

# Hartmut Wittig

## List of Publications by Year in descending order

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Version: 2024-02-01

51  
papers

3,932  
citations

185998

28  
h-index

233125

45  
g-index

52  
all docs

52  
docs citations

52  
times ranked

5179  
citing authors

#	ARTICLE	IF	CITATIONS
1	Continuum limit of baryon-baryon scattering with SU(3) flavor symmetry. , 2022, , .		2
2	\$\$ dibaryon away from the \$SU(3)_f\$ symmetric point. , 2022, , .		2
3	Isvector electromagnetic form factors of the nucleon from lattice QCD and the proton radius puzzle. Physical Review D, 2021, 103, .	1.6	22
4	Weakly Bound $\langle \langle \text{mml:mrow} \langle \text{mml:mi} \text{H} \langle \text{mml:mi} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:math} \rangle \text{Dibaryon from SU(3)-Flavor-Symmetric QCD. Physical Review Letters, 2021, 127, 242003.$	2.9	23
5	The anomalous magnetic moment of the muon in the Standard Model. Physics Reports, 2020, 887, 1-166.	10.3	790
6	Rho resonance, timelike pion form factor, and implications for lattice studies of the hadronic vacuum polarization. Physical Review D, 2020, 101, .	1.6	24
7	Lattice calculation of the hadronic leading order contribution to the muon $g \hat{a}^2$ . EPJ Web of Conferences, 2020, 234, 01016.	0.1	0
8	FLAG Review 2019. European Physical Journal C, 2020, 80, 1.	1.4	486
9	Leading hadronic contribution to $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mrow} \langle \text{mml:mo} \text{stretchy="false"} \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle g \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \hat{a}^2 \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mrow} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle \text{Dibaryon from lattice QCD with$	1.6	88
10	Lattice QCD study of the $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:mi} \rangle \text{H} \langle \text{mml:mi} \rangle \langle \text{mml:math} \rangle \text{dibaryon using hexaquark and two-baryon interpolators. Physical Review D, 2019, 99, .}$	1.6	45
11	Nucleon isovector charges and twist-2 matrix elements with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle \text{dynamical Wilson quarks. Physical Review D, 2019, 100, .}$	1.6	41
12	Isvector axial form factors of the nucleon in two-flavor lattice QCD. International Journal of Modern Physics A, 2019, 34, 1950009.	0.5	49
13	Strange Electromagnetic Form Factors of the Nucleon with $\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline">\langle \text{mml:msub} \rangle \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:msub} \rangle \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \langle \text{mml:math} \rangle \text{Lattice QCD study of the$	2.9	19
14	Lattice QCD and the anomalous magnetic moment of the muon. Progress in Particle and Nuclear Physics, 2019, 104, 46-96.	5.6	46
15	The H dibaryon from lattice QCD with SU(3) flavorsymmetry. , 2019, , .		1
16	Parton distributions and lattice QCD calculations: A community white paper. Progress in Particle and Nuclear Physics, 2018, 100, 107-160.	5.6	186
17	Towards leading isospin breaking effects in mesonic masses with $O(a)$ improved Wilson fermions. EPJ Web of Conferences, 2018, 175, 14019.	0.1	8
18	Hadronic light-by-light scattering amplitudes from lattice QCD versus dispersive sum rules. Physical Review D, 2018, 98, .	1.6	17

#	ARTICLE	IF	CITATIONS
19	Towards extracting the timelike pion form factor on CLS twoflavour ensembles. EPJ Web of Conferences, 2018, 175, 05027.	0.1	5
20	A lattice calculation of the hadronic vacuum polarization contribution to $(g - 2)_\mu$ . EPJ Web of Conferences, 2018, 175, 06031.	0.1	6
21	Nucleon matrix elements from lattice QCD with all-mode-averaging and a domain-decomposed solver: An exploratory study. Nuclear Physics B, 2017, 914, 138-159.	0.9	18
22	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2017, 77, 112.	1.4	439
23	The hadronic vacuum polarization contribution to the muon $g - 2$ from lattice QCD. Journal of High Energy Physics, 2017, 2017, 1.	1.6	66
24	Towards extracting the timelike pion form factor on CLS 2-flavour ensembles. , 2016, , .		3
25	Nucleon electromagnetic form factors in two-flavor QCD. Physical Review D, 2015, 92, .	1.6	48
26	Scalar pion form factor in two-flavor lattice QCD. Physical Review D, 2014, 89, .	1.6	22
27	The shape of covariantly smeared sources in lattice QCD. Journal of High Energy Physics, 2013, 2013, 1.	1.6	7
28	The pion vector form factor from lattice QCD and NNLO chiral perturbation theory. Journal of High Energy Physics, 2013, 2013, 1.	1.6	32
29	New representation of the Adler function for lattice QCD. Physical Review D, 2013, 88, .	1.6	54
30	LOW-ENERGY QCD II " STATUS OF LATTICE CALCULATIONS. Modern Physics Letters A, 2013, 28, 1360013.	0.5	0
31	Nucleon axial charge in lattice QCD with controlled errors. Physical Review D, 2012, 86, .	1.6	86
32	Improved interpolating fields for hadrons at non-zero momentum. European Physical Journal A, 2012, 48, 1.	1.0	12
33	Towards a precise lattice determination of the leading hadronic contribution to $(g - 2)_\mu$ . Journal of High Energy Physics, 2012, 2012, 1.	1.6	70
34	Hadronic contribution to the lepton anomalous magnetic moment and pion form factor in lattice QCD. Progress in Particle and Nuclear Physics, 2012, 67, 223-227.	5.6	1
35	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2011, 71, 1.	1.4	198
36	Form factors in lattice QCD. European Physical Journal: Special Topics, 2011, 198, 79-94.	1.2	13

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37	Nonperturbative Determination of the QCD Potential at $O(1/m)$ . Physical Review Letters, 2006, 97, 122003.	2.9	123
38	Numerical techniques for lattice QCD in the $\bar{\mu}$ -regime. Computer Physics Communications, 2003, 153, 31-51.	3.0	107
39	Strangeness in lattice QCD. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, 523-533.	1.4	1
40	Precision computation of the strange quark's mass in quenched QCD. Nuclear Physics B, 2000, 571, 237-256.	0.9	109
41	String Breaking in Non-Abelian Gauge Theories with Fundamental Matter Fields. Physical Review Letters, 1998, 81, 4056-4059.	2.9	75
42	Effect of tree-level and mean-field improvement on the light-hadron spectrum in quenched QCD. Physical Review D, 1997, 55, 1548-1558.	1.6	23
43	Leptonic Decays of Heavy Quarks on the Lattice. International Journal of Modern Physics A, 1997, 12, 4477-4538.	0.5	27
44	Non-perturbative determination of the axial current normalization constant in $O(a)$ improved lattice QCD. Nuclear Physics B, 1997, 491, 344-361.	0.9	223
45	Heavy baryon spectroscopy from the lattice. Physical Review D, 1996, 54, 3619-3633.	1.6	69
46	Heavy quark spectroscopy and matrix elements: A lattice study using the static approximation. Physical Review D, 1996, 54, 3526-3545.	1.6	37
47	Lattice study of semileptonic $B_c \rightarrow \bar{d} \ell^+ \frac{1}{2} \bar{A}^-$ decays. Physical Review D, 1995, 52, 5067-5094.	1.6	29
48	Improved $\bar{c} \rightarrow \bar{s}$ lattice study of semileptonic decays of $D$ mesons. Physical Review D, 1995, 51, 4905-4923.	1.6	35
49	Light hadron spectrum and decay constants in quenched lattice QCD. Physical Review D, 1994, 49, 474-485.	1.6	46
50	The Isgur-Wise function from the lattice. Physical Review Letters, 1994, 72, 462-465.	2.9	47
51	Quenched heavy-light decay constants. Physical Review D, 1994, 49, 1594-1605.	1.6	52