115004.	1.4	15
8	Patterns of flavor symmetry breaking in hadron matrix elements involving u , d , and s quarks. Physical Review D, 2019, 100, .	1.6	5
9	Charmed states and flavour symmetry breaking. EPJ Web of Conferences, 2018, 175, 06017.	0.1	1
10	Flavour breaking effects in the pseudoscalar meson decay constants. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 767, 366-373.	1.5	13
11	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2017, 77, 112.	1.4	439
12	Nucleon Structure Functions from Operator Product Expansion on the Lattice. Physical Review Letters, 2017, 118, 242001.	2.9	126
13	Electromagnetic form factors at large momenta from lattice QCD. Physical Review D, 2017, 96, .	1.6	37
14	Isospin splittings of meson and baryon masses from three-flavor lattice QCD + QED. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 10LT02.	1.4	47
15	Nucleon matrix elements using the variational method in lattice QCD. Physical Review D, 2016, 94, .	1.6	17
16	QED effects in the pseudoscalar meson sector. Journal of High Energy Physics, 2016, 2016, 1-24.	1.6	17
17	Charge symmetry violation in the electromagnetic form factors of the nucleon. Physical Review D, 2015, 91, .	1.6	7
18	SU(3) breaking in hyperon transition vector form factors. Physical Review D, 2015, 92, .	1.6	8

#	ARTICLE	IF	CITATIONS
19	Disconnected contributions to the spin of the nucleon. Physical Review D, 2015, 92, .	1.6	36
20	Electric Dipole Moment of the Neutron from 2+1 Flavor Lattice QCD. Physical Review Letters, 2015, 115, 062001.	2.9	55
21	Lattice determination of Sigma-Lambda mixing. Physical Review D, 2015, 91, .	1.6	16
22	Reply to "Comment on 'Lattice determination of Σ - Λ mixing'". Physical Review D, 2015, 92, .	1.6	6
23	Renormalization of local quark-bilinear operators for $N_f=3$ flavors of stout link nonperturbative clover fermions. Physical Review D, 2015, 91, .	1.6	31
24	Determination of the Strange Nucleon Form Factors. Physical Review Letters, 2015, 114, 091802.	2.9	17
25	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2014, 74, 2890.	1.4	375
26	Magnetic form factors of the octet baryons from lattice QCD and chiral extrapolation. Physical Review D, 2014, 89, .	1.6	46
27	Feynman-Hellmann approach to the spin structure of hadrons. Physical Review D, 2014, 90, .	1.6	32
28	Electric form factors of the octet baryons from lattice QCD and chiral extrapolation. Physical Review D, 2014, 90, .	1.6	35
29	Perturbatively improving regularization-invariant momentum scheme renormalization constants. Physical Review D, 2013, 87, .	1.6	19
30	Isospin breaking in octet baryon mass splittings. Physical Review D, 2012, 86, .	1.6	26
31	Scattering phases for meson and baryon resonances on general moving-frame lattices. Physical Review D, 2012, 86, .	1.6	128
32	Strange and light quark contributions to the nucleon mass from lattice QCD. Physical Review D, 2012, 85, .	1.6	58
33	Hyperon sigma terms for $2+1$ quark flavors. Physical Review D, 2012, 85, .	1.6	64
34	Wilson loops to 20th order numerical stochastic perturbation theory. Physical Review D, 2012, 86, .	1.6	19
35	Flavor blindness and patterns of flavor symmetry breaking in lattice simulations of up, down, and strange quarks. Physical Review D, 2011, 84, .	1.6	108
36	Dirac and Pauli form factors from lattice QCD. Physical Review D, 2011, 84, .	1.6	42

#	ARTICLE	IF	CITATIONS
37	Hyperon Structure from $N_f=2+1$ Lattice QCD. , 2011, , .		1
38	Charge symmetry breaking in parton distribution functions from lattice QCD. Physical Review D, 2011, 83, .	1.6	16
39	Tuning the strange quark mass in lattice simulations. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2010, 690, 436-441.	1.5	65
40	Perturbative and nonperturbative renormalization in lattice QCD. Physical Review D, 2010, 82, .	1.6	46
41	Probing the finite temperature phase transition with $N_f=2$ nonperturbatively improved Wilson fermions. Physical Review D, 2010, 82, .	1.6	29
42	Nonperturbative improvement of stout-smearred three-flavor clover fermions. Physical Review D, 2009, 79, .	1.6	33
43	Nucleon distribution amplitudes and proton decay matrix elements on the lattice. Physical Review D, 2009, 79, .	1.6	46
44	Hadronic structure from the lattice. European Physical Journal: Special Topics, 2008, 162, 63-71.	1.2	6
45	Perturbative determination of $\langle \bar{c} S W \rangle$ plaquette and Symanzik gauge action and stout link clover fermions. Physical Review D, 2008, 78, .	1.6	16
46	Hadron spectrum, quark masses, and decay constants from light overlap fermions on large lattices. Physical Review D, 2007, 75, .	1.6	12
47	Probing nucleon structure on the lattice. European Physical Journal A, 2007, 32, 445-450.	1.0	7
48	The pion form factor from lattice QCD with two dynamical flavours. European Physical Journal C, 2007, 51, 335-345.	1.4	78
49	Determination of the Lambda parameter from full lattice QCD. Physical Review D, 2006, 73, .	1.6	67
50	Axial coupling constant of the nucleon for two flavors of dynamical quarks in finite and infinite volume. Physical Review D, 2006, 74, .	1.6	74
51	Renormalisation of composite operators in lattice perturbation theory with clover fermions: non-forward matrix elements. European Physical Journal C, 2006, 48, 523-530.	1.4	4
52	Moments of pseudoscalar meson distribution amplitudes from the lattice. Physical Review D, 2006, 74, .	1.6	124
53	Estimating the unquenched strange quark mass from the lattice axial Ward identity. Physical Review D, 2006, 73, .	1.6	24
54	SOFFER BOUND AND TRANSVERSE SPIN DENSITIES FROM LATTICE QCD. , 2006, , .		0

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55	Generalized Parton Distributions in Full Lattice QCD. Few-Body Systems, 2005, 36, 111-118.	0.7	10
56	A lattice determination of moments of unpolarized nucleon structure functions using improved Wilson fermions. Physical Review D, 2005, 71, .	1.6	55
57	Nucleon electromagnetic form factors on the lattice and in chiral effective field theory. Physical Review D, 2005, 71, .	1.6	97
58	Investigation of the second moment of the nucleon's g_1 and g_2 structure functions in two-flavor lattice QCD. Physical Review D, 2005, 72, .	1.6	35
59	Non-perturbative renormalisation and improvement of the local vector current for quenched and unquenched Wilson fermions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2004, 580, 197-208.	1.5	31
60	LATTICE CALCULATION OF BARYON MASSES USING THE CLOVER FERMION ACTION. , 2003, , .		0
61	Nucleon form factors and $O(a)$ improvement. Nuclear Physics, Section B, Proceedings Supplements, 1999, 73, 294-296.	0.5	16
62	g_1 and g_2 structure functions from lattice QCD. Physical Review D, 1997, 56, 2743-2754.	1.6	141
63	Scaling laws, renormalization group flow and the continuum limit in non-compact lattice QED. Nuclear Physics B, 1992, 371, 713-772.	0.9	62