

Petros Dimopoulos

List of Publications by Year in descending order

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66
papers

2,933
citations

218381

26
h-index

161609

54
g-index

71
all docs

71
docs citations

71
times ranked

2005
citing authors

#	ARTICLE	IF	CITATIONS
1	FLAG Review 2019. European Physical Journal C, 2020, 80, 1.	1.4	486
2	Review of lattice results concerning low-energy particle physics. European Physical Journal C, 2017, 77, 112.	1.4	439
3	Dynamical twisted mass fermions with light quarks: simulation and analysis details. Computer Physics Communications, 2008, 179, 695-715.	3.0	135
4	Up, down, strange and charm quark masses with $\langle \overline{N} \rangle = \langle \overline{m} \rangle \langle N \rangle$ mass lattice QCD. Nuclear Physics B, 2014, 887, 19-68.	0.9	133
5	Dynamical twisted mass fermions with light quarks. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2007, 650, 304-311.	1.5	121
6	Nucleon and pion structure with lattice QCD simulations at physical value of the pion mass. Physical Review D, 2015, 92, .	1.6	115
7	Light meson physics from maximally twisted mass lattice QCD. Journal of High Energy Physics, 2010, 2010, 1.	1.6	103
8	Non-perturbative renormalization of quark bilinear operators with $N_f = 2$ (tmQCD) Wilson fermions and the tree-level improved gauge action. Journal of High Energy Physics, 2010, 2010, 1.	1.6	88
9	Leptonic decay constants $\langle \overline{f} K \rangle$ $\langle \overline{f} D \rangle$ and $\langle \overline{f} D \rangle$ B-physics from $N_f = 2$ tmQCD: the Standard Model and beyond. Journal of High Energy Physics, 2014, 2014, 1.	1.6	79
10	B-physics from $N_f = 2$ tmQCD: the Standard Model and beyond. Journal of High Energy Physics, 2014, 2014, 1.	1.6	70
11	Light baryon masses with dynamical twisted mass fermions. Physical Review D, 2008, 78, .	1.6	62
12	Simulating twisted mass fermions at physical light, strange, and charm quark masses. Physical Review D, 2018, 98, .	1.6	58
13	Average up/down, strange, and charm quark masses with $N_f=2$ twisted-mass lattice QCD. Physical Review D, 2010, 82, .	1.6	56
14	Lattice QCD determination of m_b , f_B and f_{B_s} with twisted mass Wilson fermions. Journal of High Energy Physics, 2012, 2012, 1.	1.6	53
15	$\langle \overline{S} \rangle$ parameters in the standard model and beyond from Wilson twisted mass fermions at maximal twist. Physical Review D, 2015, 92, .	1.6	53
16	Isospin breaking effects due to the up-down mass difference in lattice QCD. Journal of High Energy Physics, 2012, 2012, 1.	1.6	51
17	First physics results at the physical pion mass from $\langle \overline{N} \rangle = \langle \overline{m} \rangle \langle N \rangle$ Wilson twisted mass fermions at maximal twist. Physical Review D, 2017, 95, .	1.6	44
18	A proposal for B-physics on current lattices. Journal of High Energy Physics, 2010, 2010, 1.	1.6	43

#	ARTICLE	IF	CITATIONS
19	Pseudoscalar decay constants of kaon and D -mesons from $N_f=2$ twisted mass Lattice QCD. Journal of High Energy Physics, 2009, 2009, 043-043. Mass of the quark and meson	1.6	40
20	quark and meson decay constants from $N_f=2$ twisted mass Lattice QCD. Physical Review D, 2017, 95, .	1.6	37
21	Nucleon scalar and tensor charges using lattice QCD simulations at the physical value of the pion mass. Physical Review D, 2017, 95, .	1.6	37
22	Isospin-0 s-wave scattering length from twisted mass lattice QCD. Physical Review D, 2017, 96, .	1.6	35
23	Nucleon axial and pseudoscalar form factors from lattice QCD at the physical point. Physical Review D, 2021, 103, .	1.6	35
24	Moments of nucleon generalized parton distributions from lattice QCD simulations at physical pion mass. Physical Review D, 2020, 101, .	1.6	32
25	Lattice evidence for gauge field localization on a D3-brane. Nuclear Physics B, 2001, 617, 237-252.	0.9	30
26	A precise determination of β in quenched QCD. Nuclear Physics B, 2006, 749, 69-108.	0.9	26
27	Quark masses and pseudoscalar decay constants from $N_f=2$ lattice QCD with twisted mass fermions. Journal of High Energy Physics, 2008, 2008, 020-020.	1.6	26
28	Quark masses using twisted-mass fermion gauge ensembles. Physical Review D, 2021, 104, .	1.6	22
29	KAON MIXING BEYOND THE SM FROM $N_f=2$ TMCQCD AND MODEL INDEPENDENT CONSTRAINTS FROM THE UTA. Journal of High Energy Physics, 2013, 2013, 1.	1.6	21
30	Contribution to understanding the phase structure of strong interaction matter: Lee-Yang edge singularities from lattice QCD. Physical Review D, 2022, 105, .	1.6	20
31	Slow dynamics in the three-dimensional goniherdic model. Physical Review E, 2002, 66, 056112.	0.8	19
32	Light quark masses and pseudoscalar decay constants from $N_f=2$ lattice QCD with twisted mass fermions. Journal of High Energy Physics, 2008, 2008, 020-020.	1.6	19
33	Quark masses using twisted-mass fermion gauge ensembles. Physical Review D, 2021, 104, .	1.6	19
34	Kaon mixing beyond the SM from $N_f=2$ tmQCD and model independent constraints from the UTA. Journal of High Energy Physics, 2013, 2013, 1.	1.6	18
35	Pion vector form factor from lattice QCD at the physical point. Physical Review D, 2018, 97, .	1.6	18
36	4-dimensional layer phase as a gauge field localization: Extensive study of the 5-dimensional anisotropic U(1) gauge model on the lattice. Physical Review D, 2006, 74, .	1.6	16

#	ARTICLE	IF	CITATIONS
37	Phase structure of the 5D abelian Higgs model with anisotropic couplings. Journal of High Energy Physics, 2001, 2001, 005-005.	1.6	15
38	Phase diagram for the anisotropic SU(2) adjoint Higgs model in 5D: Lattice evidence for layered structure. Physical Review D, 2002, 65, .	1.6	15
39	Topological susceptibility and $\hat{\chi}^2$ meson mass from $N_f=2$ lattice QCD at the physical point. Physical Review D, 2019, 99, .	1.6	13
40	Three-dimensional lattice U(1) gauge-Higgs model at low m_H . European Physical Journal C, 1998, 1, 711-719.	1.4	12
41	Flavour symmetry restoration and kaon weak matrix elements in quenched twisted mass QCD. Nuclear Physics B, 2007, 776, 258-285.	0.9	12
42	Ratio of kaon and pion leptonic decay constants with $N_f=2$ Wilson-clover twisted-mass fermions. Physical Review D, 2021, 104, .	1.6	12
43	Layered Higgs phase as a possible field localization on a brane. Physical Review D, 2004, 70, .	1.6	10
44	Non-perturbative renormalisation of $F=2$ four-fermion operators in two-flavour QCD. Journal of High Energy Physics, 2008, 2008, 065-065.	1.6	10
45	Net-baryon Number Fluctuations. Acta Physica Polonica B, Proceedings Supplement, 2021, 14, 241.	0.0	9
46	Multi-layer structure in the strongly coupled 5D abelian Higgs model. European Physical Journal C, 2002, 24, 287-296.	1.4	8
47	Non-perturbative renormalisation of left four-fermion operators with Neuberger fermions. Physics Letters, Section B: Nuclear, Elementary Particle and High-Energy Physics, 2006, 641, 118-124.	1.5	8
48	BK from twisted mass QCD. Nuclear Physics, Section B, Proceedings Supplements, 2004, 129-130, 308-310.	0.5	6
49	QuenchedBK-parameter from Osterwalder-Seiler tmQCD quarks and mass-splitting discretization effects. Journal of High Energy Physics, 2009, 2009, 007-007.	1.6	5
50	Quark masses and decay constants in $N_f=2+1+1$ isoQCD with Wilson clover twisted mass fermions. , 2020, , .		5
51	Perturbative renormalization factors and $O(a^2)$ corrections for lattice four-fermion operators with improved fermion/gluon actions. Physical Review D, 2011, 83, .	1.6	4
52	Non-perturbative renormalisation and running of BSM four-quark operators in $N_f=2$ QCD. European Physical Journal C, 2018, 78, 1.	1.4	4
53	Dynamical Generation of Elementary Fermion Mass: First Lattice Evidence. Physical Review Letters, 2019, 123, 061802.	2.9	4
54	Precision computation of BK in quenched lattice QCD. Nuclear Physics, Section B, Proceedings Supplements, 2005, 140, 362-364.	0.5	3

#	ARTICLE	IF	CITATIONS
55	Simulation of an ensemble of $N_f = 2 + 1 + 1$ twisted mass cloverimproved fermions at physical quark masses. EPJ Web of Conferences, 2018, 175, 02003.	0.1	3
56	Decoupling of layers in the three-dimensional Abelian Higgs model. Physical Review D, 2001, 63, .	1.6	2
57	$\langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msup} \langle \text{mml:mi} \rangle K \langle \text{mml:mi} \rangle \langle \text{mml:mo} \rangle ^* \langle \text{mml:mo} \rangle \langle \text{mml:msup} \langle \text{mml:math} \rangle \text{vector and tensor couplings from} \langle \text{mml:math xmlns:mml="http://www.w3.org/1998/Math/MathML" display="inline"} \langle \text{mml:msub} \langle \text{mml:mi} \rangle N \langle \text{mml:mi} \rangle \langle \text{mml:mi} \rangle f \langle \text{mml:mi} \rangle \langle \text{mml:msub} \langle \text{mml:mo} \rangle = \langle \text{mml:mo} \rangle \langle \text{mml:mn} \rangle 2 \langle \text{mml:mn} \rangle \text{mass QCD. Physical Review D, 2011, 84, .}$	1.6	2
58	Testing a non-perturbative mechanism for elementary fermion mass generation: lattice setup. EPJ Web of Conferences, 2018, 175, 08009.	0.1	2
59	Testing a non-perturbative mechanism for elementary fermion mass generation: numerical results. EPJ Web of Conferences, 2018, 175, 08008.	0.1	2
60	Three-dimensional gonihedric Potts model. Physics Letters, Section A: General, Atomic and Solid State Physics, 2003, 318, 499-505.	0.9	1
61	Heavy flavour precision physics from $N_f=2+1+1$ lattice simulations. Nuclear and Particle Physics Proceedings, 2016, 273-275, 1638-1644.	0.2	1
62	Nucleon and pion structure with lattice QCD simulations at physical value of the pion mass. , 0, .		1
63	Updated results from maximally twisted mass QCD at the physical point. , 2015, , .		1
64	Isospin-0 $\pi\pi$ scattering from twisted mass lattice QCD. , 2017, , .		1
65	Branes in the 5D Abelian Higgs Model. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 950-952.	0.5	0
66	Multi-Layer structure in the strongly coupled 5D Abelian Higgs model. Nuclear Physics, Section B, Proceedings Supplements, 2002, 106-107, 956-958.	0.5	0