# Andre Walker-Loud

List of Publications by Year
in descending order



| | | | |
|---|---|---|---|
| 46 papers | 1,746 citations | 201674 27 h-index | 265206 42 g-index |
| 47 all docs | 47 docs citations | 47 times ranked | 980 citing authors |

| # | Article | IF | Citations |
|---|---|---|---|
| 1 | Evidence for a Bound<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>H</mml:mi></mml:math>Dibaryon from Lattice QCD. Physical Review Letters, 2011, 106, 162001. | 7.8 | 210 |
| 2 | Multichannel<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mo stretchy="false">â†’</mml:mo><mml:mn>2</mml:mn></mml:math>transition amplitudes in a finite volume. Physical Review D, 2015, 91, . | 4.7 | 92 |
| 3 | Precise determination of theI=2Ï€Ï€scattering length from mixed-action lattice QCD. Physical Review D, 2008, 77, . | 4.7 | 89 |
| 4 | Singly and doubly charmed<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mi>J</mml:mi><mml:mo>=</mml:mo><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:mn>2</mml:mn></m spectrum from lattice QCD. Physical Review D, 2010, 81, . | 4.7 | 74 |
| 5 | Kaon condensation with lattice QCD. Physical Review D, 2008, 78, . | 4.7 | 70 |
| 6 | High statistics analysis using anisotropic clover lattices. II. Three-baryon systems. Physical Review D, 2009, 80, . | 4.7 | 69 |
| 7 | Two-nucleon higher partial-wave scattering from lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 765, 285-292. | 4.1 | 68 |
| 8 | Electromagnetic Self-Energy Contribution to<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>M</mml:mi><mml:mi>p</mml:mi></mml:msub><mml:mo>â^’</mml:mo><mml:msub><mml:mi> the Isovector Nucleon Magnetic Polarizability. Physical Review Letters, 2012, 108, 232301. | 7.8 | 65 |
| 9 | PRESENT CONSTRAINTS ON THE H-DIBARYON AT THE PHYSICAL POINT FROM LATTICE QCD. Modern Physics Letters A, 2011, 26, 2587-2595. | 1.2 | 61 |
| 10 | High statistics analysis using anisotropic clover lattices: Single hadron correlation functions. Physical Review D, 2009, 79, . | 4.7 | 58 |
| 11 | High statistics analysis using anisotropic clover lattices: III. Baryon-baryon interactions. Physical Review D, 2010, 81, . | 4.7 | 57 |
| 12 | Octet baryon masses in partially quenched chiral perturbation theory. Nuclear Physics A, 2005, 747, 476-507. | 1.5 | 56 |
| 13 | Two meson systems with Ginsparg-Wilson valence quarks. Physical Review D, 2007, 75, . | 4.7 | 52 |
| 14 | Finite volume corrections toÏ€Ï€scattering. Physical Review D, 2006, 73, . | 4.7 | 46 |
| 15 | K+K+scattering length from lattice QCD. Physical Review D, 2008, 77, . | 4.7 | 46 |
| 16 | On the Feynman-Hellmann theorem in quantum field theory and the calculation of matrix elements. Physical Review D, 2017, 96, . | 4.7 | 45 |
| 17 | Ginsparg-Wilson pions scattering in a sea of staggered quarks. Physical Review D, 2006, 73, . | 4.7 | 44 |
| 18 | Universality of mixed action extrapolation formulae. Journal of High Energy Physics, 2009, 2009, 090-090. | 4.7 | 41 |

| # | Article | IF | Citations |
|---|---|---|---|
| 19 | Decuplet baryon masses in partially quenched chiral perturbation theory. Nuclear Physics A, 2005, 748, 513-536. | 1.5 | 40 |
| 20 | Neutrinoless double- <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>Î²</mml:mi></mml:math> decay in effective field theory: The light-Majorana neutrino-exchange mechanism. Physical Review C, 2018, 97, . | 2.9 | 38 |
| 21 | Hyperons in two-flavor chiral perturbation theory. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 669, 246-253. | 4.1 | 37 |
| 22 | Towards grounding nuclear physics in QCD. Progress in Particle and Nuclear Physics, 2021, 121, 103888. | 14.4 | 36 |
| 23 | Strong isospin breaking of the nucleon and delta masses on the lattice. Nuclear Physics A, 2006, 764, 274-302. | 1.5 | 34 |
| 24 | Lattice test of<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mn>1</mml:mn><mml:mo>/</mml:mo><mml:msub><mml:mi>N</mml:mi><mml:mi>c</mml:mi></mml:msub><mml:mo stretchy="false">)</mml:mo></mml:math> mass relations. Physical Review D, 2010, 81, . | 4.7 | 34 |
| 25 | Massive Photons: An Infrared Regularization Scheme for Lattice<mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:mrow><mml:mi>QCD</mml:mi><mml:mo>+</mml:mo><mml:mi>QED</mml:mi></mml:mrow></mml:math>. Physical Review Letters, 2016, 117, 072002. | 7.8 | 33 |
| 26 | Two-nucleon <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mi>S</mml:mi></mml:math> -wave interactions at the SU(3) flavor-symmetric point with <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:mrow><mml:msub><mml:mi>m</mml:mi><mml:mrow><mml:mi>u</mml:mi></mml:mrow></mml:msub></mml:mrow></mml:math>: A first lattice QCD calculation with the stochastic Lap. Physical Review C, 2021, 103, . | 2.9 | 30 |
| 27 | Mixed meson masses with domain-wall valence and staggered sea fermions. Physical Review D, 2008, 77, . | 4.7 | 28 |
| 28 | Lattice QCD spectroscopy for hadronic CP violation. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2017, 766, 254-262. | 4.1 | 27 |
| 29 | Mixed action effective field theory: An addendum. Physical Review D, 2009, 79, . | 4.7 | 26 |
| 30 | <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>F</mml:mi><mml:mi>K</mml:mi></mml:msub><mml:mo stretchy="false">/</mml:mo><mml:msub><mml:mi>F</mml:mi><mml:mi>Ï€</mml:mi></mml:msub></mml:math> from MÃ¶bius domain-wall fermions solved on gradient-flowed HISQ ensembles. Physical Review D, 2020, 102, . | 4.7 | 25 |
| 31 | Evidence for nonanalytic light quark mass dependence in the baryon spectrum. Physical Review D, 2012, 86, . | 4.7 | 18 |
| 32 | Nucleon and delta masses in twisted mass chiral perturbation theory. Physical Review D, 2005, 72, . | 4.7 | 16 |
| 33 | MÃ¶bius domain-wall fermions on gradient-flowed dynamical HISQ ensembles. Physical Review D, 2017, 96, . | 4.7 | 12 |
| 34 | Job Management and Task Bundling. EPJ Web of Conferences, 2018, 175, 09007. | 0.3 | 11 |
| 35 | Ï€Ï€scattering in twisted mass chiral perturbation theory. Physical Review D, 2009, 79, . | 4.7 | 9 |
| 36 | Scale setting the MÃ¶bius domain wall fermion on gradient-flowed HISQ action using the omega baryon mass and the gradient-flow scales <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>t</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:math> and <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"><mml:msub><mml:mi>w</mml:mi><mml:mn>0</mml:mn></mml:msub></mml:math>. Phy | 4.7 | 9 |

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|---|---|---|---|
| 37 | Heavy-baryon spectroscopy from lattice QCD. Computer Physics Communications, 2011, 182, 24-26. | 7.5 | 6 |
| 38 | Simulating the Weak Death of the Neutron in a Femtoscale Universe with Near-Exascale Computing. , 2018, , . | | 6 |
| 39 | Calm Multi-Baryon Operators. EPJ Web of Conferences, 2018, 175, 05029. | 0.3 | 5 |
| 40 | EspressoDB: A scientific database for managing high-performance computing workflows. Journal of Open Source Software, 2020, 5, 2007. | 4.6 | 5 |
| 41 | Neutrinoless double beta decay from lattice QCD. , 2016, , . | | 5 |
| 42 | Restless pions: Orbifold boundary conditions and noise suppression in lattice QCD. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2008, 660, 369-375. | 4.1 | 4 |
| 43 | Effective field theory for the anisotropic Wilson lattice action. Physical Review D, 2008, 77, . | 4.7 | 3 |
| 44 | Job Management with mpi_jm. Lecture Notes in Computer Science, 2018, , 432-439. | 1.3 | 2 |
| 45 | Detailed analysis of excited-state systematics in a lattice QCD calculation of <mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML"><mml:msub><mml:mi>g</mml:mi><mml:mi>A</mml:mi></mml:msub></mml:ma Physical Review C, 2022, 105, . | 2.9 | 2 |
| 46 | MESON SYSTEMS WITH GINSPARG-WILSON VALENCE QUARKS. , 2007, , . | | 0 |