

# Robert G Edwards

## List of Publications by Year in descending order

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50  
papers

4,606  
citations

94433

37  
h-index

189892

50  
g-index

53  
all docs

53  
docs citations

53  
times ranked

1436  
citing authors

#	ARTICLE	IF	CITATIONS
1	The Chroma Software System for Lattice QCD. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 832-834.	0.4	572
2	Excited state baryon spectroscopy from lattice QCD. Physical Review D, 2011, 84, .	4.7	289
3	Novel quark-field creation operator construction for hadronic physics in lattice QCD. Physical Review D, 2009, 80, .	4.7	198
4	First results from $2+1$ dynamical quark flavors on an anisotropic lattice: Light-hadron spectroscopy and setting the strange-quark mass. Physical Review D, 2009, 79, .	4.7	177
5	Toward the excited meson spectrum of dynamical QCD. Physical Review D, 2010, 82, .	4.7	174
6	Excited and exotic charmonium spectroscopy from lattice QCD. Journal of High Energy Physics, 2012, 2012, 1.	4.7	172
7	Energy dependence of the $\bar{K}^*$ resonance in coupled elastic scattering from lattice QCD. Physical Review Letters, 2017, 118, 022002.	4.7	169
8	Highly Excited and Exotic Meson Spectrum from Dynamical Lattice QCD. Physical Review Letters, 2009, 103, 262001.	4.7	152
9	Isoscalar $\bar{K}^*$ Scattering and the $\bar{K}^*$ Resonance from QCD. Physical Review Letters, 2017, 118, 022002.	7.8	135
10	Isoscalar $\bar{K}^*$ Scattering and the $\bar{K}^*$ Resonance from QCD. Physical Review Letters, 2017, 118, 022002.	7.8	135
11	Isoscalar meson spectroscopy from lattice QCD. Physical Review D, 2011, 83, .	4.7	131
12	Resonances in coupled $\bar{K}^*$ scattering from lattice QCD. Physical Review Letters, 2014, 113, 182001.	4.7	130
13	Charmonium excited state spectrum in lattice QCD. Physical Review D, 2008, 77, .	4.7	125
14	Flavor structure of the excited baryon spectra from lattice QCD. Physical Review D, 2013, 87, .	4.7	123
15	Isoscalar meson spectroscopy from lattice QCD. Physical Review D, 2011, 83, .	4.7	121
16	Toward the excited isoscalar meson spectrum from lattice QCD. Physical Review D, 2013, 88, .	4.7	115
17	Resonances in coupled $\bar{K}^*$ scattering from lattice QCD. Physical Review D, 2015, 91, .	4.7	107
18	Resonances in strongly coupled $\bar{K}^*$ scattering from Quantum Chromodynamics. Physical Review Letters, 2014, 113, 182001.	4.7	106

#	ARTICLE	IF	CITATIONS
19	Coupled-channel scattering on a torus. Physical Review D, 2013, 88, .	4.7	102
20	Tuning for three flavors of anisotropic clover fermions with stout-link smearing. Physical Review D, 2008, 78, .	4.7	99
21	Exotic and excited-state radiative transitions in charmonium from lattice QCD. Physical Review D, 2009, 79, .	4.7	87
22	Hybrid baryons in QCD. Physical Review D, 2012, 85, .	4.7	83
23	Isoscalar $\langle \mathbf{K}   \hat{A}   \mathbf{K} \rangle$ scattering from lattice QCD. Physical Review D, 2011, 83, .	4.7	81
24	Resonant $\hat{A}^{\dagger}   \mathbf{K} \rangle$ and the resonant $\langle \mathbf{K}   \hat{A}   \mathbf{K} \rangle$ scattering from lattice QCD. Physical Review D, 2011, 83, .	4.7	65
25	Pion valence quark distribution from current-current correlation in lattice QCD. Physical Review D, 2020, 102, .	4.7	65
26	Clebsch-Gordan construction of lattice interpolated fields for excited baryons. Physical Review D, 2005, 72, .	4.7	63
27	Excited state nucleon spectrum with two flavors of dynamical fermions. Physical Review D, 2009, 79, .	4.7	59
28	Helicity operators for mesons in flight on the lattice. Physical Review D, 2012, 85, .	4.7	59
29	Spectroscopy of doubly charmed baryons from lattice QCD. Physical Review D, 2015, 91, .	4.7	58
30	Hadrons and nuclei. European Physical Journal A, 2019, 55, 1.	2.5	58
31	Phase shift of isospin-2 $\langle \mathbf{K}   \hat{A}   \mathbf{K} \rangle$ scattering from lattice QCD. Physical Review D, 2011, 83, .	4.7	56
32	Resonant $\hat{A}^{\dagger}   \mathbf{K} \rangle$ from Quantum Chromodynamics. Physical Review Letters, 2015, 115, 242001.	4.7	55
33	Spectroscopy of triply charmed baryons from lattice QCD. Physical Review D, 2014, 90, .	4.7	52
34	Tetraquark operators in lattice QCD and exotic flavour states in the charm sector. Journal of High Energy Physics, 2017, 2017, 1.	4.7	46
35	Resonance in coupled $\langle \mathbf{K}   \hat{A}   \mathbf{K} \rangle$ scattering from lattice QCD. Physical Review D, 2011, 83, .	4.7	40
36	Excited meson radiative transitions from lattice QCD using variationally optimized operators. Physical Review D, 2015, 91, .	4.7	39

#	ARTICLE	IF	CITATIONS
37	Status and future perspectives for lattice gauge theory calculations to the exascale and beyond. European Physical Journal A, 2019, 55, 1.	2.5	37
38	Dynamically-coupled partial-waves in $\pi\pi$ isospin-2 scattering from lattice QCD. Journal of High Energy Physics, 2018, 2018, 1.	4.7	36
39	Decays of an exotic $\chi_{c1}$ hybrid meson resonance in QCD. Physical Review D, 2021, 103, .	7.7	15
40	Quark-Mass Dependence of Elastic $\pi\pi$ Scattering from QCD. Physical Review Letters, 2019, 123, 042002.	7.8	33
41	Lattice study of the $N\pi$ transition form factors. Physical Review D, 2008, 78, .	4.7	27
42	Energy-Dependent $\pi\pi$ Scattering Amplitude from QCD. Physical Review Letters, 2021, 126, 012001.	4.8	26
43	Towards high-precision parton distributions from lattice QCD via distillation. Journal of High Energy Physics, 2021, 2021, 1.	4.7	17
44	Distillation at high momentum. Physical Review D, 2021, 103, .	4.7	12
45	Publisher's Note: Helicity operators for mesons in flight on the lattice [Phys. Rev. D <b>85</b> , 014507 (2012)]. Physical Review D, 2012, 85, .	4.7	6
46	Lattice QCD and the Jefferson Lab Program. Journal of Physics: Conference Series, 2011, 299, 012007.	0.4	4
47	Exploring the spectrum of QCD using the lattice. Journal of Physics: Conference Series, 2009, 180, 012067.	0.4	3
48	Energy dependence of the $\rho$ resonance in $\pi\pi$ elastic scattering from lattice QCD. , 0, .		2
49	Nuclear physics using lattice QCD in the SciDAC era. Journal of Physics: Conference Series, 2009, 180, 012069.	0.4	1
50	An anisotropic preconditioning for the Wilson fermion matrix on the lattice. Computational Science & Discovery, 2010, 3, 015001.	1.5	0