

# Ræd Young

## List of Publications by Year in descending order

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111  
papers

3,425  
citations

126907

33  
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144013

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g-index

113  
all docs

113  
docs citations

113  
times ranked

1970  
citing authors

#	ARTICLE	IF	CITATIONS
1	Scattering processes and resonances from lattice QCD. <i>Reviews of Modern Physics</i> , 2018, 90, .	45.6	192
2	Dark Matter, Constrained Minimal Supersymmetric Standard Model, and Lattice QCD. <i>Physical Review Letters</i> , 2009, 103, 201802.	7.8	165
3	Physical Nucleon Properties from Lattice QCD. <i>Physical Review Letters</i> , 2004, 92, 242002.	7.8	155
4	Octet baryon masses and sigma terms from an SU(3) chiral extrapolation. <i>Physical Review D</i> , 2010, 81, .	4.7	143
5	Lattice QCD Evidence that the $\hat{\chi}$ <i>Physical Review Letters</i> , 2015, 114, 132002.	5.7	141
6	Precise Determination of the Strangeness Magnetic Moment of the Nucleon. <i>Physical Review Letters</i> , 2005, 94, 212001.	7.8	133
7	Nucleon Structure Functions from Operator Product Expansion on the Lattice. <i>Physical Review Letters</i> , 2017, 118, 242001.	7.8	126
8	Precision measurement of the weak charge of the proton. <i>Nature</i> , 2018, 557, 207-211.	27.8	124
9	Limits on variations of the quark masses, QCD scale, and fine structure constant. <i>Physical Review D</i> , 2004, 69, .	4.7	123
10	Convergence of chiral effective field theory. <i>Progress in Particle and Nuclear Physics</i> , 2003, 50, 399-417.	14.4	122
11	Chiral analysis of quenched baryon masses. <i>Physical Review D</i> , 2002, 66, .	4.7	116
12	Extracting Nucleon Strange and Anapole Form Factors from World Data. <i>Physical Review Letters</i> , 2006, 97, 102002.	7.8	105
13	First Determination of the Weak Charge of the Proton. <i>Physical Review Letters</i> , 2013, 111, 141803.	7.8	102
14	Strange Electric Form Factor of the Proton. <i>Physical Review Letters</i> , 2006, 97, 022001.	7.8	89
15	Testing the Standard Model by Precision Measurement of the Weak Charges of Quarks. <i>Physical Review Letters</i> , 2007, 99, 122003.	7.8	83
16	Mass of the $H$ Dibaryon. <i>Physical Review Letters</i> , 2011, 107, 092004.	7.8	65
17	Leading quenching effects in the proton magnetic moment. <i>Physical Review D</i> , 2005, 71, .	4.7	54
18	Chiral Symmetry and the Intrinsic Structure of the Nucleon. <i>Physical Review Letters</i> , 2001, 86, 5011-5014.	7.8	52

#	ARTICLE	IF	CITATIONS
19	Sigma terms from an SU(3) chiral extrapolation. Physical Review D, 2013, 87, .	4.7	51
20	Chiral extrapolation of nucleon magnetic form factors. Physical Review D, 2007, 75, .	4.7	50
21	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
22	Strange magnetic form factor of the proton at $Q^2=0.23\text{ GeV}^2$ . Physical Review C, 2009, 79, .	2.9	47
23	Chiral extrapolation of octet-baryon charge radii. Physical Review D, 2009, 79, .	4.7	47
24	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
25	Finite-volume matrix Hamiltonian model for a $\hat{I}$ system. Physical Review D, 2013, 87, .	4.7	46
26	Magnetic form factors of the octet baryons from lattice QCD and chiral extrapolation. Physical Review D, 2014, 89, .	4.7	46
27	Finite-volume Hamiltonian method for coupled-channels interactions in lattice QCD. Physical Review C, 2014, 90, .	2.9	40
28	Electromagnetic form factors at large momenta from lattice QCD. Physical Review D, 2017, 96, .	4.7	37
29	Constrained $\hat{I}^3$ interference corrections to parity-violating electron scattering. Physical Review D, 2013, 88, .	4.7	36
30	Disconnected contributions to the spin of the nucleon. Physical Review D, 2015, 92, .	4.7	36
31	Nucleon electromagnetic form factors from lattice QCD. European Physical Journal A, 2004, 19, 9-14.	2.5	35
32	Recent results on nucleon sigma terms in lattice QCD. Nuclear Physics A, 2010, 844, 266c-271c.	1.5	35
33	Electric form factors of the octet baryons from lattice QCD and chiral extrapolation. Physical Review D, 2014, 90, .	4.7	35
34	Feynman-Hellmann approach to the spin structure of hadrons. Physical Review D, 2014, 90, .	4.7	32
35	Towards a Connection between Nuclear Structure and QCD. Progress of Theoretical Physics Supplement, 2004, 156, 124-136.	0.1	29
36	Extrapolation of lattice QCD results beyond the power-counting regime. Nuclear Physics A, 2005, 755, 59-70.	1.5	27

#	ARTICLE	IF	CITATIONS
37	Finite-volume and partial quenching effects in the magnetic polarizability of the neutron. <i>Physical Review D</i> , 2014, 89, .	4.7	27
38	Search for the pentaquark resonance signature in lattice QCD. <i>Physical Review D</i> , 2005, 72, .	4.7	23
39	Systematic uncertainties in the precise determination of the strangeness magnetic moment of the nucleon. <i>European Physical Journal A</i> , 2005, 24, 79-84.	2.5	22
40	Unified chiral analysis of the vector meson spectrum from lattice QCD. <i>Journal of Physics G: Nuclear and Particle Physics</i> , 2006, 32, 971-991.	3.6	22
41	Chiral extrapolations for nucleon magnetic moments. <i>Physical Review D</i> , 2012, 85, .	4.7	22
42	Chiral extrapolations for nucleon electric charge radii. <i>Physical Review D</i> , 2013, 88, .	4.7	21
43	Lattice QCD evaluation of the Compton amplitude employing the Feynman-Hellmann theorem. <i>Physical Review D</i> , 2020, 102, .	4.7	21
44	Accelerating Lattice Quantum Field Theory Calculations via Interpolator Optimization Using Noisy Intermediate-Scale Quantum Computing. <i>Physical Review Letters</i> , 2020, 124, 080501.	7.8	20
45	Spin-3/2 pentaquark resonance signature in lattice QCD. <i>Physical Review D</i> , 2005, 72, .	4.7	18
46	Dispersive estimate of the electromagnetic charge symmetry violation in the octet baryon masses. <i>Physical Review C</i> , 2014, 90, .	2.9	18
47	Power counting regime of chiral effective field theory and beyond. <i>Physical Review D</i> , 2010, 82, .	4.7	17
48	Determination of the Strange Nucleon Form Factors. <i>Physical Review Letters</i> , 2015, 114, 091802.	7.8	17
49	Quark-hadron duality constraints on $\hat{Z}$ box corrections to parity-violating elastic scattering. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2016, 753, 221-226.	4.1	17
50	Nucleon matrix elements using the variational method in lattice QCD. <i>Physical Review D</i> , 2016, 94, .	4.7	17
51	QED effects in the pseudoscalar meson sector. <i>Journal of High Energy Physics</i> , 2016, 2016, 1-24.	4.7	17
52	Charge symmetry breaking in parton distribution functions from lattice QCD. <i>Physical Review D</i> , 2011, 83, .	4.7	16
53	Chiral extrapolation of nucleon magnetic moments at next-to-leading-order. <i>Physical Review D</i> , 2012, 86, .	4.7	16
54	Strong contribution to octet baryon mass splittings. <i>Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics</i> , 2013, 718, 1148-1153.	4.1	16

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55	Electromagnetic contribution to the proton-neutron mass splitting. Physical Review C, 2015, 91, .	2.9	16
56	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
57	Charged multihadron systems in lattice $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{QCD} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{QED} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ . Physical Review D, 2021, 103, .	4.7	15
58	An analysis of the nucleon spectrum from lattice partially-quenched QCD. Nuclear Physics A, 2010, 840, 97-119.	1.5	14
59	Octet Spin Fractions and the Proton Spin Problem. Physical Review Letters, 2013, 110, 202001.	7.8	14
60	FLIC fermions and hadron phenomenology. European Physical Journal A, 2003, 18, 247-252.	2.5	11
61	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
62	Charge symmetry breaking from a chiral extrapolation of moments of quark distribution functions. Physical Review D, 2013, 87, .	4.7	10
63	Electromagnetic contribution to $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \hat{\Sigma} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle - \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \text{mathvariant="normal"} \rangle \hat{\Delta} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ mixing using lattice $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mi} \rangle \text{QCD} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle + \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle \text{QED} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle$ .	4.7	10
64	Generalized parton distributions from the off-forward Compton amplitude in lattice QCD. Physical Review D, 2022, 105, .	4.7	10
65	Chiral extrapolation and physical insights. Nuclear Physics, Section B, Proceedings Supplements, 2004, 128, 227-232.	0.4	9
66	Chiral extrapolation beyond the power-counting regime. Physical Review D, 2011, 84, .	4.7	9
67	Finite-volume corrections to charge radii. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2013, 725, 101-105.	4.1	9
68	SU(3) breaking in hyperon transition vector form factors. Physical Review D, 2015, 92, .	4.7	8
69	Strange Quarks and Lattice QCD. Few-Body Systems, 2013, 54, 123-128.	1.5	7
70	Charge symmetry violation in the electromagnetic form factors of the nucleon. Physical Review D, 2015, 91, .	4.7	7
71	Chiral behaviour of baryon masses in quenched lattice QCD. Nuclear Physics, Section B, Proceedings Supplements, 2002, 109, 55-59.	0.4	6
72	Finite-range regularisation and chiral extrapolation. Nuclear Physics, Section B, Proceedings Supplements, 2005, 141, 233-237.	0.4	6

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73	Hadronic $\hat{1}^3Z$ box corrections in MÅller scattering. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2014, 731, 287-292.	4.1	6
74	Observing chiral nonanalytic behavior with FLIC fermions. Nuclear Physics A, 2004, 737, 177-181.	1.5	5
75	Finite volume dependence of hadron properties and lattice QCD. Journal of Physics: Conference Series, 2005, 9, 321-330.	0.4	5
76	SU(3) chiral perturbation theory expansion of moments of quark distributions. Physical Review D, 2013, 87, .	4.7	5
77	Patterns of flavor symmetry breaking in hadron matrix elements involving u , d , and s quarks. Physical Review D, 2019, 100, .	4.7	5
78	Recent developments in quark nuclear physics. European Physical Journal A, 2003, 18, 241-245.	2.5	3
79	Progress in the calculation of nucleon form factors and parton distribution functions. Nuclear Physics A, 2003, 721, C915-C921.	1.5	3
80	Searches for Physics Beyond the Standard Model. Journal of Physics: Conference Series, 2011, 299, 012012.	0.4	3
81	Momentum transfer dependence of the protonâ€™s electric and magnetic polarizabilities. Physical Review D, 2014, 89, .	4.7	3
82	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
83	Accessing high-momentum nucleons with dilute stochastic sources. Journal of Physics C: Nuclear and Particle Physics, 2018, 45, 125102.	3.6	3
84	State mixing and masses of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msup} \langle \text{mml:mi} \rangle \tilde{\epsilon} \langle \text{mml:mi} \rangle \langle \text{mml:mn} \rangle 0 \langle \text{mml:mn} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle , \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:mi} \rangle \hat{l} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle$ and $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \rangle \langle \text{mml:msup} \langle \text{mml:mi} \rangle \hat{l} \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{\epsilon}^2 \langle \text{mml:mo} \rangle \langle \text{mml:msup} \rangle \langle \text{mml:math} \rangle$ mesons	4.7	3
85	Lattice QCD Studies of Pentaquarks and Exotics. Nuclear Physics, Section B, Proceedings Supplements, 2006, 153, 348-353.	0.4	2
86	Recent Developments Concerning the Role of Strangeness in the Nucleon. Nuclear Physics A, 2007, 782, 1-8.	1.5	2
87	Unravelling strange quarks in nucleon structure. , 2010, , .		2
88	Neutralino-hadron scattering in the next-to-minimal supersymmetric standard model. Physical Review D, 2012, 86, .	4.7	2
89	Finite-Volume Hamiltonian Method for $\tilde{\epsilon}\tilde{\epsilon}$ Scattering in Lattice QCD. , 2016, , .		2
90	Strangeness in the proton. Nature, 2017, 544, 419-420.	27.8	2

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91	Hadron Structure and QCD: Effective Field Theory for Lattice Simulations. , 0, , 113-129.		2
92	QCD AND HADRON STRUCTURE. Modern Physics Letters A, 2003, 18, 347-355.	1.2	1
93	The strangeness magnetic moment of the nucleon from FLIC fermions. Nuclear Physics, Section B, Proceedings Supplements, 2004, 128, 132-140.	0.4	1
94	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
95	Chiral Effective Field Theory Beyond the Power-Counting Regime. , 2011, , .		1
96	The $\{Q^{\{p\}}_{\{m\} Weak}\}$ experiment. Hyperfine Interactions, 2013, 214, 21-30.	0.5	1
97	Early Results from the QweakExperiment. EPJ Web of Conferences, 2014, 66, 05002.	0.3	1
98	The tracking analysis in the Q-weak experiment. Hyperfine Interactions, 2016, 237, 1.	0.5	1
99	Qweak: First Direct Measurement of the Proton's Weak Charge. EPJ Web of Conferences, 2017, 137, 08005.	0.3	1
100	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
101	Strangeness contributions to nucleon form factors. European Physical Journal A, 2007, 32, 439-443.	2.5	0
102	Aspects of SU(3) baryon extrapolation. , 2009, , .		0
103	Chiral behavior of baryon magnetic moments. , 2010, , .		0
104	Finite Volume Corrections to the Nucleon Axial Charge. , 2011, , .		0
105	Axial Form Factor of the Nucleon in a Finite Spherical Cavity. , 2011, , .		0
106	Nucleon Structure in the Search for New Physics. , 2011, , .		0
107	Progress in resolving charge symmetry violation in nucleon structure. International Journal of Modern Physics E, 2014, 23, 1461010.	1.0	0
108	Charge symmetry violation in the determination of strangeness form factors. Physical Review C, 2020, 102, .	2.9	0

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109	QUENCHED CHIRAL PHYSICS IN BARYON MASSES. , 2002, , .		0
110	Baryon Spectroscopy and the Constituent Quark Model. , 2007, , .		0
111	Progress in resolving charge symmetry violation in nucleon structure. , 2014, , .		0