

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 | The anomalous magnetic moment of the muon in the Standard Model. Physics Reports, 2020, 887, 1-166. | 10.3 | 790 |
| 2 | FLAG Review 2019. European Physical Journal C, 2020, 80, 1. | 1.4 | 486 |
| 3 | Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2017, 77, 112. | 1.4 | 439 |
| 4 | 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 |
| 5 | Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2011, 71, 1. | 1.4 | 198 |
| 6 | Parton distributions and lattice QCD calculations: A community white paper. Progress in Particle and Nuclear Physics, 2018, 100, 107-160. | 5.6 | 186 |
| 7 | Nonperturbative Determination of the QCD Potential at $O(1/m)$. Physical Review Letters, 2006, 97, 122003. | 2.9 | 123 |
| 8 | Precision computation of the strange quark's mass in quenched QCD. Nuclear Physics B, 2000, 571, 237-256. | 0.9 | 109 |
| 9 | Numerical techniques for lattice QCD in the \bar{L} -regime. Computer Physics Communications, 2003, 153, 31-51. | 3.0 | 107 |
| 10 | Leading hadronic contribution to $\langle \mathcal{O} \rangle$ from lattice QCD with $N_f=2$ from lattice QCD with $N_f=2$. Physica | 1.6 | 88 |
| 11 | Nucleon axial charge in lattice QCD with controlled errors. Physical Review D, 2012, 86, . | 1.6 | 86 |
| 12 | String Breaking in Non-Abelian Gauge Theories with Fundamental Matter Fields. Physical Review Letters, 1998, 81, 4056-4059. | 2.9 | 75 |
| 13 | Towards a precise lattice determination of the leading hadronic contribution to $(g_A^{\mu})^2$. Journal of High Energy Physics, 2012, 2012, 1. | 1.6 | 70 |
| 14 | Heavy baryon spectroscopy from the lattice. Physical Review D, 1996, 54, 3619-3633. | 1.6 | 69 |
| 15 | The hadronic vacuum polarization contribution to the muon g_A^{μ} from lattice QCD. Journal of High Energy Physics, 2017, 2017, 1. | 1.6 | 66 |
| 16 | New representation of the Adler function for lattice QCD. Physical Review D, 2013, 88, . | 1.6 | 54 |
| 17 | Quenched heavy-light decay constants. Physical Review D, 1994, 49, 1594-1605. | 1.6 | 52 |
| 18 | Isovector axial form factors of the nucleon in two-flavor lattice QCD. International Journal of Modern Physics A, 2019, 34, 1950009. | 0.5 | 49 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 19 | Nucleon electromagnetic form factors in two-flavor QCD. Physical Review D, 2015, 92, . | 1.6 | 48 |
| 20 | The Isgur-Wise function from the lattice. Physical Review Letters, 1994, 72, 462-465. | 2.9 | 47 |
| 21 | Light hadron spectrum and decay constants in quenched lattice QCD. Physical Review D, 1994, 49, 474-485. | 1.6 | 46 |
| 22 | Lattice QCD and the anomalous magnetic moment of the muon. Progress in Particle and Nuclear Physics, 2019, 104, 46-96. | 5.6 | 46 |
| 23 | Lattice QCD study of the H dibaryon using hexaquark and two-baryon interpolators. Physical Review D, 2019, 99, . | 1.6 | 45 |
| 24 | Nucleon isovector charges and twist-2 matrix elements with dynamical Wilson quarks. Physical Review D, 2019, 100, . | 1.6 | 41 |
| 25 | Heavy quark spectroscopy and matrix elements: A lattice study using the static approximation. Physical Review D, 1996, 54, 3526-3545. | 1.6 | 37 |
| 26 | Improved lattice study of semileptonic decays of D mesons. Physical Review D, 1995, 51, 4905-4923. | 1.6 | 35 |
| 27 | The pion vector form factor from lattice QCD and NNLO chiral perturbation theory. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 32 |
| 28 | Lattice study of semileptonic B decays: $B \rightarrow \pi \ell^+ \ell^-$ decays. Physical Review D, 1995, 52, 5067-5094. | 1.6 | 29 |
| 29 | Leptonic Decays of Heavy Quarks on the Lattice. International Journal of Modern Physics A, 1997, 12, 4477-4538. | 0.5 | 27 |
| 30 | Rho resonance, timelike pion form factor, and implications for lattice studies of the hadronic vacuum polarization. Physical Review D, 2020, 101, . | 1.6 | 24 |
| 31 | 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 |
| 32 | Weakly Bound H Dibaryon from SU(3)-Flavor-Symmetric QCD. Physical Review Letters, 2021, 127, 242003. | 2.9 | 23 |
| 33 | Scalar pion form factor in two-flavor lattice QCD. Physical Review D, 2014, 89, . | 1.6 | 22 |
| 34 | Isvector electromagnetic form factors of the nucleon from lattice QCD and the proton radius puzzle. Physical Review D, 2021, 103, . | 1.6 | 22 |
| 35 | Strange Electromagnetic Form Factors of the Nucleon with $N_f=2$ Dynamical Wilson Quarks. Physical Review Letters, 2021, 127, 242003. | 2.9 | 19 |
| 36 | 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 |

| # | ARTICLE | IF | CITATIONS |
|----|---|-----|-----------|
| 37 | Hadronic light-by-light scattering amplitudes from lattice QCD versus dispersive sum rules. Physical Review D, 2018, 98, . | 1.6 | 17 |
| 38 | Form factors in lattice QCD. European Physical Journal: Special Topics, 2011, 198, 79-94. | 1.2 | 13 |
| 39 | Improved interpolating fields for hadrons at non-zero momentum. European Physical Journal A, 2012, 48, 1. | 1.0 | 12 |
| 40 | Towards leading isospin breaking effects in mesonic masses with O(a) improved Wilson fermions. EPJ Web of Conferences, 2018, 175, 14019. | 0.1 | 8 |
| 41 | The shape of covariantly smeared sources in lattice QCD. Journal of High Energy Physics, 2013, 2013, 1. | 1.6 | 7 |
| 42 | A lattice calculation of the hadronic vacuum polarization contribution to $(g \hat{=} 2) \hat{=} \mu$. EPJ Web of Conferences, 2018, 175, 06031. | 0.1 | 6 |
| 43 | Towards extracting the timelike pion form factor on CLS twoflavour ensembles. EPJ Web of Conferences, 2018, 175, 05027. | 0.1 | 5 |
| 44 | Towards extracting the timelike pion form factor on CLS 2-flavour ensembles. , 2016, , . | | 3 |
| 45 | Continuum limit of baryon-baryon scattering with SU(3) flavor symmetry. , 2022, , . | | 2 |
| 46 | $\$H\$$ dibaryon away from the $\$SU(3)_f\$$ symmetric point. , 2022, , . | | 2 |
| 47 | Strangeness in lattice QCD. Journal of Physics G: Nuclear and Particle Physics, 2001, 27, 523-533. | 1.4 | 1 |
| 48 | 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 |
| 49 | The H dibaryon from lattice QCD with SU(3) flavorsymmetry. , 2019, , . | | 1 |
| 50 | LOW-ENERGY QCD II $\hat{=} \epsilon^{\prime\prime}$ STATUS OF LATTICE CALCULATIONS. Modern Physics Letters A, 2013, 28, 1360013. | 0.5 | 0 |
| 51 | Lattice calculation of the hadronic leading order contribution to the muon $g \hat{=} 2$. EPJ Web of Conferences, 2020, 234, 01016. | 0.1 | 0 |