

William Detmold

List of Publications by Year in descending order

Source: <https://exaly.com/author-pdf/2586542/publications.pdf>

Version: 2024-02-01

77
papers

2,981
citations

126907

33
h-index

168389

53
g-index

79
all docs

79
docs citations

79
times ranked

1666
citing authors

#	ARTICLE	IF	CITATIONS
1	Charmed bottom baryon spectroscopy from lattice QCD. Physical Review D, 2014, 90, .	4.7	198
2	$\hat{b} \rightarrow \hat{c} \ell \bar{\nu}_\ell$ lattice QCD. Physical Review D, 2015, 92, .	4.7	144
3	Deep-inelastic scattering and the operator product expansion in lattice QCD. Physical Review D, 2006, 73, .	4.7	101
4	Multipion Systems in Lattice QCD and the Three-Pion Interaction. Physical Review Letters, 2008, 100, 082004.	7.8	98
5	Dark nuclei. I. Cosmology and indirect detection. Physical Review D, 2014, 90, .	4.7	97
6	Two nucleon systems at finite volume and three-boson interactions. Physical Review D, 2007, 76, .	4.7	88
7	$\hat{b} \rightarrow \hat{c} \ell \bar{\nu}_\ell$ lattice QCD. Physical Review D, 2015, 92, .	4.7	87
8	n-boson energies at finite volume and three-boson interactions. Physical Review D, 2007, 76, .	4.7	82
9	Multipion states in lattice QCD and the charged-pion condensate. Physical Review D, 2008, 78, .	4.7	82
10	Electroweak matrix elements in the two-nucleon sector from lattice QCD. Nuclear Physics A, 2004, 743, 170-193.	1.5	72
11	Proton-Proton Fusion and Tritium β Decay from Lattice Quantum Chromodynamics. Physical Review Letters, 2017, 119, 062002.	7.8	71
12	Kaon condensation with lattice QCD. Physical Review D, 2008, 78, .	4.7	70
13	High statistics analysis using anisotropic clover lattices. II. Three-baryon systems. Physical Review D, 2009, 80, .	4.7	69
14	Calculation of the $\langle \bar{\psi} \psi \rangle$ Radiative Capture Process. Physical Review Letters, 2015, 115, 132001.	7.8	68
15	Lattice QCD at nonzero isospin chemical potential. Physical Review D, 2012, 86, .	4.7	67
16	Calculation of the heavy-hadron axial couplings $\langle \bar{\psi} \psi \rangle$ and $\langle \bar{\psi} \psi \rangle$. Physical Review D, 2015, 92, .	4.7	65
17	Magnetic structure of light nuclei from lattice QCD. Physical Review D, 2015, 92, .	4.7	62
18	High statistics analysis using anisotropic clover lattices: Single hadron correlation functions. Physical Review D, 2009, 79, .	4.7	58

#	ARTICLE	IF	CITATIONS
19	Dark nuclei. II. Nuclear spectroscopy in two-color QCD. Physical Review D, 2014, 90, .	4.7	58
20	Hadrons and nuclei. European Physical Journal A, 2019, 55, 1.	2.5	58
21	High statistics analysis using anisotropic clover lattices: III. Baryon-baryon interactions. Physical Review D, 2010, 81, .	4.7	57
22	Twist-two matrix elements at finite and infinite volume. Physical Review D, 2005, 71, .	4.7	53
23	Machine learning action parameters in lattice quantum chromodynamics. Physical Review D, 2018, 97, .	4.7	50
24	Nuclear correlation functions in lattice QCD. Physical Review D, 2013, 87, .	4.7	49
25	Isotensor Axial Polarizability and Lattice QCD Input for Nuclear Double- $\langle \mathbb{1}^2 \rangle$ Decay Phenomenology. Physical Review Letters, 2017, 119, 062003.	7.8	49
26	B potentials in quenched lattice QCD. Physical Review D, 2007, 76, .	4.7	48
27	Baryon-baryon interactions and spin-flavor symmetry from lattice quantum chromodynamics. Physical Review D, 2017, 96, .	4.7	48
28	Double- $\langle \mathbb{1}^2 \rangle$ decay matrix elements from lattice quantum chromodynamics. Physical Review D, 2017, 96, .	4.7	47
29	n identical bosons in a finite volume at $O(3)$ $\langle \mathbb{1} \rangle$ stretchy="false"> L \hat{a}^2 7	4.7	46
30	Scalar, Axial, and Tensor Interactions of Light Nuclei from Lattice QCD. Physical Review Letters, 2018, 120, 152002.	7.8	41
31	Lattice QCD and neutrino-nucleus scattering. European Physical Journal A, 2019, 55, 1.	2.5	41
32	Nuclear matrix elements from lattice QCD for electroweak and beyond-Standard-Model processes. Physics Reports, 2021, 900, 1-74.	25.6	39
33	Status and future perspectives for lattice gauge theory calculations to the exascale and beyond. European Physical Journal A, 2019, 55, 1.	2.5	37
34	$\langle \mathbb{1}^2 \rangle$ form factors and differential branching fraction from lattice QCD. Physical Review D, 2013, 87, .	4.7	33
35	First lattice QCD study of the gluonic structure of light nuclei. Physical Review D, 2017, 96, .	4.7	31
36	Short-Range Correlations and the EMC Effect in Effective Field Theory. Physical Review Letters, 2017, 119, 262502.	7.8	30

#	ARTICLE	IF	CITATIONS
73	Multi-hadron systems in lattice QCD. European Physical Journal A, 2013, 49, 1.	2.5	2
74	Baryon magnetic moments: Symmetries and relations. EPJ Web of Conferences, 2018, 175, 06001.	0.3	1
75	The EMC effect in effective field theory. AIP Conference Proceedings, 2005, , .	0.4	0
76	Evidence for a bound H-dibaryon using lattice QCD. , 2012, , .		0
77	Lattice QCD for nuclear physics. , 2013, , .		0