

Ræd Young

List of Publications by Year in descending order

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111
papers

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citations

126907

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113
all docs

113
docs citations

113
times ranked

1970
citing authors

#	ARTICLE	IF	CITATIONS
1	Generalized parton distributions from the off-forward Compton amplitude in lattice QCD. Physical Review D, 2022, 105, .	4.7	10
2	Charged multihadron systems in lattice $\text{QCD} + \text{QED}$. Physical Review D, 2021, 103, .	4.7	15
3	Electromagnetic contribution to $\langle \bar{l}l \rangle$ and mesons charge symmetry violation in the determination of strangeness form factors. Physical Review C, 2020, 102, .	4.7	3
4	Electromagnetic contribution to $\langle \bar{l}l \rangle$ mixing using lattice QCD evaluation of the Compton amplitude employing the Feynman-Hellmann theorem. Physical Review D, 2020, 102, .	2.9	0
5	Accelerating Lattice Quantum Field Theory Calculations via Interpolator Optimization Using Noisy Intermediate-Scale Quantum Computing. Physical Review Letters, 2020, 124, 080501.	4.7	10
6	Lattice QCD evaluation of the Compton amplitude employing the Feynman-Hellmann theorem. Physical Review D, 2020, 102, .	4.7	21
7	Isospin splittings in the decuplet baryon spectrum from dynamical QCD + QED. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 115004.	7.8	20
8	Isospin splittings in the decuplet baryon spectrum from dynamical QCD + QED. Journal of Physics G: Nuclear and Particle Physics, 2019, 46, 115004.	3.6	15
9	Patterns of flavor symmetry breaking in hadron matrix elements involving u , d , and s quarks. Physical Review D, 2019, 100, .	4.7	5
10	Scattering processes and resonances from lattice QCD. Reviews of Modern Physics, 2018, 90, .	45.6	192
11	Accessing high-momentum nucleons with dilute stochastic sources. Journal of Physics G: Nuclear and Particle Physics, 2018, 45, 125102.	3.6	3
12	Precision measurement of the weak charge of the proton. Nature, 2018, 557, 207-211.	27.8	124
13	Strangeness in the proton. Nature, 2017, 544, 419-420.	27.8	2
14	Nucleon Structure Functions from Operator Product Expansion on the Lattice. Physical Review Letters, 2017, 118, 242001.	7.8	126
15	Electromagnetic form factors at large momenta from lattice QCD. Physical Review D, 2017, 96, .	4.7	37
16	Qweak: First Direct Measurement of the Proton's Weak Charge. EPJ Web of Conferences, 2017, 137, 08005.	0.3	1
17	Isospin splittings of meson and baryon masses from three-flavor lattice QCD + QED. Journal of Physics G: Nuclear and Particle Physics, 2016, 43, 10LT02.	3.6	47
18	Finite-Volume Hamiltonian Method for $\pi\pi$ Scattering in Lattice QCD. , 2016, , .		2

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19	Electromagnetic contribution to charge symmetry violation in parton distributions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 595-599.	4.1	3
20	Quark-hadron duality constraints on $\hat{\Gamma}^Z$ box corrections to parity-violating elastic scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2016, 753, 221-226.	4.1	17
21	Nucleon matrix elements using the variational method in lattice QCD. Physical Review D, 2016, 94, .	4.7	17
22	The tracking analysis in the Q-weak experiment. Hyperfine Interactions, 2016, 237, 1.	0.5	1
23	QED effects in the pseudoscalar meson sector. Journal of High Energy Physics, 2016, 2016, 1-24.	4.7	17
24	Charge symmetry violation in the electromagnetic form factors of the nucleon. Physical Review D, 2015, 91, .	4.7	7
25	SU(3) breaking in hyperon transition vector form factors. Physical Review D, 2015, 92, .	4.7	8
26	Disconnected contributions to the spin of the nucleon. Physical Review D, 2015, 92, .	4.7	36
27	Electromagnetic contribution to the proton-neutron mass splitting. Physical Review C, 2015, 91, .	2.9	16
28	Lattice QCD Evidence that the $\langle \bar{\psi} \psi \rangle$ is not a simple function of the quark mass. Physical Review Letters, 2015, 114, 132002.	7.8	17
29	Determination of the Strange Nucleon Form Factors. Physical Review Letters, 2015, 114, 091802.	7.8	17
30	Progress in resolving charge symmetry violation in nucleon structure. International Journal of Modern Physics E, 2014, 23, 1461010.	1.0	0
31	Dispersive estimate of the electromagnetic charge symmetry violation in the octet baryon masses. Physical Review C, 2014, 90, .	2.9	18
32	Finite-volume Hamiltonian method for coupled-channels interactions in lattice QCD. Physical Review C, 2014, 90, .	2.9	40
33	Finite-volume and partial quenching effects in the magnetic polarizability of the neutron. Physical Review D, 2014, 89, .	4.7	27
34	Magnetic form factors of the octet baryons from lattice QCD and chiral extrapolation. Physical Review D, 2014, 89, .	4.7	46
35	Feynman-Hellmann approach to the spin structure of hadrons. Physical Review D, 2014, 90, .	4.7	32
36	Electric form factors of the octet baryons from lattice QCD and chiral extrapolation. Physical Review D, 2014, 90, .	4.7	35

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37	Momentum transfer dependence of the proton's electric and magnetic polarizabilities. Physical Review D, 2014, 89, .	4.7	3
38	Hadronic $\hat{\Gamma}^3$ box corrections in MÃ¶ller scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 731, 287-292.	4.1	6
39	Early Results from the Qweak Experiment. EPJ Web of Conferences, 2014, 66, 05002.	0.3	1
40	Progress in resolving charge symmetry violation in nucleon structure. , 2014, , .		0
41	Finite-volume matrix Hamiltonian model for a $\hat{\Gamma}^3$ system. Physical Review D, 2013, 87, .	4.7	46
42	First Determination of the Weak Charge of the Proton. Physical Review Letters, 2013, 111, 141803.	7.8	102
43	Strange Quarks and Lattice QCD. Few-Body Systems, 2013, 54, 123-128.	1.5	7
44	Finite-volume corrections to charge radii. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 101-105.	4.1	9
45	Charge symmetry breaking from a chiral extrapolation of moments of quark distribution functions. Physical Review D, 2013, 87, .	4.7	10
46	Octet Spin Fractions and the Proton Spin Problem. Physical Review Letters, 2013, 110, 202001.	7.8	14
47	Strong contribution to octet baryon mass splittings. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 718, 1148-1153.	4.1	16
48	The $\{Q^p\}_m$ Weak experiment. Hyperfine Interactions, 2013, 214, 21-30.	0.5	1
49	Chiral extrapolations for nucleon electric charge radii. Physical Review D, 2013, 88, .	4.7	21
50	SU(3) chiral perturbation theory expansion of moments of quark distributions. Physical Review D, 2013, 87, .	4.7	5
51	Sigma terms from an SU(3) chiral extrapolation. Physical Review D, 2013, 87, .	4.7	51
52	Constrained $\hat{\Gamma}^3$ interference corrections to parity-violating electron scattering. Physical Review D, 2013, 88, .	4.7	36
53	Neutralino-hadron scattering in the next-to-minimal supersymmetric standard model. Physical Review D, 2012, 86, .	4.7	2
54	Chiral extrapolation of nucleon magnetic moments at next-to-leading-order. Physical Review D, 2012, 86, .	4.7	16

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55	Chiral extrapolations for nucleon magnetic moments. Physical Review D, 2012, 85, .	4.7	22
56	Charge symmetry breaking in spin-dependent parton distributions and the Bjorken sum rule. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2012, 714, 97-102.	4.1	10
57	Chiral extrapolation beyond the power-counting regime. Physical Review D, 2011, 84, .	4.7	9
58	Mass of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:mi} \rangle \text{H} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{Dibaryon}$. Physical Review Letters, 2011, 107, 092004.	7.8	65
59	Finite Volume Corrections to the Nucleon Axial Charge. , 2011, , .		0
60	Searches for Physics Beyond the Standard Model. Journal of Physics: Conference Series, 2011, 299, 012012.	0.4	3
61	Axial Form Factor of the Nucleon in a Finite Spherical Cavity. , 2011, , .		0
62	Charge symmetry breaking in parton distribution functions from lattice QCD. Physical Review D, 2011, 83, .	4.7	16
63	Nucleon Structure in the Search for New Physics. , 2011, , .		0
64	Chiral Effective Field Theory Beyond the Power-Counting Regime. , 2011, , .		1
65	Recent results on nucleon sigma terms in lattice QCD. Nuclear Physics A, 2010, 844, 266c-271c.	1.5	35
66	An analysis of the nucleon spectrum from lattice partially-quenched QCD. Nuclear Physics A, 2010, 840, 97-119.	1.5	14
67	Chiral behavior of baryon magnetic moments. , 2010, , .		0
68	Unravelling strange quarks in nucleon structure. , 2010, , .		2
69	Power counting regime of chiral effective field theory and beyond. Physical Review D, 2010, 82, .	4.7	17
70	Octet baryon masses and sigma terms from an SU(3) chiral extrapolation. Physical Review D, 2010, 81, .	4.7	143
71	Dark Matter, Constrained Minimal Supersymmetric Standard Model, and Lattice QCD. Physical Review Letters, 2009, 103, 201802.	7.8	165
72	Strange magnetic form factor of the proton at $Q^2=0.23 \hat{a} \text{€}, \text{GeV}^2$. Physical Review C, 2009, 79, .	2.9	47

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73	Aspects of SU(3) baryon extrapolation. , 2009, , .		0
74	Chiral extrapolation of octet-baryon charge radii. Physical Review D, 2009, 79, .	4.7	47
75	Testing the Standard Model by Precision Measurement of the Weak Charges of Quarks. Physical Review Letters, 2007, 99, 122003.	7.8	83
76	Chiral extrapolation of nucleon magnetic form factors. Physical Review D, 2007, 75, .	4.7	50
77	Progress in the calculation and experimental determination of the strangeness contributions to nucleon form factors. Nuclear Physics A, 2007, 790, 173c-181c.	1.5	1
78	Strangeness contributions to nucleon form factors. European Physical Journal A, 2007, 32, 439-443.	2.5	0
79	Recent Developments Concerning the Role of Strangeness in the Nucleon. Nuclear Physics A, 2007, 782, 1-8.	1.5	2
80	Baryon Spectroscopy and the Constituent Quark Model. , 2007, , .		0
81	Lattice QCD Studies of Pentaquarks and Exotics. Nuclear Physics, Section B, Proceedings Supplements, 2006, 153, 348-353.	0.4	2
82	Unified chiral analysis of the vector meson spectrum from lattice QCD. Journal of Physics G: Nuclear and Particle Physics, 2006, 32, 971-991.	3.6	22
83	Strange Electric Form Factor of the Proton. Physical Review Letters, 2006, 97, 022001.	7.8	89
84	Extracting Nucleon Strange and Anapole Form Factors from World Data. Physical Review Letters, 2006, 97, 102002.	7.8	105
85	Finite volume dependence of hadron properties and lattice QCD. Journal of Physics: Conference Series, 2005, 9, 321-330.	0.4	5
86	Extrapolation of lattice QCD results beyond the power-counting regime. Nuclear Physics A, 2005, 755, 59-70.	1.5	27
87	Finite-range regularisation and chiral extrapolation. Nuclear Physics, Section B, Proceedings Supplements, 2005, 141, 233-237.	0.4	6
88	Systematic uncertainties in the precise determination of the strangeness magnetic moment of the nucleon. Nuclear Physics, Section B, Proceedings Supplements, 2005, 141, 287-294.	0.4	0
89	Systematic uncertainties in the precise determination of the strangeness magnetic moment of the nucleon. European Physical Journal A, 2005, 24, 79-84.	2.5	22
90	Chiral and continuum extrapolation of partially-quenched lattice results. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2005, 628, 125-130.	4.1	48

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91	Precise Determination of the Strangeness Magnetic Moment of the Nucleon. Physical Review Letters, 2005, 94, 212001.	7.8	133
92	Search for the pentaquark resonance signature in lattice QCD. Physical Review D, 2005, 72, .	4.7	23
93	Spin-3/2 pentaquark resonance signature in lattice QCD. Physical Review D, 2005, 72, .	4.7	18
94	Leading quenching effects in the proton magnetic moment. Physical Review D, 2005, 71, .	4.7	54
95	Limits on variations of the quark masses, QCD scale, and fine structure constant. Physical Review D, 2004, 69, .	4.7	123
96	Physical Nucleon Properties from Lattice QCD. Physical Review Letters, 2004, 92, 242002.	7.8	155
97	Towards a Connection between Nuclear Structure and QCD. Progress of Theoretical Physics Supplement, 2004, 156, 124-136.	0.1	29
98	Nucleon electromagnetic form factors from lattice QCD. European Physical Journal A, 2004, 19, 9-14.	2.5	35
99	The strangeness magnetic moment of the nucleon from FLIC fermions. Nuclear Physics, Section B, Proceedings Supplements, 2004, 128, 132-140.	0.4	1
100	Chiral extrapolation and physical insights. Nuclear Physics, Section B, Proceedings Supplements, 2004, 128, 227-232.	0.4	9
101	Observing chiral nonanalytic behavior with FLIC fermions. Nuclear Physics A, 2004, 737, 177-181.	1.5	5
102	Recent developments in quark nuclear physics. European Physical Journal A, 2003, 18, 241-245.	2.5	3
103	FLIC fermions and hadron phenomenology. European Physical Journal A, 2003, 18, 247-252.	2.5	11
104	Convergence of chiral effective field theory. Progress in Particle and Nuclear Physics, 2003, 50, 399-417.	14.4	122
105	Progress in the calculation of nucleon form factors and parton distribution functions. Nuclear Physics A, 2003, 721, C915-C921.	1.5	3
106	QCD AND HADRON STRUCTURE. Modern Physics Letters A, 2003, 18, 347-355.	1.2	1
107	Chiral analysis of quenched baryon masses. Physical Review D, 2002, 66, .	4.7	116
108	Chiral behaviour of baryon masses in quenched lattice QCD. Nuclear Physics, Section B, Proceedings Supplements, 2002, 109, 55-59.	0.4	6

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109	QUENCHED CHIRAL PHYSICS IN BARYON MASSES. , 2002, , .		0
110	Chiral Symmetry and the Intrinsic Structure of the Nucleon. Physical Review Letters, 2001, 86, 5011-5014.	7.8	52
111	Hadron Structure and QCD: Effective Field Theory for Lattice Simulations. , 0, , 113-129.		2